

Elektrotechnický ústav SAV, v. v. i.



**Výročná správa o činnosti a hospodárení
za rok 2024**

Bratislava
február 2025

Obsah

ČASŤ A

Výročná správa o činnosti organizácie za rok 2024

1. Základné údaje o organizácii
2. Vedecko-výskumná činnosť – projekty, výsledky
3. Medzinárodná vedecká spolupráca
4. Aplikácia výsledkov výskumu v praxi
5. Doktorandské štúdium a pedagogická činnosť
6. Zmluvná spolupráca s univerzitami/vysokými školami a inými subjektmi vedy a výskumu
7. Vedecko-organizačné a popularizačné aktivity
8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné inštitúcie
9. Aktivity v orgánoch SAV
10. Starostlivosť o ľudské zdroje, rodovú rovnosť, pracovné a sociálne podmienky zamestnancov a uplatňovanie ich práv
11. Orgány v. v. i., ich skladba a činnosť, štrukturálne, organizačné a právne zmeny v organizácii
12. Činnosť knižnično-informačného pracoviska organizácie
13. Nadácie a fondy pri organizácii
14. Realizácia Koncepcie dlhodobého rozvoja a Akčného plánu organizácie
15. Iné významné činnosti organizácie
16. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám
17. Problémy organizácie a podnety pre Predsedníctvo SAV k činnosti SAV ako celku
18. Vyjadrenia vedeckej rady organizácie k výsledkom výskumnej činnosti za uplynulý rok

PRÍLOHY K ČASTI A

A-1 Zoznam zamestnancov a doktorandov organizácie k 31.12.2024

A-2 Projekty riešené v organizácii

A-3 Publikačná činnosť organizácie

A-4 Údaje o pedagogickej činnosti organizácie

A-5 Medzinárodná mobilita organizácie

A-6 Vedecko-popularizačná činnosť pracovníkov organizácie

A-7 Vyznamenania, ceny a iné ocenenia udelené organizácii a jej pracovníkom

ČASŤ B

Výročná správa o hospodárení organizácie za rok 2024

19. Základné informácie o hospodárení organizácie
20. Prehľad príjmov a výdavkov
21. Pohyb a konečný stav majetku
22. Opatrenia na odstránenie nedostatkov v hospodárení a správa o plnení opatrení prijatých na odstránenie nedostatkov z predchádzajúceho roku
23. Ďalšie údaje o hospodárení organizácie

PRÍLOHY K ČASTI B

B-1 Ročná účtovná závierka

B-2 Správa štatutárneho audítora k ročnej účtovnej závierke

ČASŤ A

Elektrotechnický ústav SAV, v. v. i.

**Výročná správa o činnosti organizácie
za rok 2024**

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Elektrotechnický ústav SAV, v. v. i.

Riaditeľ: RNDr. Vladimír Cambel, DrSc.

1. zástupca riaditeľa: Ing. Milan Ťapajna, PhD.

2. zástupca riaditeľa: Ing. Ján Fedor, PhD

Vedecký tajomník: RNDr. Marianna Španková, PhD

Predseda správnej rady: RNDr. Vladimír Cambel, DrSc.

Predseda vedeckej rady: RNDr. Dagmar Gregušová, DrSc.

Predseda dozornej rady: prof., RNDr. Peter Samuely, DrSc.

Člen Snemu SAV: Ing. Milan Ťapajna, PhD.

Adresa: Dúbravská cesta 9, 841 04 Bratislava

<http://www.elu.sav.sk>

Tel.: 02/ 5922 2555

E-mail: elusav@savba.sk

Názvy a adresy organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

- **Oddelenie mikroelektroniky a senzoriky**
Vrbovská cesta 110, 921 01 Piešťany

Vedúci organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

- **Oddelenie mikroelektroniky a senzoriky**
Mgr. Bohumír Zaťko, PhD

Členovia Snemu SAV za organizačné zložky:

nie sú

Typ organizácie: Verejná výskumná inštitúcia od roku 2022

1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

Štruktúra zamestnancov	K	K		K do 35 rokov		F	P	T	O
		M	Ž	M	Ž				
Celkový počet zamestnancov	113	79	34	21	7	108	82.42	64.11	10.25
Vedeckí pracovníci	67	54	13	14	4	62	50.19	49.19	2
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹)	19	13	6	6	3	19	9.23	8.92	1.15
Odborní pracovníci VŠ (ostatní zamestnanci ²)	6	2	4	0	0	6	5	0.5	1
Odborní pracovníci ÚS	17	9	8	1	0	17	14	5.5	6.1
Ostatní pracovníci	4	1	3	0	0	4	4	0	0

¹ odmeňovaní podľa 553/2003 Z.z., príloha č. 5

² odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2024 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

F – fyzický stav zamestnancov k 31.12.2024 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

P – celoročný priemerný prepočítaný počet zamestnancov

T – celoročný priemerný prepočítaný počet riešiteľov projektov

O – celoročný priemerný prepočítaný počet obslužného personálu podieľajúceho sa na riešení projektov (technikov, laborantov, projektových manažérov a pod.) mimo zamestnancov v administratíve, správe a údržbe budov, upratovačiek, vodičov a pod.

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2024)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	9	43	0	4	9	28	17
Ženy	2	11	0	1	2	6	5

Tabuľka 1c Štruktúra pracovníkov podľa veku a rodu, ktorí sú riešiteľmi projektov

Veková štruktúra (roky)	< 31		31-35		36-40		41-45		46-50		51-55		56-60		61-65		> 65	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Muži	8	6.2	10	7.7	7	6.3	7	7.0	7	7.0	3	3.0	4	4.0	2	1.6	20	11.5
Ženy	3	1.2	3	2.1	1	1.0	3	3.0	0	0.0	1	1.0	1	1.0	1	1.0	5	3.8

A - Prepočet bez zohľadnenia úväzkov zamestnancov

B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2024

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	49.5	48.1	49.5
Ženy	52.4	47.1	47.4
Spolu	50.4	47.9	49.1

1.3. Iné dôležité informácie k základným údajom o organizácii a zmeny za posledné obdobie (v zameraní, v personálnej štruktúre a pod.)

2. Vedecko-výskumná činnosť – projekty, výsledky

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2024

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty VEGA	11	1	-	-	158562	158562	-	3975
2. Projekty APVV	10	7	-	-	272416	270866	-	109266
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	12	0	-	-	141949	151949	-	-
4. Projekty SASPRO, MoRePro, IMPULZ	2	0	52509	52509	-	-	-	-
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	7	0	29053	29053	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2024

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2024	Bratislava		3
2. Projekty výziev EŠIF podané r. 2024	Bratislava		
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2024

Tabuľka 2c Medzinárodné projekty riešené v roku 2024

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty Horizont 2020 a Horizont Európa	0	5	-	-	-	-	35940	197061
2. Projekty ERA.NET, ESA, JRP	1	0	-	-	23744	23744	-	-
3. Projekty COST	0	3	-	-	-	-	3500	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	1	4	-	-	-	-	30387	396939
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD, Mobility, Open Mobility	1	0	-	1500	-	-	-	-
7. Bilaterálne projekty ostatné	3	0	18999	18999	737237	737237	-	-
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	0	0	-	-	-	-	-	-
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	-	-	-	-	-	-
10. Iné projekty	0	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont Európa podané v roku 2024

Tabuľka 2d Počet projektov Horizont Európa v roku 2024

	A	B
Počet podaných projektov Horizont Európa		2

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe A-2.

2.2.3. Zámery na čerpanie Európskych štrukturálnych a investičných fondov v ďalších výzvach

2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2024

Slúži aj na výber výsledkov do výročnej správy SAV. Každý výsledok má byť charakterizovaný stručným, všeobecne zrozumiteľným popisom – maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF. Nadpis by mal vystihnúť prínos a význam výsledku – podľa možnosti by nemal byť zredukovaný na názov/nadpis publikačného výstupu.

2.3.1. Výsledky na báze základného výskumu

Názov: Sledovanie porúch v ultra-tenkých lítiom dopovaných vrstvách MoS₂

Riešitelia: J. Hrdá, M. Moško, I. Vojteková, L. Pribusová Slušná, P. Hutár, M. Precner, E. Dobročka, M. Španková, M. Hulman, Š. Chromik, Š., M. Sojková

Projekt: CEMEA ITMS 313021 T081, APVV-19-0365, APVV-21-0231, VEGA 2/0068/21, VEGA 2/0140/22

Molybdén disulfid (MoS₂) patrí medzi často študované materiály, pre jeho vrstevnatú štruktúru, výnimočné vlastnosti a použiteľnosť v elektronike, optoelektronike, či lítiových batériách. Vrstevnatá štruktúra MoS₂ umožňuje interkaláciu cudzích atómov do van der Waalsovského priestoru medzi vrstvami, čo môže ovplyvniť elektronickú štruktúru materiálu, ale aj elektrické či optické vlastnosti. V našej práci sme sa venovali interkalácii tenkých MoS₂ vrstiev lítiom, ktoré boli pripravené dvoma rôznymi technikami – teplotnou konverziou (TAC) a pulznou laserovou depozíciou (PLD). Ako zdroj lítia sme používali práškové Li₂S, ktoré sme spolu s práškovou sírou zahriali na vysokú teplotu. Lítium sa vďaka difúzii dostalo do priestoru medzi vrstvami MoS₂. Prítomnosť lítia vo vzorkách sme overili pomocou fotoelektrónovej spektroskopie. Výrazne štrukturálne zmeny, ani zmeny v optických vlastnostiach vrstiev sme po interkalácii nezaznamenali. Avšak elektrický odpor vzoriek s obsahom lítia výrazne narástol. Vďaka meraniu teplotnej závislosti odporu sme zistili, že transport nosičov v našich vrstvách najlepšie opisuje Efros-Shklovskiiho transport s premenlivou dĺžkou skoku. Takáto závislosť je typická pre poruchový polovodič. Keďže odpor vrstiev výrazne rástol so stúpajúcim obsahom lítia, môžeme konštatovať, že lítium zavádzalo do našich vrstiev nové poruchy, ktoré sa prejavili zvýšeným odporom a ak aj lítium dotovalo elektróny do MoS₂ vrstiev, tento efekt ostal skrytý v dôsledku prevládajúceho efektu porúch.

Publikácie:

HRDÁ, Jana** - MOŠKO, Martin - PÍŠ, I. - VOJTEKOVÁ, Tatiana - PRIBUSOVÁ SLUŠNÁ, Lenka - HUTÁR, Peter - PRECNER, Marián - DOBROČKA, Edmund - ŠPANKOVÁ, Marianna - HULMAN, Martin - CHROMIK, Štefan - ŠIFFALOVÍČ, Peter - BONDINO, F. - SOJKOVÁ, Michaela**. Investigating structural, optical, and electron-transport properties of lithium intercalated few-layer MoS₂ films: Unraveling the influence of disorder. In Applied Physics Letters, 2024, vol. 124, art. no. 123101. (2023: 3.5 - IF, Q2 - JCR, 0.976 - SJR, Q1 - SJR). ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0191046>

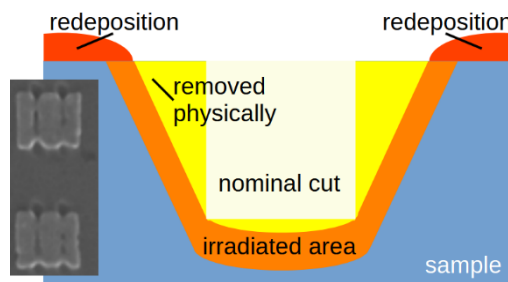
Názov: Magnetické nanoštruktúry s definovaným magnetickými stavmi pripravené pomocou fokusovaného iónového lúča

Riešitelia: S. Krylov, T. Kalmykova, T. Ščepka, V. Cambel, V.

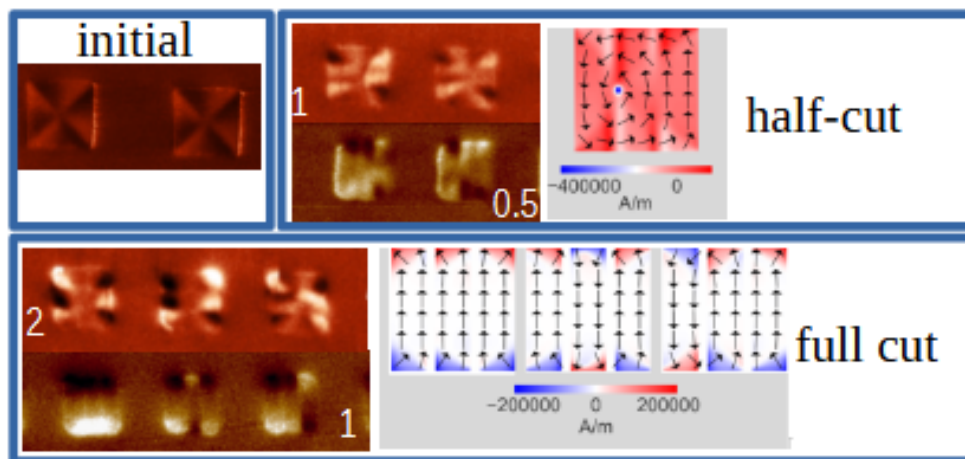
Projekt: Vega 2/0168/22, Plán obnovy No. 09I03-03-V01-00006, APVV 19-0311

Magnetické nanoštruktúry sú kľúčové pre moderné technológie vďaka ich potenciálu pre vysokú hustotu ukladania, rýchlu prevádzku a nízku spotrebu energie pri ukladaní a získavaní informácií. Ich výroba vyžaduje presnosť, pričom najpoužívanejšími metódami sú elektrónová lúčová litografia (EBL) a fokusovaný zväzok iónov (FIB).

FIB pracuje bombardovaním vzorky iónmi (Ga^+), aby odleptal materiál a vytvoril rezy. Kľúčové je minimalizovať dávku iónov, aby sa predišlo nadmernej implantácii Ga atómov, ktorá by mohla zhoršiť magnetické vlastnosti. Interakcie s iónovým lúčom však môžu spôsobiť miestne zahrievanie a redepozíciu atómov, čo vedie k nedokonalým rezom (obr. 1). Schéma ilustruje rôzne aspekty rezu (nie v mierke).



Na zmiernenie týchto problémov sme pridali vrstvu titánu medzi permalloy a substrát. Zaviedli sme aj inovatívne zníženie dávky iónov, pričom sme zohľadnili nemagnetický ožiarený priestor. „Magnetický“ rez zahŕňa nielen fyzicky odstránený materiál, ale aj nemagnetický ožiarený priestor.



Naša testovacia štruktúra obsahuje permalloyové štvorce s dvoma vertikálnymi rezmi. Magnetická izolácia, prechodom zo stavu kríža do jedného doménového stavu, naznačuje, že magnetický rez dosahuje alebo takmer dosahuje substrát. Obr. 2 zobrazuje vylepšený tvar rezu a takmer polovičnú dávku iónov potrebnú na prepnutie. Ukazuje počiatočný stav a štruktúru pred a po našich vylepšeniach, spolu s experimentálnymi dávkami a simuláciami, ktoré potvrdzujú dosiahnutie požadovaných výsledkov.

Publikácie:

KRYLOV, Sergei** – KALMYKOVA, Tetiana – ŠČEPKA, Tomáš – CAMBEL, Vladimír.
Magnetic nanostructures with defined magnetic states fabricated by focused ion beam. In Results in

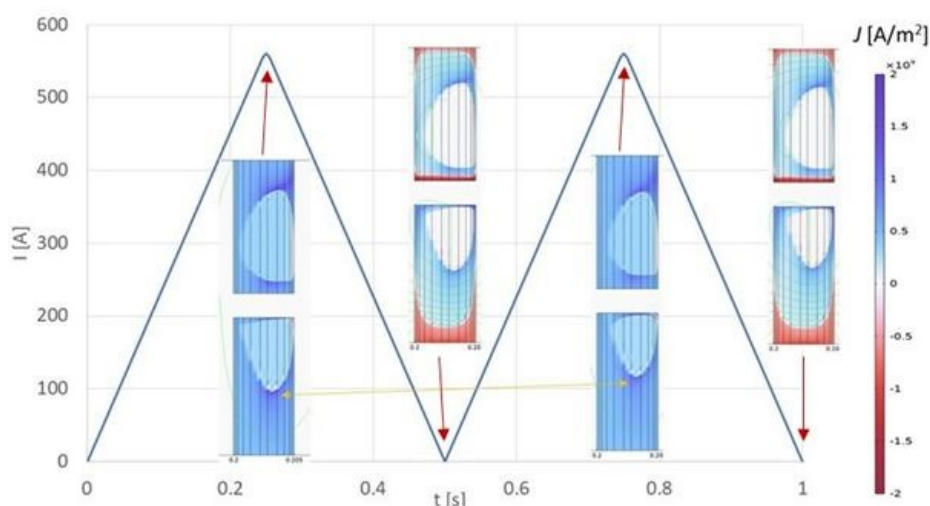
2.3.2. Výsledky aplikačného typu

Názov: Štúdia uskutočniteľnosti náhrady medeného vinutia elektromagnetu urýchľovača vodičom na báze vysokoteplotného supravodiča

Authori: F. Gömöry, M. Soloviov

Objednávateľ: GSI Darmstadt (Germany)

Elektromagnety používané v urýchľovači ťažkých iónov SIS-18 v GSI Darmstadt majú vinutia z kovových Cu drôtov. Pri vytváraní požadovaného magnetického poľa sa vodiče ohrievajú vďaka mechanizmu ohmických strát, čím významne prispievajú k spotrebe energie počas prevádzky. Túto časť prevádzkových nákladov v ostatnej dobe kriticky narástla, kvôli zvyšujúcim sa nákladom na elektrickú energiu. Uskutočnili sme teoretickú štúdiu zameranú na náhradu – pri dodržaní rovnakého počtu závitov a priebehu pulzu elektrického prúdu – Cu vinutia cievkou z vysokoteplotnej supravodivej pásky. V prvom kroku bol použitý zjednodušený semi-analytický prístup na identifikáciu vhodného rozsahu prevádzkových teplôt a predbežný odhad strát energie počas prúdovej rampy. Potom sa pre obmedzený súbor návrhov uskutočnil úplný teplotne závislý výpočet, so zahrnutím podrobnej charakterizácie transportnej schopnosti supravodivého materiálu. Zistili sme, že zjednodušený analytický prístup poskytuje správny návod na optimalizáciu usporiadania vinutia cievky.



Vypočítané rozloženia elektrického prúdu vo vinutí elektromagnetu počas trojuholníkového pulzu prúdu

Financie získané v roku 2024 sú 43 000 €.

Názov: Zmluva o spolupráci na výskumno-vývojovej úlohe, medzi Bizzcom s.r.o. a

Elektrotechnický ústav SAV v.v.i., pre projekt IPCEI s názvom Memristor technology R&D for industry

Riešitelia: B. Hudec, S. Krylov, M. Precner, T. Ščepka, T. Izsák, M. Horský, N. K. Calvo, A. Seifertová

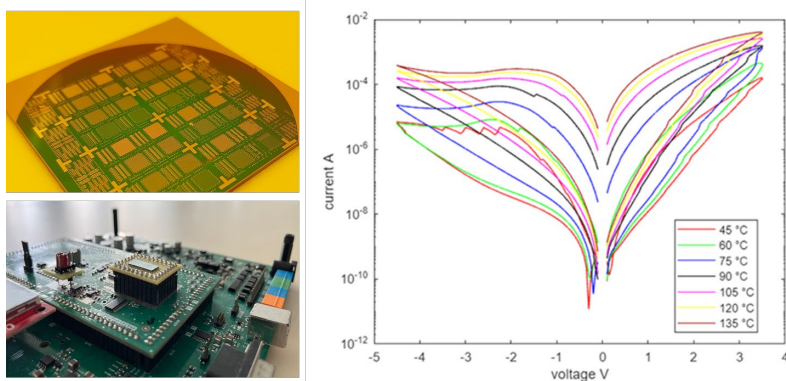
Zadávatel' výskumného kontraktu: Bizzcom s.r.o., Bučany, Slovensko

Bizzcom je riešiteľom IPCEI projektu (Important Projects of Common European Interest) s názvom „Memristor technology R&D for industry“. Projekt bol notifikovaný Európskou komisiou v júni 2023. Zmluva na financovanie projektu s MH SR nadobudla platnosť 1. decembra 2023. Plánom Zadávateľa je po ukončení tejto fázy projektu pokračovať v ďalších fázach projektu s cieľom naplniť všetky míľniky projektu a implementovať technológiu memristorov do industriálnych aplikácií.

Bizzcom realizuje výskumno-vývojové aktivity v spolupráci s priamymi aj nepriamymi partnermi projektu pre urýchlenie napredovania v problematike výroby memristorov a ich aplikácie do zložitejších štruktúr a obvodov pracujúcich s umelou inteligenciou a rôznymi logikami. Úlohou EIÚ SAV je zabezpečenie výroby funkčných memristorov, ich výroba vo forme priečných maticových štruktúr, ako aj charakterizácia, pričom EIÚ SAV zabezpečuje kvalitou výroby funkčnosť týchto prvkov, overenú následnou charakterizáciou v jednotlivých čiastkových úlohách.

Cieľom projektu ako celku je vývoj špičkovej AI technológie a riešení, ktoré majú obrovský potenciál priniesť výrazne zvýšenú efektivitu do umelej inteligencie a strojového učenia, čo má významný dopad na plnenie zelených a digitálnych cieľov Európskej únie.

Výroba memristorov a zložitejších priečných maticových štruktúr vyžaduje dlhodobé a praktické skúsenosti s výrobou mikroelektronických polovodičových prvkov na kremíkových substrátoch, konkrétne fyzikálnou depozíciou z pár, atomárnou depozíciou tenkých dielektrických vrstiev, reaktívnym iónovým leptaním, optickou litografiou a teplotným žihaním. Memristory je tiež potrebné charakterizovať elektrickými meraniami na potvrdenie funkčnosti a dosiahnutia elektrických výkonových parametrov.



Obr: Čip vyrobený EIÚ SAV s poliami analógových memristorov, nabondovaná vzorka v testovacej doske, a I-V charakteristiky memristorov v teplotnom rozsahu až do 135 °C.

Financie získané v roku 2024 sú 178 000 €.

2.3.3. Výsledky na báze medzinárodnej spolupráce

Názov: Nový softvér pre multi-fyzikálnu analýzu náhleho prechodu do normálneho stavu v magnetoach pre vysoké polia.

Autori: E. Pardo, A. Dadhich, A.K. Srivastava, A. Hussain

Projekt: Horizon2020: superEMFL, No. 951714, COST Hi-SCALE, No. CA19108

Elektromagnety z vysokoteplotných supravodičov (HTS) umožňujú dosiahnuť statické magnetické polia až 40 T. Dávajú tak možnosť merať kľúčové vlastnosti nových materiálov v mnohých oblastiach, od čistej energie po nové liečivá. Cieľom projektu superEMFL v rámci európskeho programu Horizon2020 je navrhnuť dva takéto magnety, generujúce pole 32 a 40 T. Konštrukcia magnetu je náročná kvôli vzájomnému pôsobeniu tieniacich prúdov, nárastu teploty a mechanického namáhania. Zohriatie spôsobené tieniacimi alebo radiálnymi prúdmi môže napríklad vyvolať elektrotepelný quench (náhly prechod do normálneho stavu), ktorý ďalej spôsobuje tepelné namáhanie. Magnetická analýza preto vyžaduje multifyzikálne modelovanie a výpočty musia byť čo najrýchlejšie pre ich využitie pri návrhu magnetov. Hoci 3D modelovanie poskytuje úplný popis, je časovo veľmi náročné. V tejto práci navrhujeme rýchlu a presnú dvojrozmernú metódu pre multifyzikálne modelovanie v priereze magnetu, umožňujúcu analýzu elektromagneticko-tepelnomechanického správania sa magnetu, zohľadňujúcu tieniace prúdy. Táto metóda prepája náš elektromagnetický softvér (MEMEP [1]) s metódou, ktorú sme vyvinuli, založenou na konečných

diferenciách [3]. Tento elektrotepelný model je jednosmerne spojený s mechanickým elastickým modelom [4]. Študujeme najmä účinky samoohrievania počas zmeny prúdu a elektrotepelného quenču v dôsledku poškodeného závitú, ktorý sa náhle objaví pri konštantnom prúde v magnetu. Výsledky porovnávame s modelmi používanými v ďalších výskumných skupinách zapojených do COST akcie Hi-SCALE. Naše výsledky ukazujú, že elektrotepelný quench sa šíri skôr elektromagneticky, zmenami v tieniacich prúdoch, než tepelnou difúziou. To spôsobuje rýchle šírenie sa quenču, v niektorých prípadoch trvajúce len niekoľko milisekúnd. Okrem toho analyzujeme zvýšenie mechanického napätia v dôsledku tieniacich prúdov a lokálneho namáhania spôsobeného tepelnou rozťažnosťou počas elektrotepelného quenču. Záverom možno povedať, že naša výpočtová metóda je vhodná pre multifyzikálny návrh magnetov s vysokým poľom.

Publikácie:

DADHICH, Anang** – GRILLI, F. – DENNIS, L. – VANDERHEYDEN, B. – GEUZAINÉ, C. – TRILLAUD, F. – SOTNIKOV, D. – SALMI, T. – HAJIRI, G. – BERGER, K. – BENKEL, T. – DOS SANTOS, G. – DOS SANTOS, B.M.O. – MARTINS, F.G.R. – HUSSAIN, Arif – PARDO, Enric. Electromagnetic-thermal modeling of high-temperature superconducting coils with homogenized method and different formulations: a benchmark. In Superconductor Science and Technology, 2024, vol. 37, no. 125006. (2023: 3.7 – IF, Q2 – JCR, 1.056 – SJR, Q1 – SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad8315> Typ: ADCA

DADHICH, Anang** – FAZILLEAU, P. – PARDO, Enric. A novel and fast electromagnetic and electrothermal software for quench analysis of high field magnets. In Superconductor Science and Technology, 2024, vol. 37, no. 095024. (2023: 3.7 – IF, Q2 – JCR, 1.056 – SJR, Q1 – SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad68d3> Typ: ADCA

PARDO, Enric** – FAZILLEAU, P. Fast and accurate electromagnetic modeling of non-insulated and metal-insulated REBCO magnets. In Superconductor Science and Technology, 2024, vol. 37, art. no. 035016. (2023: 3.7 – IF, Q2 – JCR, 1.056 – SJR, Q1 – SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad1c6f> Typ: ADCA

SRIIVASTAVA, Arpit Kumar** – PARDO, Enric. Modelling the mechanics of 32 T REBCO superconductor magnet using numerical simulation. In Superconductor Science and Technology, 2024, vol. 37, no. 075014. (2023: 3.7 – IF, Q2 – JCR, 1.056 – SJR, Q1 – SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad4a34> Typ: ADCA

2.4. Publikačná činnosť (zoznam je uvedený v prílohe A-3)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2024/ doplnky z r. 2023
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	0 / 0
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	0 / 0
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	0 / 0
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	0 / 0
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	0 / 0
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	0 / 0
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	0 / 0
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	0 / 0
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	49 / 1
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	18 / 2
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	0 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	0 / 0
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	0 / 0
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	0 / 0
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	8 / 0
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	1 / 0
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	0
18. Ostatné vydané periodiká	0
19. Zostavovateľské práce knižného charakteru (FAI)	0 / 0
20. Preklady vedeckých a odborných textov (EAJ)	0 / 0
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)	0 / 0
22. Recenzie v časopisoch a zborníkoch (EDI)	0 / 0

Evidujú sa len tie práce zamestnancov a doktorandov, v ktorých je uvedená afiliácia k organizácii

Tabuľka 2f Štatistika vedeckých prác podľa kvartilů vedeckého časopisu

Kvartil vedeckého časopisu	Q1	Q2	Q3	Q4	Spolu
Podľa IF z r. 2023 (zdroj JCR) <i>Počet článkov / doplnky</i>	14 / 0	24 / 0	15 / 0	1 / 1	54 / 1
Podľa SJR z r. 2023 (zdroj Scimago) <i>Počet článkov / doplnky</i>	31 / 0	22 / 0	1 / 1	13 / 2	67 / 3

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2023/ doplnky z r. 2022
Citácie vo WOS (1.1, 2.1)	1450 / 30
Citácie v SCOPUS (1.2, 2.2)	174 / 18
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	1 / 1
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	47
Prednášky a vývesky na národných vedeckých podujatiach	17

2.6. Vyžiadané prednášky

Ak boli príspevky publikované, sú súčasťou prílohy A-3, kategória (AFC, AFD, AFE, AFF, AFG, AFH)

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

- Gömöry, F. and Solovyov, M.: Voltage signals on terminations of an HTS magnet modelled in T-A formulation. In: 9th Inter. Workshop on Numerical Modell. of High Temp. Supercondu. 2024. Bad Zurzach 2024.
- Gucmann, F., Ťapajna, M., Hušeková, K., Dobročka, E., Rosová, A., Nádaždy, P., Eliáš, P., Egyenes, F., Hrubíšák, F., Chouhan, H., Keshtkar, J., Zheng, X., Pomeroy, J.W., Kuball, M., Xiao, X., Mao, Y., Meng, B., Ma, G., and Yuan, C.: Thermal properties of Ga₂O₃ thin films and devices prepared on sapphire and SiC substrates by liquid-injection MOCVD. In SPIE Photonics West, Oxide-Based Materials and Devices XV. San Francisco 2024.
- Gucmann, F., Hušeková, K., Rosová, A., Dobročka, E., Egyenes, F., Hrubíšák, F., Keshtkar, J., Chouhan, H., Krettová, M., Eliáš, P., Nádaždy, P., Gregušová, D., Pohorelec, O., Kozak, A., and Ťapajna, M.: Gallium oxide for applications in electronics and optics. In 23rd Slovak-Czech-Polish Optical Conf. Wave and Quantum Aspects Contemp. Optics. Štrbské Pleso 2024.
- Chromik, Š., Španková, M., Rosová, A., Dobročka, E., Gregor, M., Hrdá, J., Talacko, M., Cordier, Y., Pécz, B., and Giannazzo, F.: Certain challenges in the preparation and characterization of 2D MoS₂ films on wide bandgap semiconductor substrates. In: 14th Inter. Conf. Solid State Surfaces Interfaces Conf. - SSSI 2024. Smolenice.
- Pardo, E. Hussain, A., Dadhich, A., Kováč, J., Kopera, L., Grilli, F., Berberich, E., Wolfsaedler, S., and Reis, T.: AC loss and stability in the REBCO stator of superconducting

motors for hydrogen-electric airplanes. In: Inter. Conf. Supercond. Novel Magnetism - ICSM 2024. Fethiye (Turecko) 2024.

6. Pardo, E., Dadhich, A., Srivastava, A.K., Fazilleau, P., Jerance, N., Varney, A., and Ball, S.: Multi-physics modeling of metal-insulated REBCO magnets with screening currents. In: 9th Inter. Workshop on Numerical Modell. of High Temp. Supercondu. 2024. Bad Zurzach 2024.
7. Denis, L., Pardo, E., Dadhich, A., Trillaud, F., Vanderheyden, B., and Geuzaine, C.: Numerical considerations for coupled magneto-thermal FE models of HTS tapes. In: 9th Inter. Workshop on Numerical Modell. of High Temp. Supercondu. 2024. Bad Zurzach 2024.
8. Skákalová, V., Kotrusz, P., Mustonen, K., Bui, A.T., Precner, M., Hutár, P., Hulman, M., Orendáč, M., and Gmitra, M.: Two-dimensional magnetic metal-iodides encapsulated in graphene. In: 9th Polish Conf. Graphene and other 2D Mater. Poznań 2024.
9. Skákalová, V., Kotrusz, P., Mustonen, K., Bui, A.T., Precner, M., Hutár, P., Orendáč, M., and Gmitra, M.: Two-dimensional magnets synthesized in graphene oxide under ambient conditions. In: Advanced Energy Materials - AEM 2024. London 2024.
10. Skákalová, V., Kotrusz, P., Mustonen, K., Bui, A.T., Precner, M., Hutár, P., Hulman, M., Orendáč, M., and Gmitra, M.: Novel two-dimensional materials synthesized in graphene oxide under ambient conditions. In: Central European Material Research Day. Linz 2024.
11. Tóbbik, J., Feilhauer, J., Šoltýs, J., Ščepka, T., Krylov, S., Cambel, V., and Mruczkiewicz, M.: Towards magnetically ordered artificial spin crystals. In: IEEE 14th Inter. Conf. Nanomater.: Appl. & Propert. IEEE NAP-2024. Riga 2024.
12. Varga, M.: Tailoring 3D diamond and 2D transition metal dichalcogenides for functional heterostructures. In: 8th Annual Inter. Nanotechnol. Conf. on Functional Nanomater. Nanodev. 2024 (NANOMAT2024). Vienna 2024.

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

1. Guemann, F., Hušková, K., Rosová, A., Dobročka, E., Egyenes, F., Hrubíšák, F., Keshtkar, J., Chouhan, H., Krettová, M., Eliáš, P., Nádaždy, P., Gregušová, D., Pohorelec, O., Kozak, A., and Ťapajna, M.: Gallium oxide for applications in electronics and optoelectronics. In ADEPT 2024. Nový Smokovec.
2. Ťapajna, M.: GaN heteroštruktúrne tranzistory pre mikrovlnné a výkonové aplikácie. In: 3. letná škola fyziky kond. látok. Lipt. Ján 2024.
3. Tóbbik, J.: Úvod do mikromagnetizmu. In: 3. letná škola fyziky kond. látok. Lipt. Ján 2024.

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

1. Gömöry, F., Solovyov, M., Frolek, L., Ries, R., Šouc, J., Hintze, C., Landvogt, S., Christensen, J.J., Bahl, C., Jorgensen, N.O., and Wulff, A.C.: AC losses in filamentized REBCO tapes. In: Lawrence Berkeley National Laboratory. Berkeley, USA 2024.
2. Guemann, F.: Benefits and challenges of gallium oxide heteroepitaxy. In: GOOD seminar series, Strathclyde University (online) 2024.
3. Hudec, B.: In-sensor computing as a new paradigm for smart sensors. In: National Yang-Ming Chiao Tung University. NYCU, Hsinchu, Taiwan R.O.C. 2024.

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2024

2.7.1. Vynálezy, na ktoré bol v roku 2024 udelený patent

a) na Slovensku

Názov vynálezu: Spôsob prípravy kanálov s potlačenou supravodivosťou v YBa₂Cu₃O_{7-x} mikropáske s využitím skenovania elektrónovým lúčom

Číslo patentu: 289265

Dátum udelenia: 10.10.2024

Majiteľ / spolumajiteľ: Elektrotechnický ústav SAV, v.v.i., B.G. Negev Technologies and Applications Ltd.

Pôvodcovia vynálezu: Chromik Štefan, Talacko Marcel, Španková Marianna, G. Jung

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2024

a) na Slovensku

b) v iných krajinách ako prioritná prihláška

c) PCT

d) EP

Názov vynálezu: Method for depositing two-dimensional layered heterostructures on a substrate

Krajina: Slovensko

Číslo prihlášky: EP24195344.7

Dátum priority: 26.8.2024

Majiteľ / spolumajiteľ: Elektrotechnický ústav SAV, v.v.i.

Pôvodcovia vynálezu: Skákalová Viera, Kotrusz Peter, Hulman Martin, K. Bernáth

Názov vynálezu: Stereolithography module for vacuum systems

Krajina: Slovensko

Číslo prihlášky: EP 50038-2023

Dátum priority: 2024

Majiteľ / spolumajiteľ: Elektrotechnický ústav SAV, v.v.i., Bizzcom s.r.o.

Pôvodcovia vynálezu: Hudec Boris, Gucmann Filip, Ľapajna Milan, KURBEL, M. - ZELENAY, M.

e) v iných krajinách v rámci tzv. národnej fázy po PCT, resp. po validácii EP

2.7.3. Úžitkové vzory na Slovensku

a) prihlásené v roku 2024

b) udelené v roku 2024

Názov UV: Stereolitografický modul pre vákuové komory

Číslo UV: 9992

Dátum udelenia: 13.3.2024

Majiteľ / spolumajiteľ UV: Elektrotechnický ústav SAV, v.v.i., Bizzcom s.r.o.
 Pôvodcovia UV: Hudec Boris, Gucmann Filip, Ťapajna Milan, M. Kurbel, M. Zelenay

2.7.4. Realizované vynálezy

a) predané patenty resp. prihlášky vynálezov (v prípade úplnej zmeny majiteľa patentu)

b) predané licencie (v prípade že majiteľom ostáva organizácia SAV)

Finančný prínos pre organizáciu SAV v roku 2024 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

2.8. Účast' expertov na hodnotení národných projektov (APVV, VEGA a iných)

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Gucmann Filip	VEGA	1
Haščík Štefan	VEGA	1
Moško Martin	VEGA	1
Sojková Michaela	VEGA	1
Šoltýs Ján	VEGA	1
Ťapajna Milan	KEGA	1
	Mladý FEI STU	1
Tóbbik Jaroslav	VEGA	2

2.9. Účast' na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet vypracovaných recenzií na vedecké monografie, vedecké štúdie a zborníky

Meno pracovníka	Ved. monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Blaho Michal	0	0	1	0	0	1	0
Gömöry Fedor	0	0	15	0	0	0	0
Gregušová Dagmar	0	0	12	0	0	1	0
Gucmann Filip	0	0	13	0	0	1	0
Hulman Martin	0	0	6	0	0	0	0
Chromik Štefan	0	0	3	0	0	0	0
Izsák Tibor	0	0	4	0	0	0	0

Kozak Andrii	0	0	2	0	0	0	0
Kuzmík Ján	0	0	5	0	0	0	0
Osvald Jozef	0	0	2	0	0	0	0
Pohorelec Ondrej	0	0	1	0	0	0	0
Rosová Alica	0	0	3	0	0	0	0
Sojková Michaela	0	0	13	0	0	0	0
Soloviov Mykola	0	0	7	0	0	0	0
Stoklas Roman	0	0	0	0	0	2	0
Španková Marianna	0	0	11	0	0	0	0
Ťapajna Milan	0	0	18	0	0	1	0
Varga Marian	0	0	1	0	0	0	1
Zaťko Bohumír	0	0	10	0	0	1	0
Spolu	0	0	127	0	0	7	1

2.11. Iné informácie k vedecko-výskumnej činnosti.

3. Medzinárodná vedecká spolupráca

3.1. Medzinárodné vedecké podujatia

3.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2024 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

3.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2025 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

3.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 3a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Gömöry Fedor	1	0	1
Kuzmík Ján	1	0	0
Novák Jozef	2	0	1
Skákalová Viera	0	0	1
Vanko Gabriel	0	0	1
Spolu	4	0	4

3.2. Členstvo a funkcie v medzinárodných orgánoch

3.2.1. Členstvo a funkcie v medzinárodných vedeckých spoločnostiach, úniách a národných komitétach SR

doc. Ing. Fedor Gömöry, DrSc.

Applied Superconductivity Educational Foundation (ASEF) (funkcia: člen výboru)

Ing. Pavol Kováč, DrSc.

Academic Committee for International Congress on Advanced Materials (funkcia: člen)

3.3. Účasť expertov na hodnotení medzinárodných projektov (EÚ RP, ESF a iných)

Tabuľka 3b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Gucmann Filip	OPUS (Poľsko)	1
Ťapajna Milan	DFG (Nemecko)	1

3.4. Najvýznamnejšie prínosy MVTS ústavu vyplývajúce z mobility a riešenia medzinárodných projektov a iné informácie k medzinárodnej vedeckej spolupráci

V r. 2024 sme pokračovali v našej spolupráci so svetovým lídrom v oblasti polovodičov, s firmou Industrial Technology Research Institute, ITRI (Taiwan), na základe dokumentov podpísaných v r. 2023.

Prvý z nich, základný, bol podpísaný na Taiwane a hovorí o transfere know-how ohľadom testovania výkonových modulov a vzdelávaní v tejto oblasti ako aj o spolupráci na najbližšie 4 roky v oblasti výskumu a vývoja GaN a GaO technológií.

Druhý dokument, podpísaný v Bratislave, hovorí o konkrétnej finančnej podpore počas obdobia riešenia projektu. Celková výška podpory pre EIÚ SAV, v.v.i., je asi 2,7 mil. €. Na uvedenej spolupráci sa podieľa a zmluvu s ITRI podpísala aj STU v Bratislave. Toto je významný impulz na zlepšenie našej ďalšej spolupráce s STU a priemyselnými partnermi v oblasti návrhu, montáže a testovania výkonových modulov pre elektromobilitu (Smikron-Danfoss, ONSEMI, DELTA SK, Foxconn SK).

V samotnom r. 2024 sme rozbehli prerábanie laboratórií, v ktorých bude umiestnené nový tester a technológie zakúpené na základe uvedenej spolupráce. Zrealizovali sme všetky potrebné verejné obstarávania a zakúpili zariadenia v celkovej hodnote 2 mil. €, ukončenie obstarávania bude v r. 2025 dodávkou epitaxného zariadenia na GaO.

Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe A-5.

Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe A-2.

4. Aplikácia výsledkov výskumu v praxi

4.1. Výsledky výskumu organizácie aplikované v technologickej a všeobecnej spoločenskej praxi

4.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov/účel kontraktového výskumu: Superconducting (HTS) version of HEBT magnet

Zadávatel' výskumného kontraktu: GSI Darmstadt (Germany)

Začiatok spolupráce: 2023

Ukončenie spolupráce: 2024

Finančný prínos pre organizáciu (€): 43000

Názov/účel kontraktového výskumu: Zmluva o spolupráci na výskumno-vývojovej úlohe

Zadávatel' výskumného kontraktu: Bizzcom s.r.o.

Začiatok spolupráce: 2024

Ukončenie spolupráce: trvá

Finančný prínos pre organizáciu (€): 178000

Názov/účel kontraktového výskumu: Participation of IEE to CRYOPROP

Zadávatel' výskumného kontraktu: AIRBUS UpNext (France)

Začiatok spolupráce: 2024

Ukončenie spolupráce: 2025

Finančný prínos pre organizáciu (€): 0

4.3. Iné formy aplikácie výsledkov výskumu a využitia odbornosti

5. Doktorandské štúdium a pedagogická činnosť

5.1. Údaje o doktorandskom štúdiu

Tabuľka 5a Počet doktorandov v roku 2024

Forma	Počet k 31.12.2024				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2024					
	celkový počet		z toho novoprijatí				Ukončenie z dôvodov					
	M	Ž	M	Ž			ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Denná zo zdrojov SAV	5	2	0	1	4	1	1	0	1	0	0	1
Denná z iných zdrojov	2	0	0	0	4	1	2	1	0	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0	0	0
Spolu	7	2	0	1	8	2	3	1	1	0	0	1
Z toho zahraničných	4	1	0	0	3	1	1	0	1	0	0	1
Súhrn	9		1		10		4		1		1	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.
 Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v riadku „Súhrn“ vyjadruje celkový počet doktorandov (mužov a žien spolu), čiže je súčtom príslušných dvoch buniek z riadku „Spolu“. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2024 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.
 Pod predčasným ukončením rozumieme ukončenie bez obhajoby dizertačnej práce pričom doktorand neabsolvoval celú štandardnú dĺžku štúdia. Pod neúspešným ukončením rozumieme ukončenie bez úspešnej obhajoby dizertačnej práce, pričom študent absolvoval celú štandardnú dĺžku štúdia.

5.2. Zmena formy doktorandského štúdia

Tabuľka 5b Počty preradení z dennej formy na externú a z externej na dennú

Pôvodná forma	Denná z prostriedkov SAV	Denná z prostriedkov SAV	Denná z iných zdrojov	Denná z iných zdrojov	Externá	Externá
Nová forma	Denná z iných zdrojov	Externá	Denná z prostriedkov SAV	Externá	Denná z prostriedkov SAV	Denná z iných zdrojov
Počet	2	0	0	0	0	0

5.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 5c Menný zoznam ukončených doktorandov v roku 2024 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
Ing. Marek Búran	interné štúdium hradené z iných zdrojov	9 / 2019	2 / 2024		Ing. Pavol Kováč DrSc., Elektrotechnický ústav SAV, v. v. i.	
PhD. Sergei Krylov	interné štúdium hradené z prostriedkov SAV	9 / 2019	6 / 2024		RNDr. Vladimír Cambel DrSc., Elektrotechnický ústav SAV, v. v. i.	

5.4. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou v nadštandardnej dĺžke štúdia

Tabuľka 5d Menný zoznam ukončených doktorandov v roku 2024 úspešnou obhajobou v nadštandardnej dĺžke štúdia

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
Mgr. Jana Hrdá	interné štúdium hradené z iných zdrojov	9 / 2020	8 / 2024		Mgr. Michaela Sojková PhD., Elektrotechnický ústav SAV, v. v. i.	
Ing. Martin Kucharovič	interné štúdium hradené z iných zdrojov	9 / 2020	8 / 2024		Mgr. Mykola Soloviov PhD., Elektrotechnický ústav SAV, v. v. i.	

5.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 5e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2024 (obhajoba leto 2024)	z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)	z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu	z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu	z toho koľkí boli nejaký čas nezamestnaní
4	4	0	0	0

Číslo v prvom stĺpci musí byť súčtom čísel v stĺpcoch 2-4, pokiaľ je známe uplatnenie dočasne nezamestnaného absolventa/ky a bude zahrnutý do stĺpcov 2-4. Ak jeho/jej uplatnenie nie je známe, musí byť číslo v stĺpci 1 súčtom čísel v stĺpcoch 2-5

Zoznam interných a externých doktorandov je uvedený v prílohe A-1.

5.6. Medzinárodné doktorandské štúdium

Tabuľka 5f Počet študentov v medzinárodných programoch doktorandského štúdia a počet zahraničných doktorandov

Cotutelle	Co-direction	Iné	Zahraníční doktorandi štátne občianstvo/počet
0	0	0	IRN/4, PAK/2, IND/1, RUS/1

Zahraníční doktorandi sú doktorandi v dennej alebo externej forme štúdia, ktorí sú občanmi iných krajín. Doktorandi školení v rámci Cotutelle alebo Co-direction sa do posledného stĺpca nezapočítavajú.

5.7. Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením VŠ

Tabuľka 5g Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

Názov študijného odboru (ŠO)	Číslo ŠO	Názov doktorandského študijného programu	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
elektrotechnika	2675	Elektronika a fotonika	Fakulta elektrotechniky a informatiky STU
elektrotechnika	2675	Fyzikálne inžinierstvo	Fakulta elektrotechniky a informatiky STU
fyzika	1160	Fyzika kondenzovaných látok a akustika	Fakulta matematiky, fyziky a informatiky UK

Názov a číslo študijného odboru vyplňte/vyberte podľa aktuálne platného zoznamu študijných odborov <https://www.portalvs.sk/sk/studijne-odbory?from=menu1>. Názov doktorandského študijného programu v stĺpci 3 je potrebné vložiť ako voľný text.

Tabuľka 5h Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií pre doktorandské štúdium	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnotu alebo vyšší kvalifikačný stupeň
RNDr. Vladimír Cambel, DrSc. (elektronika)	doc. Ing. Fedor Gömöry, DrSc. (Elektrotechnická fakulta ŽU)	Ing. Marek Búran, PhD. (Iib)
doc. RNDr. Edmund Dobročka, CSc. (fyzikálne inžinierstvo)	doc. Ing. Fedor Gömöry, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	Mgr. Jana Hrdá, PhD. (Iib)
doc. Ing. Fedor Gömöry, DrSc. (fyzikálne inžinierstvo)	doc. Ing. Jozef Novák, DrSc. (Fakulta elektrotechniky a informatiky STU)	Sergei Krylov, PhD. (Iib)
RNDr. Dagmar Gregušová, DrSc. (elektrotechnika)	Ing. Milan Ťapajna, PhD. (Fakulta elektrotechniky a informatiky STU)	Ing. Martin Kucharovič, PhD. (Iib)
RNDr. Dagmar Gregušová, DrSc. (elektronika)		Ing. Marek Búran, PhD. (PhD., Fakulta elektrotechniky a informatiky STU)
Dr. rer. nat. Martin Hulman (fyzika)		Mgr. Jana Hrdá, PhD. (PhD., Fakulta elektrotechniky a informatiky STU)
Ing. Ján Kuzmík, DrSc. (teoretická elektrotechnika)		Sergei Krylov, PhD. (PhD., Fakulta matematiky, fyziky a informatiky UK)
Ing. Ján Kuzmík, DrSc. (elektronika)		Ing. Martin Kucharovič, PhD. (PhD., Fakulta elektrotechniky a informatiky STU)
doc. RNDr. Martin Moško, DrSc. (fyzika kondenzovaných látok a akustika)		

doc. RNDr. Martin Moško, DrSc. (chemická fyzika)		
doc. RNDr. Martin Moško, DrSc. (teoretická elektrotechnika)		
doc. RNDr. Martin Moško, DrSc. (fyzikálne inžinierstvo)		
doc. Ing. Jozef Novák, DrSc. (elektronika)		
Mgr. Enric Pardo, PhD. (fyzikálne inžinierstvo)		
RNDr. Marianna Španková, PhD (elektrotechnika)		
Ing. Milan Ťapajna, PhD. (elektronika)		
Ing. Gabriel Vanko, PhD. (elektronika)		

5.8. Údaje o pedagogickej činnosti

Tabuľka 5i Prednášky a cvičenia vedené v roku 2024

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	3	0	10	0
Celkový počet hodín v r. 2024	13	0	145	0

Prehľad prednášateľov predmetov a vedúcich cvičení, s uvedením názvu predmetu, úväzku, katedry, fakulty, univerzity/vysokej školy je uvedený v prílohe A-4.

Tabuľka 5j Aktivity pracovníkov na VŠ

1.	Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác	4
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	7
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	10
4.	Počet školených doktorandov (aj pre iné inštitúcie)	15
5.	Počet oponovaných dizertačných a habilitačných prác	1
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	1
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	0
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	4
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	0

5.9. Iné dôležité informácie k pedagogickej činnosti

- Ústav pozýva zahraničných ako aj domácich odborníkov, aby predstavili výsledky v rôznych oblastiach výskumu. V roku 2024 odzneli prednášky:
 - prof. Karol Kálna (Faculty Sci Engn., Swansea Univ., UK): Nanosheet Field-Effect Transistors For The Future Logic Architectures: Process Flow and Performance,
 - Marián Janík (Institute of Science and Technology Austria (ISTA), Vienna): Strong Charge-Photon Coupling in Quantum Dots by in situ Resistance Control of Granular Aluminium Superinductors,
 - Ing. Igora Lacík, DrSc. (Ústavu Polymérov SAV): Water-soluble polymers: synthesis and design of biomaterials.
- Dr. Martin Moško prednáškový kurz z Fyziky polovodičov a polovodičových súčiastok pre PhD študentov (od februára 2024, 13 prednášok)
- Ústav spolupracuje na výučbe predmetov Elektromagnetické prvky a systémy a Nanotechnológie na FEI STU a Praktikum z Fyziky kondenzovaných látok pre študentov FMFI UK (RNDr. D. Gregušová, DrSc., Ing. O. Pohorelec, PhD.)
- Ústav zamestnáva VŠ študentov formou formou Dohody o vykonaní práce. Ich práca často vyústi do prípravy semestrálnych, bakalárskych a diplomových prác. V r. 2024 ich bolo 21.
- V máji 2024 absolvovali niekoľkí študenti stredných škôl zo SPŠE K. Adlera , SPŠE Zochova na EIÚ SAV, v.v.i. pod vedením našich kolegov Ing. Ľ. Froleka, Ing. J. Kováča, PhD., Ing. M. Ťapajnu, PhD. a Ing. O. Pohorelca, PhD. odbornú prax stredoškôľakov.

6. Zmluvná spolupráca s univerzitami/vysokými školami a inými subjektmi vedy a výskumu

Pozn.: Uvádzajte formy spolupráce a aktivity, ktoré nie sú uvedené v kapitolách 2, 3, 4, 5.

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Fakulta elektrotechniky a informatiky STU

Oblasť spolupráce: Výchova študentov, spoločná príprava a riešenie projektov a aplikačných riešení

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 1969

Zhodnotenie: Výsledkom spolupráce sú spoločné projekty, publikácie a PhD študenti.

Názov univerzity/vysokej školy a fakulty: Fakulta matematiky, fyziky a informatiky UK

Oblasť spolupráce: Výchova študentov, spoločná príprava a riešenie projektov a aplikačný ch riešení

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 1992

Zhodnotenie: Výsledkom spolupráce sú spoločné projekty, publikácie a PhD študenti.

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.1.2. Spoločné pracoviská s inými organizáciami SAV

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.2. Spoločné pracoviská organizácie s inými inštitúciami mimo SAV a VŠ

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

Názov projektu: Perspektívne detektory ionizujúceho žiarenia pre nepokryté energetické okno neutrónov

Agentúra: APVV

číslo projektu: 22-0382

Spolupracujúce inštitúcie: FEI STU

Koordinátor projektu: EIÚ SAV

Začiatok spolupráce: 2023

Koniec spolupráce: 2027

Zhodnotenie:

Názov projektu: Optimalizácia okrúhleho kábla z vysokoteplotného supravodiča pre pulzné magnetické polia

Agentúra: APVV

číslo projektu: 20-0056

Spolupracujúce inštitúcie: Materiálovotechnologická fakulta STU

Koordinátor projektu: Materiálovotechnologická fakulta STU

Začiatok spolupráce: 2021

Koniec spolupráce: 2025

Zhodnotenie:

Názov projektu: CERBERUS – Farebné centrá v diamante – korelácia medzi atómovou štruktúrou a optoelektronickými vlastnosťami

Agentúra: APVV

číslo projektu: 23-0361

Spolupracujúce inštitúcie: Materiálovotechnologická fakulta STU Trnava

Koordinátor projektu: EIÚ SAV

Začiatok spolupráce: 2024

Koniec spolupráce: 2027

Zhodnotenie:

Názov projektu: Topologicky netriviálne magnetické a supravodivé nanoštruktúry

Agentúra: APVV

číslo projektu: 20-0425

Spolupracujúce inštitúcie: Prírodovedecká fakulta, UPJŠ

Koordinátor projektu: Prírodovedecká fakulta, UPJŠ

Začiatok spolupráce: 2021

Koniec spolupráce: 2024

Zhodnotenie:

Názov projektu: Nanoelsen – Nanoštrukturované tenkovrstvové materiály vyznačujúce sa slabými väzbovými interakciami pre elektronické a senzorické aplikácie

Agentúra: APVV

číslo projektu: 21-0278

Spolupracujúce inštitúcie: Ústav elektroniky a fotoniky FEI STU

Koordinátor projektu: Ústav elektroniky a fotoniky FEI STU

Začiatok spolupráce: 2022

Koniec spolupráce: 2026

Zhodnotenie:

Názov projektu: NanoMemb-RF – Moderné nanomembránové heteroštruktúry na báze GaAs pre vysoko produktívne vysokofrekvenčné prvky

Agentúra: APVV

číslo projektu: 21-0365

Spolupracujúce inštitúcie: Ústav elektroniky a fotoniky FEI STU

Koordinátor projektu: Ústav elektroniky a fotoniky FEI STU

Začiatok spolupráce: 2022

Koniec spolupráce: 2025

Zhodnotenie:

Názov projektu: PEGANEL – p-GaN elektronika pre úsporu energie a post-CMOS obvody

Agentúra: APVV

číslo projektu: 21-0008

Spolupracujúce inštitúcie: Ústav elektroniky a fotoniky FEI STU

Koordinátor projektu: EIÚ SAV

Začiatok spolupráce: 2022

Koniec spolupráce: 2025

Zhodnotenie:

Názov projektu: Fotonické laboratórium na čipe: výskum a vývoj platformy plazmonického senzora pre okamžitú detekciu zložiek v roztokoch

Agentúra: APVV

číslo projektu: 20-0437

Spolupracujúce inštitúcie: Ústav elektroniky a fotoniky FEI STU

Koordinátor projektu: Ústav elektroniky a fotoniky FEI STU

Začiatok spolupráce: 2021

Koniec spolupráce: 2024

Zhodnotenie:

Názov projektu: Transit2D – Tranzistory na báze 2D kovových chalkogenidov pripravených teplom podporovanou konverziou

Agentúra: APVV

číslo projektu: 21-0231

Spolupracujúce inštitúcie: Ústav elektroniky a fotoniky FEI STU

Koordinátor projektu: EIÚ SAV

Začiatok spolupráce: 2022

Koniec spolupráce: 2026

Zhodnotenie:

Názov projektu: Moderné elektronické súčiastky na báze ultraširokopásmového polovodiča Ga₂O₃ pre budúce vysokonapäťové aplikácie

Agentúra: APVV

číslo projektu: 20-0220

Spolupracujúce inštitúcie: Ústav elektroniky a fotoniky FEI STU, Materiálovotechnologická fakulta STU

Koordinátor projektu: EIÚ SAV
Začiatok spolupráce: 2021
Koniec spolupráce: 2025
Zhodnotenie:

Názov projektu: Perspektívne detektory ionizujúceho žiarenia pre nepokryté energetické okno neutrónov

Agentúra: APVV

číslo projektu: 22-0382

Spolupracujúce inštitúcie: Ústav jadrového a fyzikálneho inžinierstva FEI STU

Koordinátor projektu: EIÚ SAV

Začiatok spolupráce: 2023

Koniec spolupráce: 2027

Zhodnotenie:

Názov projektu: Nanooptické sondy a senzory integrované na optickom vlákne

Agentúra: APVV

číslo projektu: 20-0264

Spolupracujúce inštitúcie: Žilinská univerzita v Žiline

Koordinátor projektu: Žilinská univerzita v Žiline

Začiatok spolupráce: 2021

Koniec spolupráce: 2024

Zhodnotenie:

Pozn.: uviesť konkrétne spoločné aj bilaterálne projekty na základe platnej zmluvy o spolupráci

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

7. Vedecko-organizačné a popularizačné aktivity

7.1. Vedecko-popularizačná činnosť

Tabuľka 7a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	1	tlač	0	TV	0
rozhlas	0	internet	0	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	5				

7.2. Vedecko-organizačná činnosť

Tabuľka 7b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
-----------------	-------------------------	--------	---------------	---------------------

7.3. Účasť na výstavách

7.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 7c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Spolu			

7.5. Členstvo v redakčných radách časopisov

doc. Ing. Fedor Gömöry, DrSc.

Cryogenics (funkcia: člen)
 IEEE Transactions on Applied Superconductivity (funkcia: člen)
 Superconductivity (funkcia: člen)

RNDr. Dagmar Gregušová, DrSc.

Electronic Materials - mdpi (funkcia: člen)

Ing. Štefan Chromik, DrSc.

ICRN Condensed Matter Physics (funkcia: člen)

Ing. Pavol Kováč, DrSc.

Superconductor Science and Technology (funkcia: člen)

doc. Ing. Jozef Novák, DrSc.

Journal of Electrical Engineering (funkcia: člen)
 Material Science in Semiconductor Processing (funkcia: člen)

Ing. Jozef Osvald, DrSc.

Materials Science in Semiconductor Processing (funkcia: člen)

Mgr. Enric Pardo, PhD.

Scientific Reports (funkcia: člen)
 Superconductor Science and Technology (funkcia: člen)

Ing. Milan Ťapajna, PhD.

Semiconductor Science and Technology (funkcia: člen)

Ing. Jaroslav Tóbiš, PhD.

Scientific Reports (funkcia: člen)

7.6. Činnosť v domácich vedeckých spoločnostiach

7.7. Iné dôležité informácie o vedecko-organizačných a popularizačných aktivitách

V roku 2024 sme sa rozhodli sprofesionalizovať náš postup pri informovaní o novinkách ústavu. Uzavreli sme zmluvu s externou pracovníčkou, ktorá nám v tejto činnosti bude pomáhať. V zmysle odporúčaní PSAV ide o Koordinátora popularizácie vedy. **Koordinátor bude hlavným kontaktným bodom pre Referát pre komunikáciu a médiá v oblasti popularizácie a naopak, referát bude priamou linkou pre koordinátora. Prostredníctvom promptnej, rýchlej a proaktívnej komunikácie si budú navzájom vymieňať „popularizačné“ informácie, od ktorých je závislá viditeľnosť inštitúcie vo vnútri, ale najmä navonok.** V oblasti informovania o patentoch bude pre koordinátora kontaktným bodom Kancelária pre transfer technológií (KTT).

Poslanie a náplň práce koordinátora:

- Zviditeľňovanie ústavu navonok – identifikácia a spracovanie zaujímavých tém, ktorými ústav „žije“, prezentácia osobností ústavu, priestorov, jedinečného technického vybavenia prostredníctvom Referátu pre komunikáciu a médiá a rôznymi komunikačnými kanálmi ústavu.
- Zviditeľňovanie ústavu vo vnútri inštitúcie – mal by mať prehľad o výskumoch iných ústavov a prepájal by navzájom vedcov SAV, spájaj ich do spoločných projektov, pomáhal spoluvytvárať spolupráce v rámci inštitúcie.
- Vyhľadávanie a komunikácia vo vnútri ústavu o výsledkoch s patentovým potenciálom a informovanie KTT ich ochrane.
- Koordinovanie popularizačných a prezentačných podujatí ústavu alebo účasti ústavu na výstavách, veľtrhoch a iných podujatiach organizovaných, alebo spoluorganizovaných SAV.
- Zastrešovanie komunikácie s médiami, spravovanie sociálnych sietí, webu a ich napĺňanie aktuálnym obsahom.

Uvedené zadania vykonáva koordinátor v spolupráci s tímom popularizátorov vedy na ústave.

V r. 2024 náš koordinátor rozbehol kompletne prepracovanie nášho webu a návrh informačnej tabule ústavu.

8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné inštitúcie

8.1. Členstvo v poradných zboroch vlády SR, Národnej rady SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.

Tabuľka 8a Členstvo v poradných zboroch Národnej rady SR, vlády SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.

Meno pracovníka	Názov orgánu	Funkcia
doc. Ing. Fedor Gömöry, DrSc.	ad hoc komisia SKVH	člen
RNDr. Dagmar Gregušová, DrSc.	SKVH	predsedníčka komisií ad hoc
Ing. Ján Kuzmík, DrSc.	SKVH	člen
Mgr. Bohumír Zaťko, PhD	Komisia pre SUJV Dubna pri vláde SR	člen

8.2. Expertízna činnosť a iné služby pre štátnu správu a samosprávu

Názov expertízy: člen pracovnej skupiny pre periodické hodnotenie študijných programov 2. stupňa (Elektronika a fotonika, Kozmické inžinierstvo) v študijnom odbore elektrotechnika

Adresát expertízy: FEI STU

Spracoval: Ing. Filip Gucmann, PhD.

Názov expertízy: člen pracovnej skupiny pre period. hodnotenie programu Bc štúdia Elektronika a nového programu Elektronické systémy a návrh čipov

Adresát expertízy: FEI STU

Spracoval: Ing. Filip Gucmann, PhD.

Názov expertízy: člen pracovnej skupiny pre period. hodnotenie programu PhD. štúdia Elektrotechnika

Adresát expertízy: FEI STU

Spracoval: Ing. Filip Gucmann, PhD.

Názov expertízy: člen pracovnej skupiny pre hodnotenie študijných programov

Adresát expertízy: FEI STU

Spracoval: Dr. rer. nat. Martin Hulman

8.3. Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Tabuľka 8b Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Meno pracovníka	Názov orgánu	Funkcia
Ing. Milan Ťapajna, PhD.	Grantová agentúra MŠ - APVV	Člen Rady pre technické vedy

8.4. Prehľad aktuálnych spoločenských problémov, ktoré riešilo pracovisko v spolupráci s Kanceláriou prezidenta SR, s vládnyimi a parlamentnými orgánmi alebo pre ich potrebu

EIÚ SAV, v.v.i. ako spoluzakladateľ združenia SK Chips. Novozaložené záujmové združenie SK Chips chce prispieť k rozvoju ekosystému polovodičových technológií na Slovensku.

Dňa 22.11.2024 prebehlo ustanovujúce zasadnutie záujmového združenia právnických osôb (ZZPO) pod názvom Slovenské centrum pre polovodiče alebo skráteno SK Chips. Zakladajúcimi členmi združenia sú Ministerstvo školstva, výskumu, vývoja a mládeže SR (MŠ, SR), Ministerstvo hospodárstva SR (MH SR), Slovenská technická univerzita v Bratislave, Elektrotechnický ústav SAV, v.v.i. a Zväz elektrotechnického priemyslu SR.

Cieľom združenia je prispieť k rozvoju ekosystému polovodičových technológií na Slovensku prostredníctvom koordinácie zainteresovaných aktérov komerčnej, verejnej a výskumnej sféry pri tvorbe štátnej politiky, stratégie, a legislatívy. Dôležitou súčasťou aktivít bude aj snaha informovať decíznu sféru a širokú verejnosť o prínosoch polovodičových technológií a o rozvoji medzinárodnej spolupráce s podobnými organizáciami v EÚ.

Na ustanovujúcom zasadnutí si združenie schválilo vnútorné stanovky a zvolilo si z nich vyplývajúcich zástupcov. V jednom z bodov informoval Ing. Michal Mičjan, PhD. o prvom úspechu združenia, ktoré sa úspešne uchádzalo o podporu projektu Slovenského kompetenčného centra pre polovodiče a back-end technológie vo výzve pre vytváranie kompetenčných centier vypísanej Chips JU v programe Digital Europe. Projekt, ktorý je zameraný na rozvoj ekosystému polovodičového priemyslu na Slovensku s dôrazom na púzdrenie polovodičových čipov získal v hodnotení maximálny počet, 15 bodov.

Sme presvedčení, že táto aktivita povedie k zintenzívneniu spolupráce medzi EIÚ SAV, v.v.i a STU

s relevantnými priemyselnými partnermi a priláka aj nové investície firiem do vedy na Slovensku.



9. Aktivity v orgánoch SAV

9.1. Členstvo vo Výbore Snemu SAV

9.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

9.3. Členstvo v komisiách SAV

RNDr. Vladimír Cambel, DrSc.

- Etická komisia SAV (člen)

doc. Ing. Fedor Gömöry, DrSc.

- Akreditačná komisia SAV (člen)
- Komisia pre stratégiu rozvoja SAV (člen)
- Porota pre udeľovanie Medzinárodnej ceny SAV (člen)
- Rada SAV pre vzdelávanie a doktorandské štúdium (člen)

RNDr. Dagmar Gregušová, DrSc.

- Komisia pre posudzovanie vedeckej kvalifikácie (predsedníčka)

9.4. Členstvo v orgánoch VEGA

RNDr. Dagmar Gregušová, DrSc.

- Komisia 5 pre elektrotechniku, automatizáciu a riadiace systémy a príbuzné odbory informačných a komunikačných technológií (podpredsedníčka)
- Rozšírené Predsedníctvo VEGA (člen)

Dr. rer. nat. Martin Hulman

- Komisia VEGA č. 1 pre matematické vedy, počítačové a informatické vedy a fyzikálne vedy (člen)

Ing. Ján Kuzmík, DrSc.

- Komisia 5 pre elektrotechniku, automatizáciu a riadiace systémy a príbuzné odbory informačných a komunikačných technológií (člen)

Ing. Alica Rosová, CSc.

- Komisia pre strojárstvo a príbuzné odbory informačných a komunikačných technológií a materiálové inžinierstvo (člen)

Ing. Milan Ťapajna, PhD.

- Komisia pre elektrotechniku, automatizáciu a riadiace systémy a príbuzné odbory informačných a komunikačných technológií (člen)

Mgr. Bohumír Zaťko, PhD

- Komisia č. 5 pre elektrotechniku, automatizáciu a riadiace systémy a príbuzné odbory informačných a komunikačných technológií (člen)

10. Starostlivosť o ľudské zdroje, rodovú rovnosť, pracovné a sociálne podmienky zamestnancov a uplatňovanie ich práv

10.1. Uplatňovanie princípov stratégie ľudských zdrojov HRS4R

EIÚ SAV, v.v.i. dodržiava pri nábere výskumných pracovníkov zásady ustanovené v Kódexe správania pre nábor výskumných pracovníkov, aby výberový proces bol transparentný a otvorený. Voľné pozície, ako sú PhD a postdoc pozície, inzeruje na rôznych platformách (napríklad Euraxess, profesia.sk) v slovenskom aj anglickom jazyku. Inzeráty obsahujú podrobný opis požadovaných znalostí a schopností, pracovných podmienok a možností kariérneho rozvoja. Výberový proces prebieha v niekoľkých kolách. Po prijatí žiadostí uchádzačov sa uskutočňuje predvýber. Kandidáti, ktorí postúpia do užšieho výberu, sú pozvaní na pohovor pred výberovou komisiou.

Postup pri zamestnávaní pracovníkov (postdoc pozície) sa riadi Smernicou, pričom zloženie prijímacej komisie určuje riaditeľ ústavu. V roku 2024 bola komisia vymenovaná 2x, pričom rozhodla o prijatí celkovo 4 postocov a 2 inžinierskych pracovníkov.

Uveďte stručnú charakteristiku a hodnotenie aktivít v oblasti HRS4R.

Uveďte stručnú charakteristiku a hodnotenie aktivít v oblasti HRS4R.

10.2. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

Na Elektrotechnickom ústave SAV, v.v.i. je od 1. 12. 2021 zriadená Komisia pre rodové a etické otázky. Jej úlohou je zvyšovať povedomie o diverzite a rodovej rovnosti na pracovisku a zároveň riešiť konkrétne podnety pracovníkov a pracovníčok. V roku 2024 sa Komisia zaoberala jedným podnetom, pričom sa opierala aj o poradenstvo a komunikáciu s osobami poverenými touto problematikou na PSAV. Aj vďaka tejto komunikácii bol problém úspešne vyriešený.

Stručné hodnotenie stavu uplatňovania princípov rodovej rovnosti v organizácii, súvisiace aktivity a opatrenia, návrhy na aktualizáciu Plánu rodovej rovnosti SAV.

10.2.1. Rodová skladba hlavných riešiteľov (vedúcich) projektov

Prípadný stručný komentár ako úvod (nepovinný).

Tabuľka 10a Rodová skladba hlavných riešiteľov domácich projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1. Projekty VEGA	11	7	4	1	1	0
2. Projekty APVV	10	8	2	7	5	2
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	12	10	2	0	0	0
4. Projekty SASPRO, MoRePro, IMPULZ	2	2	0	0	0	0
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	7	5	2	0	0	0

Tabuľka 10b Rodová skladba hlavných riešiteľov medzinárodných projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1. Projekty Horizont 2020 a Horizont Európa	0	0	0	5	5	0
2. Projekty ERA.NET, ESA, JRP	1	1	0	0	0	0
3. Projekty COST	0	0	0	3	3	0
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	1	1	0	4	3	1

5. Projekty v rámci medzivládnych dohôd	0	0	0	0	0	0
6. Bilaterálne projekty MAD, Mobility, Open Mobility	1	1	0	0	0	0
7. Bilaterálne projekty ostatné	3	3	0	0	0	0
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	0	0	0	0	0	0
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	0	0	0	0
10. Iné projekty	0	0	0	0	0	0

10.2.2. Výskum zameraný na rodovú problematiku

Uved'te stručné, základné informácie o projektoch orientovaných na rodovú problematiku, ak organizácia takýto výskum realizuje. Informácie o financovaní a výsledkoch takýchto projektov sa nachádzajú v kapitole 2 a v prílohe A-3.

10.3. Informácie o pracovných a sociálnych podmienkach zamestnancov a uplatňovaní ich práv

Kolektívna zmluva na roky 2023-24 sa zmenila nasledovne:

V oblasti sociálnych a materiálnych potrieb sme pridali bod, že zamestnávateľ poskytne pracovné voľno na regeneráciu s náhradou mzdy v maximálnom rozsahu 5 dní v príslušnom kalendárnom roku všetkým administratívnym pracovníkom, technickým pracovníkom a pre obslužný personál.

V roku 2024 ústav preplácal športovú činnosť detí zamestnancov v zmysle platného zákona.

Uved'te stručné, základné informácie k problematike.

11. Orgány v. v. i., ich skladba a činnosť, štrukturálne, organizačné a právne zmeny v organizácii

11.1. Správna rada - zloženie a základná informácia o činnosti

Na ústave neboli v roku 2024 žiadne organizačné zmeny.

11.2. Vedecká rada - zloženie a základná informácia o činnosti

Na ústave neboli v roku 2024 žiadne zmeny zakladacej listiny ani vnútorných predpisov organizácie.

11.3. Dozorná rada - zloženie a základná informácia o činnosti

Uved'te stručné, základné informácie k problematike.

11.4. Informácie o štrukturálnych a organizačných zmenách v organizácii

Uved'te stručné, základné informácie k problematike.

11.5. Zmeny zakladacej listiny, vnútorných predpisov organizácie alebo zakladateľ'a

12. Činnosť knižnično-informačného pracoviska organizácie

12.1. Knižničný fond

Tabuľka 12a Knižničný fond

Knižničné jednotky spolu		2193
z toho	knihy a zviazané periodiká	2188
	audiovizuálne dokumenty	0
	elektronické dokumenty (vrátane digitálnych)	146
	mikroformy	0
	iné špeciálne dokumenty - dizertácie, výskumné správy	828
	Rukopisy, vzácne tlače	0
Počet titulov dochádzajúcich periodík		1
z toho zahraničné periodiká		0
Ročný prírastok knižničných jednotiek		1
v tom	kúpou	1
	darom	0
	výmenou	0
	bezodplatným prevodom	0
	náhradou	0
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		2193

Výraz „**v tom**“ označuje úplné (vyčerpávajúce) údaje, ktorých súčet sa musí rovnať údaju v riadku „spolu“, čiže nadradenému riadku.

Výraz „**z toho**“ označuje neúplné (výberové) údaje, ktorých súčet sa nemusí rovnať údaju v riadku „spolu“.

12.2. Výpožičky a služby

Tabuľka 12b Výpožičky a služby

Výpožičky spolu (riadok 1)		0
v tom z r. 1	prezenčné výpožičky	
	absenčné výpožičky	
v tom z r. 1	odborná literatúra pre dospelých	
	výpožičky periodík	
MVS iným knižniciam		0
MVS z iných knižníc		0
MMVS z iných knižníc		0
Počet vypracovaných bibliografií		0

Počet vypracovaných rešerší	334
-----------------------------	-----

12.3. Používatelia

Tabuľka 12c Používatelia

Registrovaní používatelia	126
Návštevníci knižnice spolu (bez návštevníkov podujatí)	0

12.4. Iné údaje

Tabuľka 12d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	1
Náklady na nákup knižničného fondu v €	250

12.5. Iné informácie o knižničnej činnosti

13. Nadácie a fondy pri organizácii

14. Realizácia Koncepcie dlhodobého rozvoja a Akčného plánu organizácie

14.1. Odporúčania z posledného pravidelného (akreditačného) hodnotenia organizácií SAV

Medzinárodný panel EIÚ SAV, v.v.i. skonštatoval progress dosiahnutý ústavom v poslednom období.

Veľkú úlohu v tomto zohral náš Medzinárodný poradný zbor (Advisory Board – AB) a realizácia jeho odporúčaní v praxi.

14.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

EIÚ SAV v.v.i. postupuje v zmysle svojho akčného plánu, čo bolo vyzdvihnuté aj členmi P SAV.

14.3. Aktualizácia Akčného plánu organizácie v roku 2024

Akčný plán EIÚ SAV bude aktualizovaný na základe pripomienok nášho AB na začiatku r. 2025.

Akčný plán sme aktualizovali aj vzhľadom na podpísanú Výkonnostnú zmluvu s PSAV. Na základe tejto zmluvy budú novým spôsobom napočítavané odmeny za publikovanie – výška odmeny významne závisí od kvality publikácie, teda od kvartilu a impaktu časopisu, v ktorom vyšla.

15. Iné významné činnosti organizácie

16. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám

Uvedte informácie v súlade so zákonom č. 211/2000 Z.z. o slobodnom prístupe k informáciám.

17. Problémy organizácie a podnety pre Predsedníctvo SAV k činnosti SAV ako celku

Uveďte informácie a podnety v súlade s názvom kapitoly.

18. Vyjadrenia vedeckej rady organizácie k výsledkom výskumnej činnosti za uplynulý rok

Vedecká rada EIÚ SAV, v.v.i. na zasadnutí dňa 22. januára 2025 prerokovala výročnú správu Elektrotechnického ústavu v.v.i. a konštatuje, že ústav dosiahol menej významné výsledky vo výskumnej činnosti. Dosiahol však významné výsledky v rámci medzinárodnej spolupráce ako aj v spolupráci s podnikateľskými subjektami, ako domácimi, tak aj zahraničnými.

Uvádzajte tu stručné rámcové hodnotenie výsledkov výskumnej činnosti schválené vedeckou radou organizácie a jej vyjadrenie k spôsobilosti organizácie vykonávať výskumnú činnosť.

Schválila vedecká rada organizácie SAV dňa 22.1.2024

RNDr. Dagmar Gregušová, DrSc.
predseda vedeckej rady

Výročnú správu o činnosti organizácie za rok 2024 vypracoval(i):

RNDr. Vladimír Cambel, DrSc., 02/ 5922 2552, 2555
PhDr. Anna Gömöryová, 0903 919 384

Bratislava, 3.2.2025

RNDr. Vladimír Cambel, DrSc.
riaditeľ organizácie

PRÍLOHY k časti A

Príloha A-1

Zoznam zamestnancov a doktorandov organizácie k 31.12.2024

Zoznam zamestnancov podľa štruktúry

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	RNDr. Vladimír Cambel, DrSc.	100	1.00
2.	Ing. Karol Fröhlich, DrSc.	20	0.20
3.	doc. Ing. Fedor Gömöry, DrSc.	100	1.00
4.	RNDr. Dagmar Gregušová, DrSc.	100	1.00
5.	Ing. Štefan Chromik, DrSc.	30	0.35
6.	Ing. Pavol Kováč, DrSc.	100	1.00
7.	Ing. Ján Kuzmík, DrSc.	100	1.00
8.	doc. RNDr. Martin Moško, DrSc.	40	0.40
9.	doc. Ing. Jozef Novák, DrSc.	60	0.60
10.	Ing. Jozef Osvald, DrSc.	20	0.20
11.	doc. Ing. Viera Skákalová, DrSc.	40	0.53
Samostatní vedeckí pracovníci			
1.	Ing. Michal Blaho, PhD.	100	0.84
2.	RNDr. Pavol Boháček, CSc.	20	0.30
3.	doc. RNDr. Edmund Dobročka, CSc.	80	0.80
4.	Ing. Ján Fedor, PhD	100	1.00
5.	Mgr. Juraj Feilhauer, PhD.	100	1.00
6.	Ing. Filip Guemann, PhD.	100	1.00
7.	RNDr. Štefan Haščík, PhD.	60	0.60
8.	Ing. Boris Hudec, PhD.	100	1.00
9.	Dr. rer. nat. Martin Hulman	100	1.00
10.	Ing. Tibor Izsák, PhD.	100	1.00
11.	Mgr. Peter Kotrusz, PhD.	100	1.00
12.	Mgr. Ján Kováč, PhD.	100	1.00
13.	Mgr. Andrii Kozak, PhD.	100	1.00
14.	RNDr. Michal Kučera, PhD	50	0.50
15.	Mgr. Agáta Laurenčíková, PhD.	100	0.00
16.	RNDr. Antónia Mošková, CSc.	60	0.60

17.	Dr. Michal Mruczkiewicz	30	0.25
18.	Mgr. Enric Pardo, PhD.	100	1.00
19.	Ing. Marián Precner, PhD.	100	1.00
20.	RNDr. Lenka Pribusová Slušná, PhD.	100	1.00
21.	Ing. Alica Rosová, CSc.	100	1.00
22.	Mgr. Eugen Seiler, PhD	100	1.00
23.	Mgr. Michaela Sojková, PhD.	100	1.00
24.	Mgr. Mykola Soloviov, PhD.	100	1.00
25.	Ing. Roman Stoklas, PhD.	100	1.00
26.	Ing. Ján Šoltýs, PhD	100	1.00
27.	Ing. Ján Šouc, CSc.	80	0.80
28.	RNDr. Marianna Španková, PhD	100	1.00
29.	Ing. Milan Ťapajna, PhD.	100	0.85
30.	Ing. Jaroslav Tóvik, PhD.	100	1.00
31.	Ing. Gabriel Vanko, PhD.	100	0.08
32.	Ing. Marian Varga, PhD.	100	1.00
33.	Ing. Zdenko Zápražný, PhD.	100	1.00
34.	Mgr. Bohumír Zat'ko, PhD	100	1.00
Vedeckí pracovníci			
1.	Ing. Marek Búran, PhD.	100	1.00
2.	MSc. Anang Dadhich, PhD.	100	1.00
3.	Mgr. Fridrich Egyenes, PhD.	100	0.65
4.	Ing. Jozef Fabian, CSc	100	1.00
5.	Ing. Norbert Gál, PhD.	100	0.00
6.	Mgr. Jana Hrdá, PhD.	100	1.00
7.	Ing. Ladislav Hrubčín, CSc.	20	0.30
8.	Mgr. Peter Hutár, PhD.	100	0.02
9.	Mgr. Marián Janík, PhD.	100	0.13
10.	RNDr. Tetiana Kalmykova, PhD.	100	1.00
11.	Iryna Kozak, PhD.	100	0.32
12.	Sergei Krylov, PhD.	100	0.83
13.	Ing. Martin Kucharovič, PhD.	100	0.40
14.	Ing. Tomáš Kujovič, PhD.	100	1.00
15.	Mgr. Peter Nádaždy, PhD.	50	0.50
16.	RNDr. Katarína Neilinger, PhD.	100	0.00

17.	Ing. Ondrej Pohorelec, PhD.	100	1.00
18.	Ing. Rastislav Ries, PhD.	100	0.50
19.	Ing. Michal Sobota, PhD.	100	0.25
20.	Ing. Tomáš Ščepka, PhD.	100	0.67
21.	Ing. Marcel Talacko, PhD.	100	1.00
22.	Mgr. Iuliia Vetrova, PhD.	100	1.00
Odborní pracovníci s VŠ vzděláním (výzkumní a vývojoví zaměstnanci)			
1.	Mgr.Phil. Faizan Ahmad	10	0.10
2.	Ing. Miriam Almášiová	85	0.22
3.	Ing. Michal Bennár	10	0.10
4.	Ing. Dušan Berek	100	1.00
5.	Mohammad Dehghan	10	0.09
6.	Ing. Peter Eliáš	100	1.00
7.	Ing. Lubomír Frolek	100	1.00
8.	Ing. Stanislav Hasenöhrl	100	1.00
9.	Ing. Fedor Hrubíšák	100	0.40
10.	MSc. Arif Hussain	10	0.10
11.	Ing. Imrich Hušek	60	0.93
12.	RNDr. Kristína Hušeková	80	0.80
13.	MTech. Hemendra Chouhan	10	0.10
14.	MSc. Javad Keshtar	100	0.23
15.	Ing. Eva Kováčová	100	1.00
16.	Ing. Timea Ema Krajčovičová	10	0.03
17.	Ing. Miriam Krettová	10	0.03
18.	Ing. Tibor Melišek	60	0.60
19.	Mgr. Michal Pecz	10	0.10
Odborní pracovníci s VŠ vzděláním (ostatní zaměstnanci)			
1.	Mgr. Miroslava Blázyová	100	1.00
2.	PhDr. Anna Gömöryová	60	0.60
3.	Ing. Pavol Mozola	100	1.00
4.	Mgr. Vojtech Ogrodnik	40	0.40
5.	Mgr. Eva Stranovská	100	1.00
6.	Ing. Marta Zofcsáková	100	1.00
Odborní pracovníci ÚSV			
1.	Juraj Arbet	60	0.87

2.	Ján Dérer	20	0.33
3.	Michal Gerboc	100	1.00
4.	Iveta Grófova	100	1.00
5.	Martin Grujbár	100	1.00
6.	Lubomír Kopera	80	0.80
7.	Peter Martiš	100	1.00
8.	Darina Ružičková	100	1.00
9.	Jana Ryzá	100	1.00
10.	Alena Seifertová	100	1.00
11.	Karol Schwarz	50	0.50
12.	Edita Sýkorová	50	0.50
13.	Edita Šimeková	100	1.00
14.	Stanislav Štefánik	100	1.00
15.	Juraj Tančár	50	0.50
16.	Iveta Tóthová	100	1.00
17.	Mária Zajíčková	50	0.50
Ostatní pracovníci			
1.	Jolana Častková	100	1.00
2.	Kvetoslava Hamburgová	100	1.00
3.	Iveta Putiková	100	1.00
4.	Róbert Vanek	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	doc. Ing. Jozef Novák, DrSc.	31.12.2024	0.60
Samostatní vedeckí pracovníci			
1.	Ing. Róbert Kúdela, CSc.	31.8.2024	0.13
2.	Dr. Michal Mruczkiewicz	31.12.2024	0.25
Vedeckí pracovníci			
1.	Ing. Ladislav Hrubčín, CSc.	31.12.2024	0.30
2.	Ing. Marek Mošať, PhD.	29.2.2024	0.17
3.	Dr. Arpit Kumar Srivastava	31.5.2024	0.42
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	MSc. Ghazaleh Esmaeili Dehaghi	30.4.2024	0.03

2.	Mgr. Martina Pakanová	31.8.2024	0.17
3.	MSc. Saviz Parsa Saeb	31.10.2024	0.00
4.	Mgr. Mária Sekáčová	30.6.2024	0.20
Odborní pracovníci ÚSV			
1.	Michal Vrbovský	29.2.2024	0.00

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení z prostriedkov SAV			
1.	Mgr. Faizan Ahmad		
2.	Ing. Michal Bennár		
3.	Mohammad Dehghan		
4.	MSc. Arif Hussain		
5.	MTech. Hemendra Chouhan		
6.	Ing. Timea Ema Krajčovičová		
7.	Ing. Miriam Krettová		
8.	Mgr. Michal Pecz		
Interní doktorandi hrazení z iných zdrojov			
1.	Ing. Fedor Hrubíšák		
2.	MSc. Javad Keshtar		
Externí doktorandi			
<i>organizácia nemá externých doktorandov</i>			

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)
--	----------------	----------------	----------------	--------------

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi
--	----------------

Príloha A-2

Projekty riešené v organizácii

Medzinárodné projekty

Programy: COST

1.) Magnetizmus a chiralita: točivé spiny, svetlo, a kryštalické mriežky pre rýchlejšiu spintroniku (*Magnetism and chirality: twisting spins, light, and lattices for faster-than-ever spintronics*)

Zodpovedný riešiteľ:	Juraj Feilhauer
Trvanie projektu:	2.10.2024 / 1.10.2028
Evidenčné číslo projektu:	CA23136
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Stichting Radboud Universiteit Nijmegen
Počet spoluriešiteľských inštitúcií:	25 - Rakúsko: 1, Belgicko: 1, Česko: 2, Nemecko: 1, Dánsko: 1, Španielsko: 1, Fínsko: 1, Francúzsko: 1, Veľká Británia: 1, Grécko: 1, Chorvátsko: 1, Maďarsko: 1, Švajčiarsko: 1, Írsko: 1, Izrael: 1, Taliansko: 1, Holandsko: 1, Poľsko: 1, Portugalsko: 1, Rumunsko: 1, Srbsko: 1, Slovinsko: 1, Švédsko: 1, Turecko: 1
Čerpané financie:	-

2.) Európska sieť pre inovatívnu a pokročilú epitaxiu (*European Network for Innovative and Advanced Epitaxy*)

Zodpovedný riešiteľ:	Ján Kuzmík
Trvanie projektu:	1.11.2021 / 30.10.2025
Evidenčné číslo projektu:	CA20116
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centre des Nanosciences et des Nanotechnologies, C2N-CNRS-UMR9001, Université Paris-Saclay, France
Počet spoluriešiteľských inštitúcií:	31 - Rakúsko: 1, Belgicko: 1, Bulharsko: 1, Bosna a Hercegovina: 1, Cyprus: 1, Česko: 1, Nemecko: 1, Dánsko: 1, Španielsko: 1, Estónsko: 1, Fínsko: 1, Veľká Británia: 1, Grécko: 1, Chorvátsko: 1, Maďarsko: 1, Švajčiarsko: 1, Írsko: 1, Izrael: 1, Taliansko: 1, Litva: 1, Luxembursko: 1, Lotyšsko: 1, Moldavsko: 1, Holandsko: 1, Nórsko: 1, Poľsko: 1, Portugalsko: 1, Rumunsko: 1, Srbsko: 1, Švédsko: 1, Turecko: 1
Čerpané financie:	SAV: 2000 €

Dosiahnuté výsledky:

Blaho, M., Gregušová, Eliáš, P., Pohorelec, O., Hasenöhrl, S., Haščík, Š., Gucmann, F., Zápražný, Z. 5, Dobročka, E., Kyambaki, M., and Konstantinidis, G., Kuzmík J.: Growth and performance of n++ GaN cap layer for HEMTs applications, IWN 2024, Honolulu, November 4-8, 2024.

3.) Vysokoteplotná supravodivosť pre zrýchlenie prechodu k čistejšej energii (*High-TeHigh-Temperature SuperConductivity for AcceLerating the Energy Transitionmperature SuperConductivity for AcceLerating the Energy Transition*)

Zodpovedný riešiteľ: Enric Pardo
Trvanie projektu: 8.10.2020 / 7.10.2024
Evidenčné číslo projektu: CA19108
Organizácia je koordinátorom projektu: nie
Koordinátor: NOVA.ID.FCT , Caparica
Počet spoluriešiteľských inštitúcií: 27 - Rakúsko: 1, Belgicko: 1, Bulharsko: 1, Bosna a Hercegovina: 1, Brazília: 1, Nemecko: 1, Dánsko: 1, Španielsko: 3, Fínsko: 1, Francúzsko: 1, Veľká Británia: 1, Grécko: 1, Izrael: 1, Taliansko: 1, Luxembursko: 1, Poľsko: 1, Portugalsko: 2, Rumunsko: 1, Srbsko: 2, Slovinsko: 1, Turecko: 2, Ukrajina: 1
Čerpané financie: SAV: 1500 €

Dosiahnuté výsledky:

Dadhich, A., Grilli, F., Dennis, L., Vanderheyden, B., Geuzaine, C., Trillaud, F., Sotnikov, D., Salmi, T., Hajiri, G., Berger, K., Benkel, T., dos Santos, G., Santos, B.M.O., Martins, F.G.R., Hussain, A., Pardo, E.: Electromagnetic-thermal modeling of high-temperature superconducting coils with homogenized method and different formulations: a benchmark, *Supercond. Sci Technol.* 37 (2024) 125006.

Programy: EUREKA

4.) Filamentované pásky z vysokoteplotného supravodiča pre použitie vo fúzii (*Filamentized high temperature superconductor tapes for fusion*)

Zodpovedný riešiteľ: Fedor Gömöry
Trvanie projektu: 1.10.2021 / 30.9.2024
Evidenčné číslo projektu: Eurostars 2 - E115264
Organizácia je koordinátorom projektu: nie
Koordinátor: SUBRA A/S
Počet spoluriešiteľských inštitúcií: 2 - Nemecko: 1, Dánsko: 1
Čerpané financie: MŠVVŠ SR: 34458 €

Dosiahnuté výsledky:

Gömöry, F., Solovyov, M., Šouc, J., Frolek, L., Kujovič, T., Seiler, E., Ries, R., Mošať, M., Winkler, T., Sugita, K., Dhallé, M., Krooshoop, H.J.G., Hintze, C., Troshyn, A., Prusseit, W., Nedergaard, L., Traberg, L., Christensen, J.J., Jorgensen, N.O., Bahl, C.R.H., and Wulff, A.C.: AC loss reduction in round HTS cables achieved by low-cost filamentization of tape conductors, *IEEE Trans. Applied Supercond.* 34 (2024) 5901605.

Programy: International Visegrad Fund (IVF)

5.) Stredoeurópsky kompetenčný klaster pre (ultra)širokopásmové polovodiče (*Central-European (Ultra)Wide Bandgap Expertise Cluster*)

Zodpovedný riešiteľ: Filip Guemann
Trvanie projektu: 1.1.2024 / 1.6.2025
Evidenčné číslo projektu: 22320095
Organizácia je áno

koordinátorom projektu:

Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 3 - Maďarsko: 2, Poľsko: 1
Čerpané financie: -

Dosiahnuté výsledky:

Varga, M., Keshtkar, J., Hušeková, K., Sharma, D., Szabó, O. Aubrechtová Dragounová, K., Cora, I., Gucmann, F., Ťapajna, M., Kromka, A. Polycrystalline Ga₂O₃/diamond heterojunctions for next-generation deep-uv solar-blind photodetectors: a comparative study of growth approaches. In NANOCON 2024 : Abstracts. Different Authors. – Ostrava : TANGER Ltd., 2024, p. 80. ISBN 978-80-88365-20-4.

6.) Projektovanie šírky zakázaného pásu v nekonvenčných polovodičoch (*Band-gap engineering in unconventional semiconductors*)

Zodpovedný riešiteľ: Viera Skákalová
Trvanie projektu: 1.1.2022 / 31.12.2024
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: nie
Koordinátor: Dr. Ryo Kitaura
Počet spoluriešiteľských inštitúcií: 4 - Česko: 1, Maďarsko: 1, Japonsko: 1, Poľsko: 1
Čerpané financie: SAV: 24996 €

Programy: Bilaterálne - iné**7.) Topologicky netriviálne fázy vrstvených dichalkogenidov prechodných kovov (*Topologically nontrivial phases of layered transition-metal dichalcogenides*)**

Zodpovedný riešiteľ: Martin Hulman
Trvanie projektu: 1.1.2023 / 31.12.2024
Evidenčné číslo projektu: SASA-SAS-2022-01
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Srbsko: 1
Čerpané financie: -

8.) Vývoj vertikálnych kompozitov z dichalkogenidov prechodových kovov pre použitie v mikrosuperkondenzátoroch (*Vertically aligned two-dimensional transition metal dichalcogenide composites for micro-supercapacitors*)

Zodpovedný riešiteľ: Martin Hulman
Trvanie projektu: 1.1.2023 / 31.12.2025
Evidenčné číslo projektu: MSC_SAS_MOST 2022
Organizácia je koordinátorom projektu: áno

Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 18999 €

9.) Vybudovanie laboratória pre výskum spoľahlivosti výkonových modulov a spoločný výskum v oblasti GaN a Ga2O3 polovodičových výkonových súčiastok (*Establishment of reliability laboratory for power modules and joint reserch of GaN and Ga2O3 power devices*)

Zodpovedný riešiteľ: Milan Ťapajna
Trvanie projektu: 1.7.2023 / 30.6.2027
Evidenčné číslo projektu: SK-TW
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Taiwan: 1
Čerpané financie: ITRI: 737237 €

Programy: ERANET

10.) 3D tlač atomárnych vrstiev ako nová paradigma pre múdru senzoriku (*Atomic-layer 3D printing as a new paradigm for smart sensorics*)

Zodpovedný riešiteľ: Boris Hudec
Trvanie projektu: 1.6.2023 / 31.5.2026
Evidenčné číslo projektu: 10418
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 3 - Dánsko: 1, Slovensko: 1, Taiwan: 1
Čerpané financie: EU: 23744 €

Programy: Horizont 2020

11.) Uskutočňovanie aktivít popísaných v Ceste k fúzii počas Horizon2020 cestou spoločného programu členov konzorcia EUROfusion (*Implementation of activities described in the Roadmap to Fusion during Horizon2020 through a Joint programme of the EUROfusion consortium*)

Zodpovedný riešiteľ: Fedor Gömöry
Trvanie projektu: 1.1.2014 / 31.12.2025
Evidenčné číslo projektu: H2020-101052200
Organizácia je koordinátorom projektu: nie
Koordinátor: Max-Planck Gesellschaft zur Forderung der Wissenschaften E.V.
Počet spoluriešiteľských inštitúcií: 31 - Rakúsko: 1, Belgicko: 0, Bulharsko: 0, Cyprus: 0, Česko: 2, Nemecko: 3, Dánsko: 1, Španielsko: 2, Estónsko: 2, Fínsko: 1,

Francúzsko: 1, Veľká Británia: 1, Grécko: 3, Chorvátsko: 1, Maďarsko: 1, Švajčiarsko: 1, Írsko: 1, Taliansko: 1, Litva: 1, Lotyšsko: 1, Holandsko: 1, Poľsko: 1, Portugalsko: 1, Rumunsko: 1, Slovensko: 1, Slovinsko: 1, Švédsko: 1

Čerpané financie:

EU: 564 €

Podpora medzinárodnej spolupráce z národných zdrojov: 3594 €

Dosiahnuté výsledky:

Gömöry, F. and Šouc, J.: Analysis of current and heat transfer in locations with reduced critical current in coated conductor tape, Supercond. Sci Technol. 37 (2024) 095017.

12.) Supravodivé magnety pre European Magnet Field Laboratory (*Superconducting magnets for the European Magnet Field Laboratory*)

Zodpovedný riešiteľ:

Enric Pardo

Trvanie projektu:

1.1.2021 / 31.12.2024

Evidenčné číslo projektu:

H2020-951714

Organizácia je

nie

koordinátorom projektu:

Koordinátor:

Centre National De La Recherche Scientifique CNRS

Počet spoluriešiteľských

9 - Belgicko: 1, Nemecko: 3, Francúzsko: 1, Veľká Británia: 1,

inštitúcií:

Švajčiarsko: 1, Holandsko: 2

Čerpané financie:

EU: 50558 €

Podpora medzinárodnej spolupráce z národných zdrojov: 7188 €

Dosiahnuté výsledky:

Pardo, E. and Fazilleau, P.: Fast and accurate electromagnetic modeling of non-insulated and metal-insulated REBCO magnets, Supercond. Sci Technol. 37 (2024) 035016.

Dadhich, A., Fazilleau, P., and Pardo, E*.: A novel and fast electromagnetic and electrothermal software for quench analysis of high field magnets, Supercond. Sci Technol. 37 (2024) 095024.

Srivastava, A.K. and Pardo, E.: Modelling the mechanics of 32 T REBCO superconductor magnet using numerical simulation, Supercond. Sci Technol. 37 (2024) 075014.

13.) Podpora inovácií v urýchľovačovom výskume a technológií (*Innovation Fostering in Accelerator Science and Technology*)

Zodpovedný riešiteľ:

Eugen Seiler

Trvanie projektu:

1.5.2021 / 30.4.2025

Evidenčné číslo projektu:

H2020-101004730

Organizácia je

nie

koordinátorom projektu:

Koordinátor:

European Organization For Nuclear Research - CERN

Počet spoluriešiteľských

20 - Rakúsko: 1, Nemecko: 2, Španielsko: 2, Estónsko: 1,

inštitúcií:

Francúzsko: 4, Veľká Británia: 1, Maďarsko: 1, Švajčiarsko: 2,

Taliansko: 1, Lotyšsko: 1, Holandsko: 1, Poľsko: 1, Slovensko: 1,

Švédsko: 1

Čerpané financie:

EU: 8580 €

Podpora medzinárodnej spolupráce z národných zdrojov: 7188 €

Dosiahnuté výsledky:

Gömöry, F., Solovyov, M., Šouc, J., Frolek, L., Kujovič, T., Seiler, E., Ries, R., Mošať, M., Winkler, T., Sugita, K., Dhallé, M., Krooshoop, H.J.G., Hintze, C., Troshyn, A., Prusseit, W., Nedergaard, L., Traberg, L., Christensen, J.J., Jorgensen, N.O., Bahl, C.R.H., and Wulff, A.C.: AC loss reduction in round HTS cables achieved by low-cost filamentization of tape conductors, IEEE Trans. Applied Supercond. 34 (2024) 5901605.

Programy: Mobility

14.) Príprava a vlastnosti supravodivých a magnetických oxidových vrstiev pre moderné elektronické aplikácie (*Preparation and properties of superconducting and magnetic oxide films for modern electronic applications*)

Zodpovedný riešiteľ:	Štefan Chromik
Trvanie projektu:	1.1.2023 / 31.12.2024
Evidenčné číslo projektu:	PAS-SAS-2022-07
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Poľsko: 1
Čerpané financie:	-
	Podpora medzinárodnej spolupráce z národných zdrojov: 1500 €

Dosiahnuté výsledky:

Bennár, M., Španková, M., Talacko, M., Gregor, M., Kronek, J., and Chromik, Š.: Enhancement of YBCO superconductivity by chemical surface treatment, J. Mater. Sci: Mater. Electron. 35 (2024) 1472. <https://doi.org/10.1007/s10854-024-13243-7>

Bennár, M., Chromik, Š., Španková, M., Talacko, M., Kronek, J., Chlpík, J., and Nádaždy, P.: Fundamental preparation of polylactic acid self-assembled monolayers for future spintronic applications. In 2024 IEEE 14th International Conference "Nanomaterials: Applications & Properties" (IEEE NAP-2024): Book of Abstracts, Riga, 2024, no. 08nmm-14. Dostupné na internete: https://ieeenap.org/data/IEEE_NAP_2024_Abstract_Book.pdf

Talacko, M., Chromik, Š., Španková, M., Dvurečenskij, A., Škrátek, M., and Cigáň, A.: Magnetic properties of YBCO thin film structure irradiated by low energy electron beam. In: Proc. 14th Inter. Conf. Solid State Surfaces Interfaces Conf. – SSSI 2024. Extend. Abstract Book. Ed. B. Brunner. Bratislava: Comenius Univ. 2024, p. 65. ISBN 978-80-223-5941-2.

Bennár, M., Chromik, Š., Talacko, M., Chlpík, J., Zápražný, Z., Španková, M.: Formation of a polylactic acid monolayer on gold for potential applications in spintronics. In: Proc. 14th Inter. Conf. Solid State Surfaces Interfaces Conf. – SSSI 2024. Extend. Abstract Book. Ed. B. Brunner. Bratislava: Comenius Univ. 2024, p. 18. ISBN 978-80-223-5941-2.

Zajcewa, I., Chrobak, M., Cieplak, Z., Chromik, Š., Talacko, M., Špankova, M., and Witkowski, B.: Deposition of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ thin films by pulsed laser deposition and characterization of their structural and transport properties. In: XIII Konf. Techniki Próźni Inst. Fizyki PAN. Warszawa 2024. Výveska.

Zajcewa, I., Abaloszewa, I., Chrobak, M., Chromik, Š., Talacko, M., Špankova, M., Gierłowski, P., and Cieplak, M.Z.: Percolative superconductivity in highly underdoped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ thin films,

poster presentation. In: XXI Nat. Supercond. Conf. (KKN21). Krakow 2024. Výveska.

Programy: Horizont Európa

15.) Supravodivé káble podporujúce prechod na udržateľnú energetiku (*Superconducting cables for sustainable energy transition*)

Zodpovedný riešiteľ: Fedor Gömöry
Trvanie projektu: 1.9.2022 / 28.2.2027
Evidenčné číslo projektu: Horizont Európa-101075602
Organizácia je koordinátorom projektu: nie
Koordinátor: SINTEF ENERGI AS, Trondheim
Počet spoluriešiteľských inštitúcií: 13 - Nemecko: 3, Francúzsko: 4, Írsko: 1, Taliansko: 4, Portugalsko: 1
Čerpané financie: EU: 73954 €
Podpora medzinárodnej spolupráce z národných zdrojov: 7188 €

Dosiahnuté výsledky:

Kováč, P., Búran, M., Kováč, J., Melišek, T., Hušek, I., Berek, D., Mauceri, P., Spina, T., and Bruzek, Ch.-E.: Electrical and mechanical limits of ex situ MgB₂ wires for cabling, *Supercond. Sci Technol.* 37 (2024) 065004.

Magnusson, N., Allais, A., Angeli, G., Bouvier, G., Bruzek, C.E., Candido, J., Creusot, C., Gammels?ter, M., Garofalo, E., Gömöry, F., Hodge, E., Holé, S., Marian, A., Morandi, A., Reiser, W., and West, B.: SCARLET – a european effort to develop HTS and MgB₂ based MVDC cables, *IEEE Trans. Applied Supercond.* 34 (2024) 5400205.

16.) Heterogenná materiálová a technologická platforma pre novú doménu výkonovej nanoelektroniky (*Heterogeneous Material and Technological Platform for a New Domain of Power Nanoelectronics*)

Zodpovedný riešiteľ: Ján Kuzmík
Trvanie projektu: 1.12.2022 / 30.11.2025
Evidenčné číslo projektu: Horizont Európa-101091433
Organizácia je koordinátorom projektu: nie
Koordinátor: THALES
Počet spoluriešiteľských inštitúcií: 10 - Nemecko: 2, Španielsko: 1, Veľká Británia: 1, Grécko: 3, Taliansko: 1, Rumunsko: 1, Švédsko: 1
Čerpané financie: EU: 63405 €
Podpora medzinárodnej spolupráce z národných zdrojov: 10782 €

Dosiahnuté výsledky:

Blaho, M., Gregušová, Eliáš, P., Pohorelec, O., Hasenöhrl, S., Haščík, Š., Guemann, F., Zápražný, Z. 5, Dobročka, E., Kyambaki, M., and Konstantinidis, G., Kuzmík J.: Growth and performance of n⁺⁺ GaN cap layer for HEMTs applications, *IWN 2024*, Honolulu, November 4-8, 2024.

Kuzmík, J., Blaho, M., Gregušová, D., Eliáš, P., Pohorelec, O., Hasenöhrl, S., Haščík, Š., Guemann, F., Zápražný, Z., Dobročka, E., Kyambaki, M., and Konstantinidis, G.: Growth and

performance of n⁺⁺ GaN cap layer for HEMTs applications, Mater. Sci Semicond. Process. 185 (2025) 108959.

Programy: EDF

17.) Európska inovatívna pokročilá GaN mikrovlnná integrácia (*European Innovative GaN Advanced Microwave Integration*)

Zodpovedný riešiteľ: Ján Kuzmík
Trvanie projektu: 15.12.2022 / 14.12.2026
Evidenčné číslo projektu: 101102983
Organizácia je koordinátorom projektu: nie
Koordinátor: United Monolithic Semiconductors GmbH
Počet spoluriešiteľských inštitúcií: 15 - Belgicko: 1, Nemecko: 2, Španielsko: 3, Fínsko: 1, Francúzsko: 1, Grécko: 1, Chorvátsko: 1, Taliansko: 2, Litva: 1, Holandsko: 1, Švédsko: 1
Čerpané financie: EU: 34679 €
Podpora medzinárodnej spolupráce z národných zdrojov: 5391 €

Dosiahnuté výsledky:

Blaho, M., Gregušová, Eliáš, P., Pohorelec, O., Hasenöhrl, S., Haščík, Š., Guemann, F., Zápražný, Z. 5, Dobročka, E., Kyambaki, M., and Konstantinidis, G., Kuzmík J.: Growth and performance of n⁺⁺ GaN cap layer for HEMTs applications, IWN 2024, Honolulu, November 4-8, 2024.

Programy: Digital Europe Programme

18.) Slovenská kvantová komunikačná infraštruktúra (*Slovak Quantum Communication*)

Zodpovedný riešiteľ: Mário Ziman
Zodpovedný riešiteľ v organizácii SAV: Vladimír Cambel
Trvanie projektu: 1.1.2023 / 30.6.2025
Evidenčné číslo projektu: 101091548
Organizácia je koordinátorom projektu: nie
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 13 - Slovensko: 13
Čerpané financie: EU: 163901 €
Výskumná agentúra : 163901 €

Domáce projekty

Programy: VEGA

1.) Tepelná stabilizácia vysokoteplotných supravodivých pásov pre použitie v obmedzovačoch skratových prúdov (*Thermal stabilization of high-temperature superconducting tapes for fault current limiters*)

Zodpovedný riešiteľ: Fedor Gömöry
Trvanie projektu: 1.1.2021 / 31.12.2024
Evidenčné číslo projektu: 1/0205/21
Organizácia je koordinátorom projektu: nie
Koordinátor: Materiálovotechnologická fakulta STU
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 3975 €

Dosiahnuté výsledky:

Hulačová, S., Pekarčíková, M., Skarba, M., Frolek, L., and Cuninková, E.: Comparison of AC loss reduction methods based on striation of Ag-stabilized REBCO tapes, *IEEE Trans. Applied Supercond.* 34 (2024) 5901205.

Cuninková, E., Frolek, L., Šouc, J., Ferenčík, F., Bónová, L., Száraz, Z., Skarba, M., Hulačová, S., Pekarčíková, M., and Šimon, Š.: Characterization of a novel TORT cable wound of stabilized striated REBCO tapes for reduced magnetization AC losses, *Supercond. Sci Technol.* 37 (2024) 075020.

Gömöry, F., Solovyov, M., Šouc, J., Frolek, L., Kujovič, T., Seiler, E., Ries, R., Mošat', M., Winkler, T., Sugita, K., Dhallé, M., Krooshoop, H.J.G., Hintze, C., Troshyn, A., Prusseit, W., Nedergaard, L., Traberg, L., Christensen, J.J., Jorgensen, N.O., Bahl, C.R.H., and Wulff, A.C.: AC loss reduction in round HTS cables achieved by low-cost filamentization of tape conductors, *IEEE Trans. Applied Supercond.* 34 (2024) 5901605.

Kucharovič, M., Gömöry, F., and Solovyov, M.: Demagnetizing the superconducting part of the magnetic cloak, *IEEE Trans. Applied Supercond.* 34 (2024) 8200404.

2.) Výskum a vývoj kontaktov pre nové materiály a súčiastky (*Contact engineering for advanced materials and devices*)

Zodpovedný riešiteľ: Dagmar Gregušová
Trvanie projektu: 1.1.2021 / 31.12.2024
Evidenčné číslo projektu: 2/0068/21
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 13410 €

Dosiahnuté výsledky:

Matúš, M., Stuchlíková, Ľ., Gregušová, D., Morales, M., Weis, M., Marek, J., and Ruterana, P.: Investigation of emission processes in InGaN/GaN quantum well structure. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 89-92. ISBN 978-80-554-2109-4.

Hrdá, J., Moško, M., Píš, I., Vojteková, T., Pribusová Slušná, L., Hutár, P., Precner, M., Dobročka, E., Španková, M., Hulman, M., Chromik, Š., Šiffalovič, P., Bondino, F., and Sojková, M.: Investigating structural, optical, and electron-transport properties of lithium intercalated few-layer MoS₂ films: Unraveling the influence of disorder, *Applied Phys. Lett.* 124 (2024) 123101.

Kuzmík, J., Stoklas, R., Hasenöhrl, S., Dobročka, E., Kučera, M., Eliáš, P., Gucmann, F., Gregušová, D., Haščík, Š., Kaleta, A., Chauvat, M.P., Kret, S., and Ruterana, P.: InN/InAlN heterostructures for new generation of fast electronics, *J. Applied Phys.* 135 (2024) 245701.

Gucmann, F., Meng, B., Chvála, A., Kúdela, R., Yuan, C., Ťapajna, M., Florovič, M., Egyenes, F., Eliáš, P., Hrubíšák, F., Kováč, J.Jr., Fedor, J., and Gregušová, D.: Improved thermal performance of InGaAs/GaAs nanomembrane HEMTs transferred onto various substrates by epitaxial lift-off, *ACS Applied Electron. Mater.* 6 (2024) 5651–5660.

3.) Ultratenké homogénne povrchové vrstvy na štruktúrach komplexnej morfológie pre vylepšenie výkonu batérii využitím depozície po atómových vrstvách (*Ultra-thin conformal surface coatings of complex-morphology structures for improving battery performance using atomic layer deposition*)

Zodpovedný riešiteľ: Boris Hudec
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: 2/0162/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 12215 €

Dosiahnuté výsledky:

Sahoo, P.P, Gu?neren, A., Hudec, B., Mikolášek, M., Nada, A., Precnerová, M., Mičušík, M., Lenčoš, Z., Nádaždy, P., and Fröhlich, K.: Stabilization of the solid-electrolyte-interphase layer and improvement of the performance of silicon?graphite anodes by nanometer-thick atomic-layer-deposited ZnO films, *ACS Applied Nano Mater.* 7 (2024) 18486–18498.

4.) Supravodivé spoje pre MgB₂ vinutia v perzistentnom móde (*Superconducting joints of MgB₂ wires for windings in persistent mode*)

Zodpovedný riešiteľ: Pavol Kováč
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: 2/0017/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0

Čerpané financie: VEGA: 14871 €

Dosiahnuté výsledky:

Búran, M. and Kováč, P.: Numerical modelling and measurement of the E-I characteristics of MgB₂ wire in sub-cooled water ice, *Cryogenics* 143 (2024) 103949.

Melišek, T., Berek, D., Búran, M., Bennár, M., and Kováč, P.: Joining of single-core ex-situ MgB₂/Fe wires by termination architecture, *Cryogenics* 140 (2024) 103857.

Hušek, I., Kováč, P., Melišek, T., Berek, D., and Kopera, L.: Effects of interface angle, added powder and applied deformation on the transport current and structure of scarf joints of single- and multi-core unreacted MgB₂ wires, *Supercond. Sci Technol.* 37 (2024) 37 075016.

5.) Kritické aspekty rastu polovodičových štruktúr pre novú generáciu III-N súčiastok
(*Critical aspects of the growth for a new generation of III-N devices*)

Zodpovedný riešiteľ: Ján Kuzmík
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: 2/0005/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 17659 €

Dosiahnuté výsledky:

Kuzmík, J., Blaho, M., Gregušová, D., Eliáš, P., Pohorelec, O., Hasenöhrl, S., Haščík, Š., Gučmann, F., Zápražný, Z., Dobročka, E., Kyambaki, M., and Konstantinidis, G.: Growth and performance of n⁺⁺ GaN cap layer for HEMTs applications, *Mater. Sci Semicond. Process.* 185 (2025) 108959.

Kuzmík, J., Stoklas, R., Hasenöhrl, S., Dobročka, E., Kučera, M., Eliáš, P., Gučmann, F., Gregušová, D., Haščík, Š., Kaleta, A., Chauvat, M.P., Kret, S., and Ruterana, P.: InN/InAlN heterostructures for new generation of fast electronics, *J. Applied Phys.* 135 (2024) 245701.
Stoklas, R., Šichman, P., Hasenöhrl, S., Gregušová, D., Ťapajna, M., Hudec, B., Gučmann, F., Haščík, Š., Chvála, A., Šatka, A., Yuan, C., Mao, Y., and Kuzmík, J.: Vertical GaN MOS transistors with semi-insulating channel. In: *GaN Marathon 2024. Verona 2024*, pp. 221-222: ISBN 978 88 5495 7435.

Blaho, M., Gregušová, Eliáš, P., Pohorelec, O., Hasenöhrl, S., Haščík, Š., Gučmann, F., Zápražný, Z. 5, Dobročka, E., Kyambaki, M., and Konstantinidis, G., Kuzmík J.: Growth and performance of n⁺⁺ GaN cap layer for HEMTs applications, *IWN 2024, Honolulu, November 4-8, 2024*.
Kuzmík, J., Hasenöhrl, S., Stoklas, R., Dobročka, E., Rosová, A., Kučera, M., Eliáš, P., Gučmann, F., Gregušová, D., Haščík, Š., Kaleta, A., Chauvat, M.P., Kret, S., and Ruterana, P.: InN/InAlN Heterostructures for New Generation of Fast Electronics. In: *GaN Marathon 2024, Verona 2024*, pp. 71-72: ISBN 978 88 5495 7435.

Stoklas, R., Šichman, P., Hasenöhrl, S., Gregušová, D., Ťapajna, M., Hudec, B., Gučmann, F., Haščík, Š., Chvála, A., Šatka, A., Yuan, C., Mao, Y., and Kuzmík, J.: Vertical GaN MOS transistor with semi-insulating channel. In: *Proc. 14th Inter. Conf. Solid State Surfaces Interfaces Conf.* -

6.) Rast a optická charakterizácia 2D materiálov: MoTe₂, WTe₂, PtTe₂ (*Growth and optical characterization of 2D materials: MoTe₂, WTe₂, PtTe₂*)

Zodpovedný riešiteľ: Lenka Pribusová Slušná
Trvanie projektu: 1.1.2023 / 31.12.2025
Evidenčné číslo projektu: 2/0046/23
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 4623 €

7.) Tepelná stabilita supravodivých cievok a filamentovaných REBCO pásov (*Thermal stability of superconducting coils and filamentized REBCO tapes*)

Zodpovedný riešiteľ: Eugen Seiler
Trvanie projektu: 1.1.2024 / 31.12.2026
Evidenčné číslo projektu: 2/0098/24
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 31334 €

Dosiahnuté výsledky:

Gömöry, F. and Šouc, J.: Analysis of current and heat transfer in locations with reduced critical current in coated conductor tape, *Supercond. Sci Technol.* 37 (2024) 095017.

Ries, R., Mošať, M., Gömöry, F., and Hintze, C.: Impact of anticlastic deformation on REBCO tapes wound in multilayer round cable, *IEEE Trans. Applied Supercond.* 34 (2024) 6900105.

Dadhich, A., Fazilleau, P., and Pardo, E.: A novel and fast electromagnetic and electrothermal software for quench analysis of high field magnets, *Supercond. Sci Technol.* 37 (2024) 095024.

Hussain, A., Dadhich, A., and Pardo, E.: Thermal quench modeling of REBCO racetrack coils under either alternating current or short-circuit voltage, *Supercond. Sci Technol.* 37 (2024) 115028.

Pardo, E. and Fazilleau, P.: Fast and accurate electromagnetic modeling of non-insulated and metal-insulated REBCO magnets, *Supercond. Sci Technol.* 37 (2024) 035016.

Srivastava, A.K. and Pardo, E.: Modelling the mechanics of 32 T REBCO superconductor magnet using numerical simulation, *Supercond. Sci Technol.* 37 (2024) 075014.

8.) Príprava, charakterizácia a dopovanie ultratenkých vrstiev dichalkogenidov prechodných

kovov (*Fabrication, characterization, and doping of ultra-thin layers of transition metal dichalcogenides*)

Zodpovedný riešiteľ: Michaela Sojková
Trvanie projektu: 1.1.2021 / 31.12.2024
Evidenčné číslo projektu: 2/0059/21
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 8092 €

Dosiahnuté výsledky:

Hrdá, J., Moško, M., Píš, I., Vojteková, T., Pribusová Slušná, L., Hutár, P., Precner, M., Dobročka, E., Španková, M., Hulman, M., Chromik, Š., Šiffalovič, P., Bondino, F., and Sojková, M.: Investigating structural, optical, and electron-transport properties of lithium intercalated few-layer MoS₂ films: Unraveling the influence of disorder, *Applied Phys. Lett.* 124 (2024) 123101.

9.) Štúdium dynamiky magnetického víru pre využitie v súčiastkach (*Study of magnetic vortex dynamics for device applications*)

Zodpovedný riešiteľ: Ján Šoltýs
Trvanie projektu: 1.1.2022 / 31.12.2024
Evidenčné číslo projektu: 2/0168/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 15933 €

Dosiahnuté výsledky:

Krylov, S., Kalmykova, T., Ščepka, T., and Cambel, V.: Magnetic nanostructures with defined magnetic states fabricated by focused ion beam, *Results in Phys.* 60 (2024) 107669.

10.) Modifikácia vlastností supravodivých, feromagnetických oxidových vrstiev a štruktúr pre modernú elektroniku (*Modification of properties of superconducting, ferromagnetic, oxide films and structures for advanced electronics*)

Zodpovedný riešiteľ: Marianna Španková
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: 2/0140/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 5816 €

Dosiahnuté výsledky:

Bennár, M., Španková, M., Talacko, M., Gregor, M., Kronek, J., and Chromik, Š.: Enhancement of

YBCO superconductivity by chemical surface treatment, *J. Mater. Sci: Mater. Electron.* 35 (2024) 1472.

Hrdá, J., Moško, M., Piš, I., Vojteková, T., Pribusová Slušná, L., Hutár, P., Precner, M., Dobročka, E., Španková, M., Hulman, M., Chromik, Š., Šiffalovič, P., Bondino, F., and Sojková, M.: Investigating structural, optical, and electron-transport properties of lithium intercalated few-layer MoS₂ films: Unraveling the influence of disorder, *Applied Phys. Lett.* 124 (2024) 123101.

11.) Elektronické a optoelektronické súčiastky na báze ultra-širokopásmového Ga₂O₃ polovodiča (*Electronic and optoelectronic devices based on ultra-wide bandgap Ga₂O₃ semiconductor*)

Zodpovedný riešiteľ: Milan Ťapajna
Trvanie projektu: 1.1.2021 / 31.12.2024
Evidenčné číslo projektu: 2/0100/21
Organizácia je áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 17792 €

Dosiahnuté výsledky:

Gucmann, F., Hušeková, K., Rosová, A., Dobročka, E., Egyenes, F., Hrubíšák, F., Keshtkar, J., Chouhan, H., Krettová, M., Eliáš, P., Nádaždy, P., Gregušová, D., Pohorelec, O., Kozak, A., and Ťapajna, M.: Gallium oxide for applications in electronics and optoelectronics. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 13-16. ISBN 978-80-554-2109-4.

Gucmann, F., Hušeková, K., Yuan, C., Xiao, X., Mao, Y., Meng, B., Ma, G., Rosová, A., Dobročka, E., Egyenes, F., Eliáš, P., and Ťapajna, M.: Phase-dependent phonon heat transport in thin-film gallium oxide. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 121-124. ISBN 978-80-554-2109-4.

Chouhan, H., Hušeková, K., Dobročka, E., Ťapajna, M., Keshtkar, J., Pohorelec, O., Hrubíšák, F., Mikolášek, M., and Gučmann, F.: Effect of off-cut sapphire substrate on the structural and optical properties of (-201) β-Ga₂O₃ grown by liquid-injection MOCVD. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 117-120-28. ISBN 978-80-554-2109-4.

Chouhan, H., Egyenes, F., Rosová, A., Hušeková, K., Dobročka, E., Nádaždy, P., Ťapajna, M., Xiao, X., Mao, Y., Meng, B., Ma, G., Yuan, C., and Gučmann, Filip.: Heteroepitaxial growth of (010) ?-Ga₂O₃ON sapphire substrates using ?-Ga₂O₃ template by liquid-injection MOCVD. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 73-76. ISBN 978-80-554-2109-4.

Gucmann, F., Ťapajna, M., Hušeková, K., Dobročka, E., Rosová, A., Nádaždy, P., Eliáš, P., Egyenes, F., Hrubíšák, F., Chouhan, H., Keshtkar, J., Zheng, X., Pomeroy, J.W., Kuball, M., Xiao, X., Mao, Y., Meng, B., Ma, G., and Yuan, C.: Thermal properties of Ga₂O₃ thin films and devices prepared on sapphire and SiC substrates by liquid-injection MOCVD, *Proc. SPIE* 12887 (2024)

1288705.

Xiao, X, Mao, Y., Meng, B., Ma, G., Hušeková, K., Egyenes, F., Rosová, A., Dobročka, E., Eliáš, P., Ťapajna, M., Gucmann, F., and Yuan, C.: Phase-dependent phonon heat transport in nanoscale gallium oxide thin films, *Small*, 2024, vol. 20, no. 2309961.

12.) Nové hybridné polovodičové štruktúry pre detekciu ionizujúceho žiarenia (*New hybrid semiconductor structures for ionizing radiation detection*)

Zodpovedný riešiteľ: Bohumír Zaťko
Trvanie projektu: 1.1.2024 / 31.12.2027
Evidenčné číslo projektu: 2/0063/24
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 16817 €

Dosiahnuté výsledky:

Hrubčín L., Zaťko B., Kováčová E. Silicon radiation detectors with rectifier junction prepared by different technological procedures. In *AIP Conference Proceedings*. – AIP, 2024, vol. 3251, no. 080005.

Kotorová S., Šagátová A. Zaťko B.: Analysis of CdTe detectors via alpha and gamma spectrometry. In *AIP Conference Proceedings*. – AIP, 2024, vol. 3251, no. 080009.

Kurucová N., Šagátová A., Kováčová E., Zaťko B.: Influence of quasi-ohmic electrode on performance of semi-insulating GaAs detectors. In *AIP Conference Proceedings : Applied Physics of Condensed Matter (APCOM 2023)*, 2024, vol. 3054, no. 050005.

Zaťko B., Šagátová A., Kováčová E.: Detection and spectrometric properties of the 4H-SiC Schottky detectors based on thick epitaxial layers. In *AIP Conference Proceedings*. – AIP, 2024, vol. 3251, no. 080006.

Programy: APVV

13.) Optimalizácia okrúhleho kábla z vysokoteplotného supravodiča pre pulzné magnetické polia (*Optimization of round high-temperature superconducting cable for pulse magnetic field*)

Zodpovedný riešiteľ: Fedor Gömöry
Trvanie projektu: 1.7.2021 / 30.6.2025
Evidenčné číslo projektu: 20-0056
Organizácia je koordinátorom projektu: nie
Koordinátor: Materiálovotechnologická fakulta STU
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 22383 €

Dosiahnuté výsledky:

Ries, R., Mošať, M., Gömöry, F., and Hintze, C.: Impact of anticlastic deformation on REBCO tapes wound in multilayer round cable, IEEE Trans. Applied Supercond. 34 (2024) 6900105.

Hulačová, S., Pekarčíková, M., Skarba, M., Frolek, L., and Cuninková, E.: Comparison of AC loss reduction methods based on striation of Ag-stabilized REBCO tapes, IEEE Trans. Applied Supercond. 34 (2024) 5901205.

Cuninková, E., Frolek, L., Šouc, J., Ferenčík, F., Bónová, L., Száraz, Z., Skarba, M., Hulačová, S., Pekarčíková, M., and Šimon, Š.: Characterization of a novel TORT cable wound of stabilized striated REBCO tapes for reduced magnetization AC losses, Supercond. Sci Technol. 37 (2024) 075020.

Gömöry, F. and Šouc, J.: Analysis of current and heat transfer in locations with reduced critical current in coated conductor tape, Supercond. Sci Technol. 37 (2024) 095017.

Gömöry, F., Solovyov, M., Šouc, J., Frolek, L., Kujovič, T., Seiler, E., Ries, R., Mošať, M., Winkler, T., Sugita, K., Dhallé, M., Krooshoop, H.J.G., Hintze, C., Troshyn, A., Prusseit, W., Nedergaard, L., Traberg, L., Christensen, J.J., Jorgensen, N.O., Bahl, C.R.H., and Wulff, A.C.: AC loss reduction in round HTS cables achieved by low-cost filamentization of tape conductors, IEEE Trans. Applied Supercond. 34 (2024) 5901605.

14.) Moderné nanomembránové heteroštruktúry na báze GaAs pre vysoko produktívne vysokofrekvenčné prvky (*Advanced GaAs-based nanomembrane heterostructures for highperformance RF devices*)

Zodpovedný riešiteľ: Dagmar Gregušová
Trvanie projektu: 1.7.2022 / 30.6.2025
Evidenčné číslo projektu: APVV-21-0365
Organizácia je koordinátorom projektu: nie
Koordinátor: STU Bratislava
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 32279 €

Dosiahnuté výsledky:

Gucmann, F., Meng, B., Chvála, A., Kúdela, R., Yuan, C., Ťapajna, M., Florovič, M., Egyenes, F., Eliáš, P., Hrubíša, F., Kováč, J.Jr., Fedor, J., and Gregušová, D.: Improved thermal performance of InGaAs/GaAs nanomembrane HEMTs transferred onto various substrates by epitaxial lift-off, ACS Applied Electron. Mater. 6 (2024) 5651–5660.

15.) Nanoštrukturované tenkovrstvové materiály vyznačujúce sa slabými väzbovými interakciami pre elektronické a senzorické aplikácie (*Nanostructured thin-film materials characterized by weak binding interactions for electronic and sensoric applications*)

Zodpovedný riešiteľ: Dagmar Gregušová
Trvanie projektu: 1.7.2022 / 30.6.2026
Evidenčné číslo projektu: APVV-21-0278
Organizácia je koordinátorom projektu: nie

Koordinátor: STU Bratislava
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 24870 €

16.) Moderné elektronické súčiastky na báze ultraširokopásmového polovodiča Ga2O3 pre budúce vysokonapäťové aplikácie (*Modern electronic devices based on ultrawide bandgap semiconducting Ga2O3 for future high-voltage applications*)

Zodpovedný riešiteľ: Filip Gučmann
Trvanie projektu: 1.7.2021 / 30.6.2025
Evidenčné číslo projektu: 20-0220
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: APVV: 33025 €

Dosiahnuté výsledky:

Gučmann, F., Hušeková, K., Rosová, A., Dobročka, E., Egyenes, F., Hrubíšák, F., Keshtkar, J., Chouhan, H., Krettová, M., Eliáš, P., Nádaždy, P., Gregušová, D., Pohorelec, O., Kozak, A., and Ťapajna, M.: Gallium oxide for applications in electronics and optoelectronics. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 13-16. ISBN 978-80-554-2109-4.

Gučmann, F., Hušeková, K., Yuan, C., Xiao, X., Mao, Y., Meng, B., Ma, G., Rosová, A., Dobročka, E., Egyenes, F., Eliáš, P., and Ťapajna, M.: Phase-dependent phonon heat transport in thin-film gallium oxide. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 121-124. ISBN 978-80-554-2109-4.

Chouhan, H., Hušeková, K., Dobročka, E., Ťapajna, M., Keshtkar, J., Pohorelec, O., Hrubíšák, F., Mikolášek, M., and Gučmann, F.: Effect of off-cut sapphire substrate on the structural and optical properties of (-201) β -Ga2O3 grown by liquid-injection MOCVD. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 117-120-28. ISBN 978-80-554-2109-4.

Chouhan, H., Egyenes, F., Rosová, A., Hušeková, K., Dobročka, E., Nádaždy, P., Ťapajna, M., Xiao, X., Mao, Y., Meng, B., Ma, G., Yuan, C., and Gučmann, Filip.: Heteroepitaxial growth of (010) β -Ga2O3ON sapphire substrates using β -Ga2O3 template by liquid-injection MOCVD. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 73-76. ISBN 978-80-554-2109-4.

Xiao, X., Mao, Y., Meng, B., Ma, G., Hušeková, K., Egyenes, F., Rosová, A., Dobročka, E., Eliáš, P., Ťapajna, M., Gučmann, F., Yuan, C.: Phase-dependent phonon heat transport in nanoscale gallium oxide thin films. In Small, 2024, vol. 20, no. 2309961

Gučmann, F., Meng, B., Chvála, A., Kúdela, R., Yuan, C., Ťapajna, M., Florovič, M., Egyenes, F., Eliáš, P., Hrubíšák, F., Kováč, J.Jr., Fedor, J., and Gregušová, D.: Improved thermal performance of InGaAs/GaAs nanomembrane HEMTs transferred onto various substrates by epitaxial lift-off, ACS Applied Electron. Mater. 6 (2024) 5651–5660.

Gucmann, F., Ľapajna, M., Hušeková, K., Dobročka, E., Rosová, A., Nádaždy, P., Eliáš, P., Egyenes, F., Hrubíšák, F., Chouhan, H., Keshtkar, J., Zheng, X., Pomeroy, J.W., Kuball, M., Xiao, X., Mao, Y., Meng, B., Ma, G., and Yuan, C.: Thermal properties of Ga₂O₃ thin films and devices prepared on sapphire and SiC substrates by liquid-injection MOCVD, Proc. SPIE 12887 (2024) 1288705.

Varga, M., Keshtkar, J., Hušeková, K., Sharma, D., Szabó, O. Aubrechtová Dragounová, K., Cora, I., Gučmann, F., Ľapajna, M., Kromka, A. Polycrystalline Ga₂O₃/diamond heterojunctions for next-generation deep-uv solar-blind photodetectors: a comparative study of growth approaches. In NANOCON 2024 : Abstracts. Different Authors. – Ostrava : TANGER Ltd., 2024, p. 80. ISBN 978-80-88365-20-4.

17.) Optimalizovaný rast a transportné a optické vlastnosti tenkých vrstiev vybraných topologických polokovov (*Optimised growth and the transport and optical properties of thin layers of selected topological semimetals*)

Zodpovedný riešiteľ: Martin Hulman
Trvanie projektu: 1.7.2024 / 30.6.2027
Evidenčné číslo projektu: APVV-23-0564
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 14040 €

18.) Ternárne chalkogenidové perovskity pre fotovoltaiiku (*Ternary chalcogenide perovskites for photovoltaics*)

Zodpovedný riešiteľ: Štefan Chromik
Trvanie projektu: 1.7.2024 / 30.6.2028
Evidenčné číslo projektu: APVV-23-0202
Organizácia je koordinátorom projektu: nie
Koordinátor: Univerzita Komenského v Bratislave - Prírodovedecká fakulta
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: APVV: 3389 €

19.) Farebné centrá v diamante – korelácia medzi atómovou štruktúrou a optoelektronickými vlastnosťami (*Colour centres in diamond – correlation between atomic structure and optoelectronic properties*)

Zodpovedný riešiteľ: Tibor Izsák
Trvanie projektu: 1.9.2024 / 31.12.2027
Evidenčné číslo projektu: APVV-23-0361
Organizácia je koordinátorom projektu: áno

Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 13417 €

Dosiahnuté výsledky:

Kromka, A., Varga, M., Dragounova, K., Babcenko, O., Pfeifer, R., Flatae, A.M., Sledz, F., Akther, F., Agio, M., Potocky, S?., and Stehlík, S?.: High-yield production of SiV-doped nanodiamonds for spectroscopy and sensing applications, ACS Applied Nano Mater. 7 (2024) 24766-24777.

20.) p-GaN elektronika pre úsporu energie a post-CMOS obvody (*p-GaN electronics for energy savings and beyond-CMOS circuits*)

Zodpovedný riešiteľ: Ján Kuzmík
Trvanie projektu: 1.7.2022 / 30.6.2025
Evidenčné číslo projektu: APVV-21-0008
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 63982 €

Dosiahnuté výsledky:

Kuzmík, J., Stoklas, R., Hasenöhrl, S., Dobročka, E., Kučera, M., Eliáš, P., Gucmann, F., Gregušová, D., Haščík, Š., Kaleta, A., Chauvat, M.P., Kret, S., and Ruterana, P.: InN/InAlN heterostructures for new generation of fast electronics, J. Applied Phys. 135 (2024) 245701.

Kuzmík, J., Hasenöhrl, S., Stoklas, R., Dobročka, E., Rosová, A., Kučera, M., Eliáš, P., Gucmann, F., Gregušová, D., Haščík, Š., Kaleta, A., Chauvat, M.P., Kret, S., and Ruterana, P.: InN/InAlN Heterostructures for New Generation of Fast Electronics. In: GaN Marathon 2024, Verona 2024, pp. 71-72: ISBN 978 88 5495 7435.

21.) Robustné spinové vlny pre budúce magnonické aplikácie (*Robust spin waves for future magnonic applications*)

Zodpovedný riešiteľ: Michal Mruczkiewicz
Trvanie projektu: 1.7.2020 / 30.6.2024
Evidenčné číslo projektu: 19-0311
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 3406 €

22.) Fotonické laboratórium na čipe: výskum a vývoj platformy plazmonického senzora pre okamžitú detekciu zložiek v roztokoch (*Photonic Lab-on-a-Chip: investigation and development of plasmonic sensor platform for immediate detection of composites in solutions*)

Zodpovedný riešiteľ: Jozef Novák
Trvanie projektu: 1.7.2021 / 31.12.2024
Evidenčné číslo projektu: 20-0437
Organizácia je koordinátorom projektu: nie
Koordinátor: FEI STU Bratislava
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 5326 €

Dosiahnuté výsledky:

Novák, J., Rosová, A., Hasenöhrl, S., Lettrichová, I., and Pudiš, D.: Nanoprobes based on 3D gap nanocones prepared by integration on single mode fiber. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 25-28. ISBN 978-80-554-2109-4.

23.) Nanooptické sondy a senzory integrované na optickom vlákne (*Nano-optical probes and sensors integrated on optical fiber*)

Zodpovedný riešiteľ: Jozef Novák
Trvanie projektu: 1.8.2021 / 31.12.2024
Evidenčné číslo projektu: 20-0264
Organizácia je koordinátorom projektu: nie
Koordinátor: Žilinská univerzita v Žiline
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 5379 €

Dosiahnuté výsledky:

Novák, J., Rosová, A., Hasenöhrl, S., Lettrichová, I., and Pudiš, D.: Nanoprobes based on 3D gap nanocones prepared by integration on single mode fiber. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 25-28. ISBN 978-80-554-2109-4.

24.) Štúdium 2D heteroštruktúr na báze TMD (*Study of TMD-based 2D heterostructures (TO-DO)*)

Zodpovedný riešiteľ: Michaela Sojková
Trvanie projektu: 1.7.2024 / 30.6.2026
Evidenčné číslo projektu: SK-AT-23-0021
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 774 €

25.) Topologicky netriviálne magnetické a supravodivé nanoštruktúry (*Topologically nontrivial magnetic and superconducting nanostructures*)

Zodpovedný riešiteľ: Ján Šoltýs
Trvanie projektu: 1.7.2021 / 31.12.2024

Evidenčné číslo projektu: 20-0425
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká fakulta, UPJŠ Košice
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 15640 €

26.) Vplyv aplikácie organických molekúl na vlastnosti perovskitovských tenkovrstvových štruktúr (*Effect of the application of organic molecules on the properties of perovskite thin-film structures*)

Zodpovedný riešiteľ: Marianna Španková
Trvanie projektu: 1.7.2024 / 31.12.2027
Evidenčné číslo projektu: APVV-23-0238
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 13062 €

27.) Tranzistory na báze 2D kovových chalkogenidov pripravených teplom podporovanou konverziou (*Transistors based on 2D Metal Chalcogenides Grown via Thermally Assisted Conversion*)

Zodpovedný riešiteľ: Milan Ľapajna
Trvanie projektu: 1.7.2022 / 30.6.2026
Evidenčné číslo projektu: APVV-21-0231
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 44000 €

Dosiahnuté výsledky:

Hrdá, J., Moško, M., Píš, I., Vojteková, T., Pribusová Slušná, L., Hutár, P., Precner, M., Dobročka, E., Španková, M., Hulman, M., Chromik, Š., Šiffalovič, P., Bondino, F., and Sojková, M.: Investigating structural, optical, and electron-transport properties of lithium intercalated few-layer MoS₂ films: Unraveling the influence of disorder, *Applied Phys. Lett.* 124 (2024) 123101.

Ivashchenko, V.I., Onoprienko, A.A., Skrynskyy, P.L., Kozak, A.O., Vedel, V., Mazur, P.V., Sinelnichenko, A.K., Buranych, V.V., and Pogrebnjak, A.D.: Structure and properties of (TiZrHfNbTa)B₂ films and first-principles models for high entropy diborides, *Thin Solid Films* 803 (2024) 140478.

Smyrnova, K., Ivashchenko, V.I., Sahul, M., Čaplovič, Ľ., Skrynskyi, P., Kozak, A.O., Konarski, P., Koltunowicz, T.N., Galaszkiwicz, P., Bondariev, V., Zukowski, P., Budzynski, P., Borba-Pogrebnjak, S., Kamiński, M., Bónová, L., Beresnev, V., and Pogrebnjak, A.: Microstructural,

electrical, and tribomechanical properties of Mo-W-C nanocomposite films, *Nanomater.* 14 (2024) 1061.

Smyrnova, K., Sahul, M., Haršáni, M., Beresnev, V., Truchlý, M., Čaplovič, L', Čaplovičová, M., Kusý, M., Kozak, A., Flock, D., Kassymbaev, A., and Pogrebnjak, A. Composite Materials with Nanoscale Multilayer Architecture Based on Cathodic-Arc Evaporated WN/NbN Coatings, *ACS Omega* 5 (2024) 17247-17265.

28.) Perspektívne detektory ionizujúceho žiarenia pre nepokryté energetické okno neutrónov *(Perspective ionizing radiation detectors for the uncovered neutron energy window)*

Zodpovedný riešiteľ: Bohumír Zaťko
Trvanie projektu: 1.7.2023 / 30.6.2027
Evidenčné číslo projektu: APVV-22-0382
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 40602 €

Dosiahnuté výsledky:

Hrubčín, L., Zaťko, B., and Kováčová, E.: Silicon radiation detectors with rectifier junction prepared by different technological procedures, *AIP Conf. Proc.* 3251 (2024) 080005.

Šagátová, A., Kováčová, E., Benčurová, A., Konečníková, A., Gregušová, D., Nečas, V., and Zaťko, B.: The bias effect on alpha spectrometry of very thin semi-insulating GaAs detectors, *AIP Conf. Proc.* 3251 (2024) 080010.

Šagátová, A., Fülöp, M., Novák, A., Vrban, B., Lüley, J., Čerba, Š., Benkovský, I., and Zaťko, B.: Conversion of fast neutrons for neutron radiography with TPX2 detector, *Nukleonika* 69 (2024) 135-140.

Zaťko, B., Šagátová, A., and Kováčová, E.: Detection and spectrometric properties of the 4H-SiC Schottky detectors based on thick epitaxial layers, *AIP Conf. Proc.* 3251 (2024) 080006.

Kurucová, N., Šagátová, A., Granja, C., Hladík, D., and Zaťko, B.: Comparison of increased temperature on timepix3 detector with SiC vs Si sensor, *AIP Conf. Proc.* 3251 (2024) 070001.

Kotorová, S., Šagátová, A., and Zaťko, B.: Analysis of CdTe detectors via alpha and gamma spectrometry, *AIP Conf. Proc.* 3251 (2024) 080009.

Zaťko B., Varga M., Koováčová E., Šagátová A.: A study of particle detectors based on single crystal diamond substrate. In *Journal of Instrumentation*, 2024, vol. 19, no. C11016.

29.) Rastové a radiačné mechanizmy v diamantových hybridných detektoroch *(Growth and Radiation Mechanisms in Diamond Hybrid Detectorsd Radiation Mechanisms in Diamond Hybrid Detectors)*

Zodpovedný riešiteľ: Bohumír Zaťko
Trvanie projektu: 1.7.2022 / 30.6.2025

Evidenčné číslo projektu: SK-CZ-RD_21/0016
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Česko: 1
Čerpané financie: APVV: 44558 €

Dosiahnuté výsledky:

Hrubčín L., Zaťko B., Kováčová E. Silicon radiation detectors with rectifier junction prepared by different technological procedures. In AIP Conference Proceedings. – AIP, 2024, vol. 3251, no. 080005.

Kotorová S., Šagátová A. Zaťko B.: Analysis of CdTe detectors via alpha and gamma spectrometry. In AIP Conference Proceedings. – AIP, 2024, vol. 3251, no. 080009.

Kurucová N., Šagátová A., Kováčová E., Zaťko B.: Influence of quasi-ohmic electrode on performance of semi-insulating GaAs detectors. In AIP Conference Proceedings : Applied Physics of Condensed Matter (APCOM 2023), 2024, vol. 3054, no. 050005.

Zaťko B., Šagátová A., Kováčová E.: Detection and spectrometric properties of the 4H-SiC Schottky detectors based on thick epitaxial layers. In AIP Conference Proceedings. – AIP, 2024, vol. 3251, no. 080006.

Zaťko B., Varga M., Kováčová E., Šagátová A.: A study of particle detectors based on single crystal diamond substrate. In Journal of Instrumentation, 2024, vol. 19, no. C11016.

Programy: Iné projekty

30.) Výskum a vývoj pokročilého QCM-FET duálneho senzora reaktivovaného na báze diamantových vrstiev pre detekciu plynov a biomolekúl (*Research and development of advanced for defiction of gases and biomolecules*)

Zodpovedný riešiteľ: Tibor Izsák
Trvanie projektu: 1.1.2023 / 31.12.2024
Evidenčné číslo projektu: CAS-SAS-2022-9
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Česko: 1
Čerpané financie: SAV: 1500 €

Dosiahnuté výsledky:

Izsák, T., Varga, M., Kočí, M., Szabó, O., Aubrechtová Dragounová, K., Vanko, G., Gál, M., Korčeková, J., Hornychová, M., Poturnayová, A., Kromka, A., Diamond-coated quartz crystal microbalance sensors: challenges in high yield production and enhanced detection of ethanol and sars-cov-2 proteins, Materials & Design 248 (2024) 113474. (Q1, IF 7.6)

Kočí, M., Procházka, V., Szabó, O., Kulha, P., Kromka, A., and Husák, M.: Hybrid Gas sensor based on diamond-coated QCM with ink-jet printed IDT electrodes. In: 16th Inter. Conf. on

Programy: Vedecko-technické projekty

31.) Príprava a vlastnosti supravodivých a magnetických oxidových vrstiev pre moderné elektronické aplikácie (*Preparation and properties of superconducting and magnetic oxide films for modern electronic applications*)

Zodpovedný riešiteľ: Štefan Chromik
Trvanie projektu: 1.1.2023 / 31.12.2024
Evidenčné číslo projektu: SAV-PAV
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Poľsko: 1
Čerpané financie: SAV: 1500 €

Dosiahnuté výsledky:

Programy: DoktoGrant

32.) Štúdium spinových filtrov vytvorených pomocou aplikácie organických molekúl na perovskity (*Study of the influence induced by organic-based spin filters applied on perovskites*)

Zodpovedný riešiteľ: Michal Bennár
Trvanie projektu: 1.1.2024 / 31.12.2024
Evidenčné číslo projektu: APP473
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 1999 €

Dosiahnuté výsledky:

Bennár, M., Španková, M., Talacko, M., Gregor, M., Kronek, J., and Chromik, Š.: Enhancement of YBCO superconductivity by chemical surface treatment, *J. Mater. Sci: Mater. Electron.* 35 (2024) 1472.

Programy: MoRePro

33.) Heteroštruktúry TMD/diamant: Príprava, charakterizácia a aplikácia (*TMD/diamond heterostructures: Fabrication, characterization and applications*)

Zodpovedný riešiteľ: Marian Varga
Trvanie projektu: 1.8.2020 / 31.7.2024
Evidenčné číslo projektu: 19MRP0010
Organizácia je koordinátorom projektu: áno

Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 16534 €

Dosiahnuté výsledky:

Aguedo, J., Vojs, M., Vrška, M., Nemcovic, M., Pakanova, Z., Dragounova, K.A., Romanyuk, O., Kromka, A., Varga, M., Hatala, M., Marton, M., and Tkáč, J.: What are the key factors for the detection of peptides using mass spectrometry on boron-doped diamond surfaces?, *Nanomater.* 14 (2024) 1241.

Izsák, T., Varga, M., Kočí, M., Szabó, O., Aubrechtová Dragounová, K., Vanko, G., Gál, N., Korčeková, J., Hornychová, M., Poturnayová, A., and Kromka, A.: Diamond-coated quartz crystal microbalance sensors: Challenges in high yield production and enhanced detection of ethanol and sars-cov-2 proteins, *Materials & Design* 248 (2024), 113474.

Programy: IMPULZ

34.) Cenovo dostupné fotodetektory s heteroprechodom Ga₂O₃-diamant pre UV zobrazovanie necitlivé na slnečné svetlo (*Cost-effective Ga₂O₃-diamond heterojunction photodetectors for solar-blind UV imaging*)

Zodpovedný riešiteľ: Marian Varga
Trvanie projektu: 1.8.2024 / 30.7.2029
Evidenčné číslo projektu: IM-2023-87
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 35975 €

Programy: Plán obnovy EÚ

35.) Veľkoplošná výroba a charakterizácia 2D materiálov (*Large-scale production and characterization of 2D materials*)

Zodpovedný riešiteľ: Faizan Ahmad
Trvanie projektu: 1.9.2023 / 30.6.2026
Evidenčné číslo projektu: 09I03-03-V02-00044
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Výskumná agentúra: 15910 €

36.) Memristívna sensorika pre post-digitálnu elektroniku (*Memristive sensorics for post-digital electronics*)

Zodpovedný riešiteľ: Mohammad Dehghan
Trvanie projektu: 1.9.2023 / 30.6.2026
Evidenčné číslo projektu: 09I03-03-V02-00044
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Výskumná agentúra: 14237 €

37.) Supravodivé energetické káble (*Superconducting energy cables*)

Zodpovedný riešiteľ: Fedor Gömöry
Trvanie projektu: 1.4.2024 / 31.3.2026
Evidenčné číslo projektu: 09I01-03-V04 -00020
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Výskumná agentúra: 43367 €

38.) Smart senzory plynu a teploty s nízko-úrovňovým in-sensor spracovaním dát na báze neurónovej siete (*Smart gas and temperature sensors with neural-network-based low-level in-sensor data processing capability*)

Zodpovedný riešiteľ: Boris Hudec
Trvanie projektu: 1.1.2024 / 30.6.2026
Evidenčné číslo projektu: 09I05-03-V02-00058
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: -

39.) Štipendiá pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine (*Scholarships for excellent researchers threatened by the war conflict in Ukraine*)

Zodpovedný riešiteľ: Tetiana Kalmykova
Trvanie projektu: 1.4.2022 / 31.3.2025
Evidenčné číslo projektu: 09I03-03-V01-00006
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Výskumná agentúra: 37938 €

40.) Pokročilé nízkotrecie povlaky na báze ultratenkých 2D-TMDC pre extrémne podmienky
(*Lubrication challenge for ultra-thin advanced 2D-TMDC in extreme conditions*)

Zodpovedný riešiteľ: Andrii Kozak
Trvanie projektu: 1.7.2024 / 30.6.2026
Evidenčné číslo projektu: 09I03-03-V04-00709
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Výskumná agentúra: 14236 €

41.) InN: prielom v elektronike tuhej fázy (*InN: Breaking the Limits of Solid-State Electronics*)

Zodpovedný riešiteľ: Ján Kuzmík
Trvanie projektu: 1.11.2023 / 30.6.2026
Evidenčné číslo projektu: 09I01-03-V04 -00019
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Výskumná agentúra: 26261 €

42.) Pokročilé hybridné superkondenzátorové prvky na báze 2D materiálov (*Advanced 2D based hybrid supercapacitor devices*)

Zodpovedný riešiteľ: Michaela Sojková
Trvanie projektu: 1.3.2024 / 30.6.2026
Evidenčné číslo projektu: 09I05-03-V02-00037
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: -

43.) Využitie energie riek pre každého (*Harnessing the energy of rivers for everyone*)

Zodpovedný riešiteľ: Mykola Soloviov
Trvanie projektu: 1.10.2024 / 31.3.2026
Evidenčné číslo projektu: 09I04-03-V03-00001
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 4 - Slovensko: 4

inštitúcií:
Čerpané financie: -

44.) Výskum technológie výroby nízkonákladových polovodičových zariadení na báze oxidov pre IoT a senzorové aplikácie (*Research of fabrication technology for low-cost oxide-based semiconductorelectronic devices for IoT and sensor applications*)

Zodpovedný riešiteľ: Milan Ťapajna
Trvanie projektu: 1.1.2024 / 30.6.2026
Evidenčné číslo projektu: 09I05-03-V02-00030
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: -

45.) Nové polovodičové materiály pre pixelové senzory s využitím pre digitálnu rádiografiu (*New semiconductor materials for pixel sensors with applications in digital radiography*)

Zodpovedný riešiteľ: Bohumír Zaťko
Trvanie projektu: 1.1.2024 / 30.6.2026
Evidenčné číslo projektu: 09I05-03-V02-00073
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: -

46.) Perspektívne detektory ionizujúceho žiarenia pre vysoko-energetické (*Perspective ionizing radiation detectors for high-energy particles*)

Zodpovedný riešiteľ: Bohumír Zaťko
Trvanie projektu: 1.7.2024 / 30.6.2026
Evidenčné číslo projektu: 09I03-03-V06-00108
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Programy: PostdokGrant

47.) Ťahové a tlakové limity REBCO supravodiča – metodológia (*REBCO superconductor tensile and compressive limits - methodology*)

Zodpovedný riešiteľ: Tomáš Kujovič
Trvanie projektu: 1.7.2024 / 31.12.2025
Evidenčné číslo projektu: APD0064
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 8861 €

48.) Vplyv substrátu na teplotné nestability pri kladnom napätí v obohacovacích Al₂O₃/InAlN/GaN MOSHEMT-och (*Impact of substrate material on positive bias temperature instabilities in enhancement mode Al₂O₃/InAlN/GaN MOSHEMTs*)

Zodpovedný riešiteľ: Ondrej Pohorelec
Trvanie projektu: 1.7.2024 / 31.12.2025
Evidenčné číslo projektu: 24183001
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 6045 €

49.) Nízkotepelné merania pomocou Ramanovej a Infračervenej spektroskopie: MoTe₂, WTe₂, PtSe₂ (*Raman and FTIR low-temperature study of PtSe₂, MoTe₂ and WTe₂ thin films*)

Zodpovedný riešiteľ: Lenka Pribusová Slušná
Trvanie projektu: 1.7.2024 / 31.12.2025
Evidenčné číslo projektu: APD0021
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 4205 €

50.) Výroba feromagnetických nanoštruktúr pre magnónový kryštál (*Fabrication of ferromagnetic nanostructures for magnonic crystal*)

Zodpovedný riešiteľ: Iuliia Vetrova
Trvanie projektu: 1.7.2024 / 31.12.2025
Evidenčné číslo projektu: 24182002
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0

Čerpané financie:

SAV: 4943 €

Publikačná činnosť organizácie

Príloha je generovaná z ARL.

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

- ADCA01 ADIPUTRA, Richard - CHEN, Yi-Hung - WU, Shang-Ru - VANKO, Gabriel - ANDOK, Robert - TSAI, Hung-Yin. Study on fabrication of force transducer based on carbon nano-flake balls. In Nanotechnology, 2024, vol. 35, art. no. 035503. (2023: 2.9 - IF, Q2 - JCR, 0.631 - SJR, Q2 - SJR). ISSN 0957-4484. Dostupné na: <https://doi.org/10.1088/1361-6528/ad0050>
- ADCA02 AGUEDO, Juvisan - VOJS, Marián - VRŠKA, Martin - NEMČOVIČ, Marek - PAKANOVÁ, Zuzana - AUBRECHTOVÁ DRAGONOVÁ, Kateřina - ROMANYUK, Oleksandr - KROMKA, Alexander - VARGA, Marian - HATALA, Michal - MARTON, Marián - TKÁČ, Ján. What Are the Key Factors for the Detection of Peptides Using Mass Spectrometry on Boron-Doped Diamond Surfaces? In Nanomaterials-Basel, 2024, vol.14, art. no. 1241. (2023: 4.4 - IF, Q2 - JCR, 0.798 - SJR, Q1 - SJR). ISSN 2079-4991. Dostupné na: <https://doi.org/10.3390/nano14151241>
- ADCA03 ASIMAKOPOULOU, E.M.** - BELLUCCI, V. - BIRNSTEINOVA, S. - YAO, Z.H. - ZHANG, Yu - PETROV, Ivo - DEITER, C. - MAZZOLARI, A. - ROMAGNONI, M. - KORYTÁR, Dušan - ZÁPRAŽNÝ, Zdenko - KUGLEROVÁ, Zuzana - JUHA, Libor - LUKIČ, B. - RACK, A. - SAMOYLOVA, L. - GARCIA-MORENO, F. - HALL, S. - NEU, T. - LIANG, X. - VAGOVIČ, Patrik - VILLANUEVA-PEREZ, P. Development towards high-resolution kHz-speed rotation-free volumetric imaging. In Optics Express, 2024, vol. 32, no. 3, pp. 4413-4426. (2023: 3.2 - IF, Q2 - JCR, 0.998 - SJR, Q1 - SJR). ISSN 1094-4087. Dostupné na: <https://doi.org/10.1364/OE.510800> (VEGA 2/0041/21)
- ADCA04 BELLUCCI, V.** - BIRNSTEINOVA, S. - SATO, T. - LETRUN, R. - KOLIYADU, J.C.P. - KIM, C.G. - GIOVANETTI, G. - DEITER, C. - SAMOYLOVA, L. - PETROV, Ivo - MORILLO, L.L. - GRACEFFA, R. - ADRIANO, L. - HUELSEN, H. - KOLLMANN, Heinz A. - CALLISTE, T.N.T. - KORYTÁR, Dušan - ZÁPRAŽNÝ, Zdenko - MAZZOLARI, A. - ROMAGNONI, M. - ASIMAKOPOULOU, E.M. - YAO, Z.H. - ZHANG, Yadan - ULICNY, J. - MEENTS, A. - CHAPMAN, Henry N. - BEAN, R. - MANCUSO, A.P. - VILLANUEVA-PEREZ, P. - VAGOVIČ, Patrik. Development of crystal optics for X-ray multi-projection imaging for synchrotron and XFEL sources. In Journal of Synchrotron Radiation, 2024, vol. 31, p. 1534-1550. (2023: 2.4 - IF, Q2 - JCR, 1.029 - SJR, Q1 - SJR). ISSN 1600-5775. Dostupné na: <https://doi.org/10.1107/S1600577524008488> (VEGA 2/0041/21)
- ADCA05 BENNÁR, Michal - ŠPANKOVÁ, Marianna** - TALACKO, Marcel - GREGOR, M. - KRONEK, Juraj - CHROMIK, Štefan. Enhancement of YBCO superconductivity by chemical surface treatment. In Journal of Materials Science. Materials in Electronics, 2024, vol. 35, no. 21, art.no. 1472, [8] p. (2023: 2.8 - IF, Q2 - JCR, 0.512 - SJR, Q2 - SJR). ISSN 0957-4522. Dostupné na: <https://doi.org/10.1007/s10854-024-13243-7> (VEGA 2/0140/22. APVV 19-0303)
- ADCA06 BEŇO, Milan - BEŇOVÁ-LISZEKOVÁ, Denisa - KOSTIČ, Ivan - ŠERÝ, Michal - MENTELOVÁ, Lucia - PROCHÁZKA, Michal - ŠOLTÝS, Ján - TRUSINOVÁ, Ľudmila - RITOMSKÝ, Mário - OROVČÍK, Ľubomír - JERIGOVÁ, Monika - VELIČ, Dušan - MACHATA, Peter - OMASTOVÁ, Mária - CHASE, Bruce A. -

- FARKAŠ, Robert**. Gross morphology and adhesion-associated physical properties of Drosophila larval salivary gland glue secretion. In Scientific Reports, 2024, vol. 14, no. 1, art. no. 9779, [27]p. (2023: 3.8 - IF, Q1 - JCR, 0.9 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-57292-8> (VEGA 2/0103/17 : Molekulárno-mechanistické aspekty fungovania komplexu vývinovo-spriahnutých malát dehydrogenáz u Drosophila melanogaster. COST action CA15216 : Sekretorické proteíny slinných žliaz Drosophila ako biodegradovateľné prírodné lepidlo s programovateľnými vlastnosťami. APVV-16-0219 : Identifikácia molekulárno-genetických determinantov apokrinnej sekrécie)
- ADCA07 BRUZEK, C.-E.** - SPINA, T. - MELACCIO, U. - TROPEANO, M - MARIAN, A. - MORANDI, A. - GÖMÖRY, Fedor - KOVÁČ, Pavol - REISER, W. - HOLLE, S. - LALLOUET, N. - IANNACCONE, T. - ROUDAUT, J. - MAGNUSSON, N. MgB2-based MVDC superconducting power cable in liquid hydrogen for hybrid energy distribution. In IEEE Transactions on Applied Superconductivity, 2024, vol. 34, no. 6200405. (2023: 1.7 - IF, Q3 - JCR, 0.5 - SJR, Q2 - SJR). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2023.3347216>
- ADCA08 BÚRAN, Marek** - KOVÁČ, Pavol. Numerical modelling and measurement of the E-I characteristics of MgB2 wire in sub-cooled water ice. In Cryogenics, 2024, vol. 143, no. 103949. (2023: 1.8 - IF, Q3 - JCR, 0.483 - SJR, Q2 - SJR). ISSN 0011-2275. Dostupné na: <https://doi.org/10.1016/j.cryogenics.2024.103949> (VEGA 2/0017/22)
- ADCA09 CUNINKOVÁ, E.** - FROLEK, Lubomír - ŠOUC, Ján - FERENČÍK, F. - BÓNOVÁ, L. - SZÁRAZ, Z. - SKARBA, M. - HULAČOVÁ, S. - PEKARČÍKOVÁ, M. - ŠIMON, Š. Characterization of a novel TORT cable wound of stabilized striated REBCO tapes for reduced magnetization AC losses. In Superconductor Science and Technology, 2024, vol. 37, no. 075020. (2023: 3.7 - IF, Q2 - JCR, 1.056 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad52f6> (APVV 20-0056. VEGA 1/0205/21)
- ADCA10 DADHICH, Anang** - FAZILLEAU, P. - PARDO, Enric. A novel and fast electromagnetic and electrothermal software for quench analysis of high field magnets. In Superconductor Science and Technology, 2024, vol. 37, no. 095024. (2023: 3.7 - IF, Q2 - JCR, 1.056 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad68d3>
- ADCA11 DADHICH, Anang** - GRILLI, F. - DENNIS, L. - VANDERHEYDEN, B. - GEUZAIN, C. - TRILLAUD, F. - SOTNIKOV, D. - SALMI, T. - HAJIRI, G. - BERGER, K. - BENKEL, T. - DOS SANTOS, G. - DOS SANTOS, B.M.O. - MARTINS, F.G.R. - HUSSAIN, Arif - PARDO, Enric. Electromagnetic-thermal modeling of high-temperature superconducting coils with homogenized method and different formulations: a benchmark. In Superconductor Science and Technology, 2024, vol. 37, no. 125006. (2023: 3.7 - IF, Q2 - JCR, 1.056 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad8315>
- ADCA12 EVSEEV, S.A.** - CHERNYSHEV, B.A. - GUROV, J.B. - DOVBNENKO, M.S. - ZAMIATIN, N.I. - KOPYLOV, Y.A. - ROZOV, S.V. - SANDUKOVSKY, V.G. - HRUBČÍN, Ladislav - ZATKO, Bohumír. Radiation damage of SiC detectors irradiated with Xe ions and neutrons. In Physics of atomic nuclei, 2023, vol.86, iss. 5, pp. 841-844. (2022: 0.4 - IF, Q4 - JCR, 0.238 - SJR, Q3 - SJR). ISSN 1063-7788. Dostupné na: <https://doi.org/10.1134/S1063778823050150>
- ADCA13 GÖMÖRY, Fedor** - SOLOVYOV, Mykola - ŠOUC, Ján - FROLEK, Lubomír - KUJOVIČ, Tomáš - SEILER, Eugen - RIES, Rastislav - MOŠAŤ, Marek - WINKLER, T. - SUGITA, K. - DHALLÉ, M. - KROOSHOO, H.J.G. - HINTZE, C. - TROSHYN, A. - PRUSSEIT, W. - NEDERGAARD, L. - TRABERG, L. -

- CHRISTENSEN, J. - JORGENSEN, N.O. - BAHL, C.R.H. - WULFF, A.C. AC loss reduction in round HTS cables achieved by low-cost filamentization of tape conductors. In IEEE Transactions on Applied Superconductivity, 2024, vol. 34, no. 5, art. no. 5901605. (2023: 1.7 - IF, Q3 - JCR, 0.5 - SJR, Q2 - SJR). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2024.3364133> (VEGA 1/0205/21. APVV 20-0056)
- ADCA14 GÖMÖRY, Fedor** - ŠOUC, Ján. Analysis of current and heat transfer in locations with reduced critical current in coated conductor tape. In Superconductor Science and Technology, 2024, vol. 37, no. 095017. (2023: 3.7 - IF, Q2 - JCR, 1.056 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad6484>
- ADCA15 GRANJA, C. - BARBER, C. - BARNA, S. - CHANCELLOR, J. - CHVATIL, David - ZÁTKO, Bohumír. Detection resolving power of SiC Timepix3 detector to electrons, neutrons, ions and protons. In Journal of Instrumentation : 25th International Workshop on Radiation Imaging Detectors, 2024, vol. 19, no. C11007. (2023: 1.3 - IF, Q3 - JCR, 0.58 - SJR, Q2 - SJR). ISSN 1748-0221. Dostupné na: <https://doi.org/10.1088/1748-0221/19/11/C11007>
- ADCA16 GUCCMANN, Filip - MENG, Baozhong - CHVÁLA, A. - KÚDELA, Róbert - YUAN, C. - ĎAPAJNA, Milan - FLOROVÍČ, M. - EGYENES, Fridrich - ELIÁŠ, Peter - HRUBIŠÁK, Fedor - KOVÁČ, Jaroslav Jr. - FEDOR, Ján - GREGUŠOVÁ, Dagmar**. Improved thermal performance of InGaAs/GaAs nanomembrane HEMTs transferred onto various substrates by epitaxial lift-off. In ACS Applied Electronic Materials, 2024, vol. 6, p. 5651–5660. (2023: 4.3 - IF, Q1 - JCR, 1.058 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS). ISSN 2637-6113. Dostupné na: <https://doi.org/10.1021/acsaelm.4c00659>
- ADCA17 HRDÁ, Jana** - MOŠKO, Martin - PÍŠ, I. - VOJTEKOVÁ, Tatiana - PRIBUSOVÁ SLUŠNÁ, Lenka - HUTÁR, Peter - PRECNER, Marián - DOBROČKA, Edmund - ŠPANKOVÁ, Marianna - HULMAN, Martin - CHROMIK, Štefan - ŠIFFALOVÍČ, Peter - BONDINO, F. - SOJKOVÁ, Michaela**. Investigating structural, optical, and electron-transport properties of lithium intercalated few-layer MoS2 films: Unraveling the influence of disorder. In Applied Physics Letters, 2024, vol. 124, no. 12, art. no. 123101. (2023: 3.5 - IF, Q2 - JCR, 0.976 - SJR, Q1 - SJR). ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0191046> (APVV-19-0365 : Metalické 2D dichalkogenidy prechodných kovov: príprava, štúdium vlastností a korelované stavy)
- ADCA18 HULAČOVÁ, S.** - PEKARČÍKOVÁ, M. - SKARBA, M. - FROLEK, Lubomír - CUNINKOVÁ, E. Comparison of AC loss reduction methods based on striation of Ag-stabilized REBCO tapes. In IEEE Transactions on Applied Superconductivity, 2024, vol. 34, no. 5901205. (2023: 1.7 - IF, Q3 - JCR, 0.5 - SJR, Q2 - SJR). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2024.3354689>
- ADCA19 HUSSAIN, Arif - DADHICH, Anang - PARDO, Enric**. Thermal quench modeling of REBCO racetrack coils under either alternating current or short-circuit voltage. In Superconductor Science and Technology, 2024, vol. 37, no. 115028. (2023: 3.7 - IF, Q2 - JCR, 1.056 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad7644>
- ADCA20 HUŠEK, Imrich - KOVÁČ, Pavol** - MELIŠEK, Tibor - BEREK, Dušan - KOPERA, Lubomír. Effects of interface angle, added powder and applied deformation on the transport current and structure of scarf joints of single- and multi-core unreacted MgB2 wires. In Superconductor Science and Technology, 2024, vol. 37, no. 075016. (2023: 3.7 - IF, Q2 - JCR, 1.056 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad5113>
- ADCA21 IVASHCHENKO, V.I. - ONOPRIENKO, A.A. - SCRYNSKYY, P.L. - KOZAK,

- ADCA22 Andrii - VEDEL, D. - MAZUR, P. - SINELNICHENKO, A.K. - BURANYCH, V.V.** - POGREBNJAK, A.D. Structure and properties of (TiZrHfNbTa)B₂ films and first-principles models for high entropy diborides. In Thin Solid Films, 2024, vol. 803, no. 140478. (2023: 2 - IF, Q3 - JCR, 0.4 - SJR, Q2 - SJR). ISSN 0040-6090. Dostupné na: <https://doi.org/10.1016/j.tsf.2024.140478> (APVV 21-0231)
- ADCA23 IZSÁK, Tibor** - VARGA, Marian - KOČÍ, M. - SZABÓ, O. - AUBRECHTOVÁ DRAGOUNOVÁ, K. - VANKO, Gabriel - GÁL, Pavel - GÁL, Miroslav - KORČEKOVÁ, Jana - HORNYCHOVÁ, Michaela - POTURNAYOVÁ, Alexandra - KROMKA, A. Diamond-coated quartz crystal microbalance sensors: Challenges in high yield production and enhanced detection of ethanol and sars-cov-2 proteins. In Materials and Design, 2024, vol. 248, art. no. 113474. (2023: 7.6 - IF, Q1 - JCR, 1.684 - SJR, Q1 - SJR). ISSN 0261-3069. Dostupné na: <https://doi.org/10.1016/j.matdes.2024.113474> (Vega č. 2/0160/21 : Diagnostika onkologických ochorení pomocou aptasenzorov: vývoj a validácia. Vega č. 1/0157/24 : Detekcia tichých zabijakov: Stratégie založené na elektrochemických a QCM biosenzoroch na báze aptamérov pre rýchlu, jednoduchú a včasnú detekciu miRNA v diagnostike rakoviny)
- ADCA24 KITYK, Anna** - HNATKO, Miroslav - PAVLÍK, Viliam - BALOG, Martin - ŠOLTÝS, Ján - LABUDOVIČ, Martina. Advancing biomedical substrate engineering: An eco-friendly route for synthesizing micro- and nanotextures on 3D printed Ti-6Al-4V. In Journal of Materials Research and Technology-JMR&T, 2024, vol. 28, p. 2098-2115. (2023: 6.2 - IF, Q1 - JCR, 1.091 - SJR, Q1 - SJR). ISSN 2238-7854. Dostupné na: <https://doi.org/10.1016/j.jmrt.2023.12.164> (ITMS2014+: 313021T081 : Vybudovanie Centra pre využitie pokročilých materiálov Slovenskej akadémie vied)
- ADCA25 KOŠUTH, Filip - POTOMOVÁ, N. - PRIBULOVÁ, Zuzana - KAČMARČÍK, Jozef - NASKAR, M. - INOSOV, D.S. - ASH, S. - GANGULI, A.K. - ŠOLTÝS, Ján - CAMBEL, Vladimír - SZABÓ, Pavol - SAMUELY, Peter. Two-gap superconductivity in the noncentrosymmetric La₃Se₄ compound. In Physical Review B, 2024, vol.110, no.7, art.no.174518. (2023: 3.2 - IF, Q2 - JCR, 1.345 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.174518>
- ADCA26 KOVÁČ, Pavol** - BÚRAN, Marek - KOVÁČ, Ján - MELIŠEK, Tibor - HUŠEK, Imrich - BEREK, Dušan - MAUCERI, P. - SPINA, T. - BRUZEK, C.-E. Electrical and mechanical limits of ex situ MgB₂ wires for cabling. In Superconductor Science and Technology, 2024, vol. 37, no. 065004. (2023: 3.7 - IF, Q2 - JCR, 1.056 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad3f7e> (Horizont Európa-101075602)
- ADCA27 KOVÁČ, Pavol** - BÚRAN, Marek - KOPERA, Lubomír. Essential properties of sub-cooled water ice and background field properties of MgB₂ coil measured in it. In Cryogenics, 2024, vol. 141, no. 103897. (2023: 1.8 - IF, Q3 - JCR, 0.483 - SJR, Q2 - SJR). ISSN 0011-2275. Dostupné na: <https://doi.org/10.1016/j.cryogenics.2024.103897> (APVV 18-0271)
- ADCA28 KOVÁČ, Pavol** - BEREK, Dušan - KOVÁČ, Ján - BÚRAN, Marek - HAIN, Miroslav - MELIŠEK, Tibor - HUŠEK, Imrich. A Rutherford MgB₂ cable with resistive NbTi barriers and a CuNi30 sheath. In Superconductor Science and Technology, 2024, vol. 37, no. 105013. (2023: 3.7 - IF, Q2 - JCR, 1.056 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad70de>
- ADCA28 KROMKA, A.** - VARGA, Marian - AUBRECHTOVÁ DRAGOUNOVÁ, K. - BABCHENKO, Oleg - PFEIFER, R. - FLATAE, A.M. - SLEDZ, F. - AKTHER, F. - AGIO, M. - POTOCKÝ, Štěpán - STEHLÍK, S. High-yield production of SiV-doped nanodiamonds for spectroscopy and sensing applications. In ACS Applied Nano

- Materials, 2024, vol. 7, p. 24766-24777. (2023: 5.3 - IF, Q2 - JCR, 1.134 - SJR, Q1 - SJR). ISSN 2574-0970. Dostupné na: <https://doi.org/10.1021/acsanm.4c04676>
- ADCA29 KUCHAROVIČ, Martin** - GÖMÖRY, Fedor - SOLOVYOV, Mykola. Demagnetizing the superconducting part of the magnetic cloak. In IEEE Transactions on Applied Superconductivity, 2024, vol. 34, no. 8200404. (2023: 1.7 - IF, Q3 - JCR, 0.5 - SJR, Q2 - SJR). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2024.3367616> (VEGA 1/0205/21)
- ADCA30 KURUCOVÁ, N. - ŠAGÁTOVÁ, A. - PAVLOVIČ, M. - ZATKO, Bohumír - KOVÁČOVÁ, Eva - BOHÁČEK, Pavol - ŠKRINIAROVÁ, Jaroslava - PREDANOCY, Martin. Experimental analysis of the electric field distribution in semi-insulating GaAs detectors via alpha particles. In Journal of Instrumentation, 2024, vol. 19, art. no. C03049. (2023: 1.3 - IF, Q3 - JCR, 0.58 - SJR, Q2 - SJR). ISSN 1748-0221. Dostupné na: <https://doi.org/10.1088/1748-0221/19/03/C03049>
- ADCA31 KUZMÍK, Ján** - STOKLAS, Roman - HASENÖHRL, Stanislav - DOBROČKA, Edmund - KUČERA, Michal - ELIÁŠ, Peter - GUCMANN, Filip - GREGUŠOVÁ, Dagmar - HAŠČÍK, Štefan - KALETA, A. - CHAUVAT, M.-P. - KRET, S. - RUTERANA, P. InN/InAlN heterostructures for new generation of fast electronics. In Journal of Applied Physics, 2024, vol. 135, no. 245701. (2023: 2.7 - IF, Q2 - JCR, 0.649 - SJR, Q2 - SJR). ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/5.0215108> (VEGA 2/0068/21. APVV 21-0008)
- ADCA32 MAGNUSSON, N.** - ALLAIS, A. - ANGELI, G. - BOUVIER, G. - BRUZEK, C.-E. - CANDIDO, J. - CREUSOT, C. - GAMMELSAETER, M. - GAROFALO, E. - GÖMÖRY, Fedor - HODGE, E. - HOLLE, S. - MARIAN, A. - MORANDI, A. - REISER, W. - WEST, B. SCARLET - a european effort to develop HTS and MgB2 based MVDC cables. In IEEE Transactions on Applied Superconductivity, 2024, vol. 34, art. no. 5400205. (2023: 1.7 - IF, Q3 - JCR, 0.5 - SJR, Q2 - SJR). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2023.3340646> (Horizont Európa-101075602)
- ADCA33 MELIŠEK, Tibor - BEREK, Dušan - BÚRAN, Marek - BENNÁR, Michal - KOVÁČ, Pavol**. Joining of single-core ex-situ MgB2/Fe wires by termination architecture. In Cryogenics, 2024, vol. 140, art. no. 103857. (2023: 1.8 - IF, Q3 - JCR, 0.483 - SJR, Q2 - SJR). ISSN 0011-2275. Dostupné na: <https://doi.org/10.1016/j.cryogenics.2024.103857> (VEGA 2/0017/22)
- ADCA34 MOŠKO, Martin** - KOSCELANSKÁ, M. - MOŠKOVÁ, Antónia - VIDIŠ, M. - VOLKOV, S. - GREGOR, M. - POLÁČKOVÁ, Milena - ROCH, T. - GRANČIČ, B. - SATRAPINSKY, L. - KÚŠ, P. - PLECENÍK, A. - PLECENIK, T.**. Observation and characterization of titanium-like nano-filament in TiO2 memristor using superconducting electrode(s) and Andreev spectroscopy featured. In Journal of Applied Physics, 2024, vol. 136, no. 054303. (2023: 2.7 - IF, Q2 - JCR, 0.649 - SJR, Q2 - SJR). ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/5.0221209>
- ADCA35 PARDO, Enric** - FAZILLEAU, P. Fast and accurate electromagnetic modeling of non-insulated and metal-insulated REBCO magnets. In Superconductor Science and Technology, 2024, vol. 37, art. no. 035016. (2023: 3.7 - IF, Q2 - JCR, 1.056 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad1c6f>
- ADCA36 RIES, Rastislav** - MOŠAŤ, Marek - GÖMÖRY, Fedor - HINTZE, C. Impact of anticlastic deformation on REBCO tapes wound in multilayer round cable. In IEEE Transactions on Applied Superconductivity, 2024, vol. 34, no. 3, art. no. 6900105. (2023: 1.7 - IF, Q3 - JCR, 0.5 - SJR, Q2 - SJR). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2024.3370114> (APVV 20-0056)
- ADCA37 SAHOO, Prangya Parimita** - GÜNEREN, Alper - HUDEEC, Boris - MIKOLÁŠEK, M. - NADA, Ahmed A. - PRECNEROVÁ, Magdaléna - MÍČUŠÍK, Matej - LENČEŠ, Zoltán - NÁDAŽDY, Peter - FRÖHLICH, Karol. Stabilization of

the solid-electrolyte-interphase layer and improvement of the performance of silicon-graphite anodes by nanometer-thick atomic-layer-deposited ZnO films. In ACS Applied Nano Materials, 2024, vol. 7, p. 18486–18498. (2023: 5.3 - IF, Q2 - JCR, 1.134 - SJR, Q1 - SJR). ISSN 2574-0970. Dostupné na: <https://doi.org/10.1021/acsanm.3c05066>

- ADCA38 SALEHTASH, Farnoush - HVIZDOŠOVÁ, Adriana, Annušová - STEPURA, Anastasiia - SOYKA, Yaryna - HALAHOVETS, Yuriy - HOFBAUEROVÁ, Monika, Benkovičová - MIČUŠÍK, Matej - KOTLÁR, Mário - NÁDAŽDY, Peter - ALBRYCHT, Pawel - ŠIFFALOVIČ, Peter - JERGEL, Matej - OMASTOVÁ, Mária - MAJKOVÁ, Eva**. SERS performance of Ti₃C₂T_x MXene-based substrates correlates with surface morphology. In Materials, 2024, vol. 17, no. 6, 1385, [15] p. (2023: 3.1 - IF, Q1 - JCR, 0.565 - SJR, Q2 - SJR). ISSN 1996-1944. Dostupné na: <https://doi.org/10.3390/ma17061385> (APVV-20-0485 : Využitie nanomedicíny v boji proti rakovine pankreasu prostredníctvom zacielenia nádorovo-asociovej karbonickej anhydrázy IX. APVV-19-0465 : Hybridné nízkorozmerné vrstevnaté materiály s novými funkciami. VEGA č. 2/0046/21 : Vplyv zabudovania MXénov do perovskitových solárnych článkov)
- ADCA39 SMYRNOVA, K.** - IVASHCHENKO, V.I. - SAHUL, Martin - ČAPLOVIČ, Ľubomír - SCRYNSKYI, P.L. - KOZAK, Andrii - KONARSKI, P. - KOLTUNOWICZ, T.N. - GALASZKIEWICZ, P. - BONDARIEV, V. - ZUKOWSKI, P. - BUDZYNSKI, P. - BORBA-POGREBNJAK, S. - KAMIŃSKI, M. - BÓNOVÁ, L. - BERESNEV, V. - POGREBNJAK, A.D. Microstructural, electrical, and tribomechanical properties of Mo-W-C nanocomposite films. In Nanomaterials-Basel, 2024, vol. 14, no. 1061. (2023: 4.4 - IF, Q2 - JCR, 0.798 - SJR, Q1 - SJR). ISSN 2079-4991. Dostupné na: <https://doi.org/10.3390/nano14121061> (APVV 21-0231)
- ADCA40 SRIVASTAVA, Arpit Kumar** - PARDO, Enric. Modelling the mechanics of 32 T REBCO superconductor magnet using numerical simulation. In Superconductor Science and Technology, 2024, vol. 37, no. 075014. (2023: 3.7 - IF, Q2 - JCR, 1.056 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad4a34>
- ADCA41 ŠAGÁTOVÁ, A. - FÜLÖP, Marko - NOVÁK, A. - VRBAN, B. - LÜLEY, J. - ČERBA, Š. - BENKOVSKÝ, I. - ZÁTKO, Bohumír. Conversion of fast neutrons for neutron radiography with TPX2 detector. In Nukleonika, 2024, vol. 69, p. 135-140. (2023: 0.7 - IF, Q4 - JCR, 0.251 - SJR, Q3 - SJR). ISSN 0029-5922. Dostupné na: <https://doi.org/10.2478/nuka-2024-0020> (APVV 22-0382)
- ADCA42 ŠIMKOVIC, Ivan** - GUCMANN, Filip - DOBROČKA, Edmund - FILIP, Jaroslav - HRICOVÍNI, Michal - DUJNIČ, Viera - MENDICHI, Raniero - GIACOMETTI SCHIERONI, Alberto - PIOVANI, Daniele - ZAPPÍA, Stefania - HRICOVÍNI, Miloš. Properties of quaternized and cross-linked hydroxyethylcellulose composite films. In Cellulose, 2024, vol. 31, p. 10341-10357. (2023: 4.9 - IF, Q1 - JCR, 0.966 - SJR, Q1 - SJR). ISSN 0969-0239. Dostupné na: <https://doi.org/10.1007/s10570-024-06154-7>
- ADCA43 ŠOKA, M.** - UŠÁKOVÁ, M. - DOSOUDIL, R. - JANČÁRIK, V. - UŠÁK, E. - DOBROČKA, Edmund. Ni/Zn ratio and La substitution effect on selected structural and magnetic properties of NiZn ferrites. In Journal of Physics: Condensed Matter, 2024, vol. 36, no. 265801. (2023: 2.3 - IF, Q3 - JCR, 0.676 - SJR, Q2 - SJR). ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/1361-648X/ad3791>
- ADCA44 URBANOVÁ, Lenka - BUJDOŠ, M. - MATULOVÁ, Michaela - MIGLIERINI, M. - VYHNÁLEKOVÁ, S. - OROVČÍK, Ľubomír - MACHATA, Peter - MIČUŠÍK, Matej - DOBROČKA, Edmund - KOLLÁR, Jozef - MATÚŠ, P. - URÍK, M.**. Investigating the sorption behavior of selenite on commercial partially oxidized

magnetite nanopowder under aerobic conditions: Characterization and mechanisms. In Separation and Purification Technology, 2024, vol. 348, no. 127688. (2023: 8.1 - IF, Q1 - JCR, 1.533 - SJR, Q1 - SJR). ISSN 1383-5866. Dostupné na:

<https://doi.org/10.1016/j.seppur.2024.127688>

- ADCA45 UŠÁKOVÁ, M. - UŠÁK, E.** - ĎURIŠOVÁ, E. - DOSOUDIL, R. - DOBROČKA, Edmund - ŠOKA, M. Polymer composites with magnetically active Eu-substituted NiZn ferrite fillers. In Materials Today Chemistry, 2024, vol. 38, no. 102056. (2023: 6.7 - IF, Q1 - JCR, 1.239 - SJR, Q1 - SJR). ISSN 2468-5194. Dostupné na: <https://doi.org/10.1016/j.mtchem.2024.102056>
- ADCA46 VYHNÁLEKOVÁ, S. - MIGLIERINI, M. - DEKAN, Július - BUJDOŠ, M. - DOBROČKA, Edmund - FARKAS, B. - MATÚŠ, P. - URÍK, M.**. Encapsulating magnetite nanopowder with fungal biomass: Investigating effects on chemical and mineralogical stability. In Separation and Purification Technology, 2024, vol. 333, art. no. 125899. (2023: 8.1 - IF, Q1 - JCR, 1.533 - SJR, Q1 - SJR). ISSN 1383-5866. Dostupné na: <https://doi.org/10.1016/j.seppur.2023.125899>
- ADCA47 XIAO, Xiaoyi - MAO, Y. - MENG, Baozhong - MA, Guozhong - HUŠEKOVÁ, Kristína - EGYENES, Fridrich - ROSOVÁ, Alica - DOBROČKA, Edmund - ELIÁŠ, Peter - ĎAPAJNA, Milan - GUCMANN, Filip** - YUAN, C.**. Phase-dependent phonon heat transport in nanoscale gallium oxide thin films. In Small, 2024, vol. 20, no. 2309961. (2023: 13 - IF, Q1 - JCR, 3.348 - SJR, Q1 - SJR). ISSN 1613-6810. Dostupné na: <https://doi.org/10.1002/sml.202309961>
- ADCA48 YAN, Yihua - PARK, J. - KIM, G.A. - KIM, J. H. - GÖMÖRY, Fedor - HAHN, Steffen**. Effects of lateral critical current nonuniformity on stresses in dry-wound high-field REBCO coils. In Superconductor Science and Technology, 2024, vol. 37, no. 125015. (2023: 3.7 - IF, Q2 - JCR, 1.056 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad8782>
- ADCA49 ZAŤKO, Bohumír** - ŠAGÁTOVÁ, A. - HRUBČÍN, Ladislav - KOVÁČOVÁ, Eva - NOVÁK, A. - KURUCOVÁ, N. - POLANSKY, Š. - JAKUBEK, J. Imaging and spectrometric performance of SiC Timepix3 radiation camera. In Journal of Instrumentation, 2024, vol. 19, no. C01003. (2023: 1.3 - IF, Q3 - JCR, 0.58 - SJR, Q2 - SJR). ISSN 1748-0221. Dostupné na: <https://doi.org/10.1088/1748-0221/19/01/C01003>
- ADCA50 ZAŤKO, Bohumír - VARGA, Marian - KOVÁČOVÁ, Eva - ŠAGÁTOVÁ, A. A study of particle detectors based on single crystal diamond substrate. In Journal of Instrumentation, 2024, vol. 19, no. C11016. (2023: 1.3 - IF, Q3 - JCR, 0.58 - SJR, Q2 - SJR). ISSN 1748-0221. Dostupné na: <https://doi.org/10.1088/1748-0221/19/11/C11016>

ADMA Vedecké práce v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

- ADMA01 BYSTRICKÝ, Roman - TIWARI, S.K. - HUTÁR, Peter - SÝKORA, M.**. Thermal stability of chalcogenide perovskites. In Inorganic Chemistry, 2024, vol. 63, p. 12826-12838. (2023: 4.3 - IF, Q1 - JCR, 0.928 - SJR, Q1 - SJR). ISSN 0020-1669. Dostupné na: <https://doi.org/10.1021/acs.inorgchem.4c01308>
- ADMA02 HELD, Vladimír** - MRKÝVKOVÁ, Nad'a, Tesařová - HALAHOVETS, Yuriy - NÁDAŽDY, Peter - VÉGSÖ, Karol - VLK, Aleš - LEDINSKÝ, Martin - JERGEL, Matej - BERNSTORFF, Sigrid - KECKES, Jozef - SCHREIBER, Frank - ŠIFFALOVÍČ, Peter. Evolution of Defects, Morphology, and Strain during FAMAPbI3 Perovskite Vacuum Deposition: Insights from In Situ Photoluminescence and X ray Scattering. In ACS Applied Materials & Interfaces, 2024, vol. 16, pp. 35723-35731. (2023: 8.3 - IF, Q1 - JCR, 2.058 - SJR, Q1 - SJR).

- ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.4c04095> (APVV-21-0297 : Pokročilé perovskitové solárne články s optimalizovanou pasiváciou a štruktúrou. APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou)
- ADMA03 KRYLOV, Sergei** - KALMYKOVA, Tetiana - ŠČEPKA, Tomáš - CAMBEL, Vladimír. Magnetic nanostructures with defined magnetic states fabricated by focused ion beam. In Results in Physics, 2024, vol. 60, art. no. 107669. (2023: 4.4 - IF, Q1 - JCR, 0.69 - SJR, Q2 - SJR). ISSN 2211-3797. Dostupné na: <https://doi.org/10.1016/j.rinp.2024.107669> (APVV 19-0311. VEGA 2/0168/22)
- ADMA04 SMYRNOVA, K.** - SAHUL, Martin - HARŠÁNI, Marián - BERESNEV, V. - TRUHLÝ, Martin - ČAPLOVIČ, Ľubomír - ČAPLOVIČOVÁ, M. - KUSÝ, M. - KOZAK, Andrii - FLOCK, D. - KASSYMBAEV, A. - POGREBNJAK, A.D. Composite materials with nanoscale multilayer architecture based on cathodic-arc evaporated WN/NbN coatings. In ACS Omega, 2024, vol. 9, p. 17247-17265. (2023: 3.7 - IF, Q2 - JCR, 0.71 - SJR, Q2 - SJR). ISSN 2470-1343. Dostupné na: <https://doi.org/10.1021/acsomega.3c10242>
- ADMA05 ŠIMKOVIC, Ivan** - GUCMANN, Filip - HRICOVÍNI, Michal - MENDICHI, Raniero - DOBROČKA, Edmund - GIACOMETTI SCHIERONI, Alberto - PIOVANI, Daniele - ZAPPIA, Stefania - HRICOVÍNI, Miloš. Film Properties of Heparin Cross-Linked with Epichlorohydrin in Absence or Presence of Imidazole. In Polysaccharides, 2024, vol. 5, pp. 715-730. (2023: 4.7 - IF, Q1 - JCR). ISSN 2673-4176. Dostupné na: <https://doi.org/10.3390/polysaccharides5040045>

ADMB Vedecké práce v zahraničných neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

- ADMB01 ANTOINE, C.Z.** - BERRY, S.R. - KALBOUSSI, Y. - RIES, Rastislav - SEILER, Eugen. Thin films activities in the IFast program. In eeFACT2022 : Proceedings of the 65th ICFA Advanced Beam Dynamics Workshop on High Luminosity Circular e+e- Colliders. - JACoW, 2023, p. 159-164. ISBN 978-3-95450-236-3. Dostupné na: <https://doi.org/10.18429/JACoW-eeFACT2022-WEYAS0104> (H2020 101004730)
- ADMB02 GUCMANN, Filip - ĎAPAJNA, Milan - HUŠEKOVÁ, Kristína - DOBROČKA, Edmund - ROSOVÁ, Alica - NÁDAŽDY, Peter - ELIÁŠ, Peter - EGYENES, Fridrich - HRUBIŠÁK, Fedor - CHOUHAN, Hemendra - KESHTKAR, Javad - ZHENG, X - POMEROY, J.W. - KUBALL, M. - XIAO, Xiaoyi - MAO, Y. - MENG, Baozhong - MA, Guozhong - YUAN, C. Thermal properties of Ga2O3 thin films and devices prepared on sapphire and SiC substrates by liquid-injection MOCVD. In Proceedings of the SPIE, 2024, vol. 12887, no. 1288705. (2023: 0.152 - SJR). ISSN 0277-786X. Dostupné na: <https://doi.org/10.1117/12.3013087>
- ADMB03 HRUBČÍN, Ladislav** - ZAŤKO, Bohumír - KOVÁČOVÁ, Eva. Silicon radiation detectors with rectifier junction prepared by different technological procedures. In AIP Conference Proceedings. - AIP, 2024, vol. 3251, no. 080005. (2023: 0.152 - SJR). ISBN 978-0-7354-1697-0. ISSN 0094-243X. Dostupné na: <https://doi.org/10.1063/5.0239936> (APVV 22-0382)
- ADMB04 CHLPIK, J.** - KOTOROVÁ, S. - BENNÁR, Michal - DÉRER, Ján - ŠOLTÝS, Ján - CIRÁK, J. Spectroscopic ellipsometry material model of a thin Au layer prepared by evaporation. In AIP Conference Proceedings, 2024, vol. 3251, no. 050004. (2023: 0.152 - SJR). ISSN 0094-243X. Dostupné na: <https://doi.org/10.1063/5.0234271>
- ADMB05 KOČÍ, M. - SZABÓ, O. - IZSÁK, Tibor - SOJKOVÁ, Michaela - GODZIERZ, M. - WRÓBEL, P. - HUSÁK, M. - KROMKA, A. GAS sensors based on diamond heterostructures for air quality monitoring. In NANOCON 2023 : Conference

- proceedings - 15th International Conference on Nanomaterials - Research & Application. - Ostrava : Tanger Ltd., 2024, p. 203-209. ISBN 978-80-88365-15-0. ISSN 2694-930X. Dostupné na: <https://doi.org/10.37904/nanocon.2023.4785>
- ADMB06 KOTOROVÁ, S.** - ŠAGÁTOVÁ, A. - ZAŤKO, Bohumír. Analysis of CdTe detectors using I-V characteristics. In AIP Conference Proceedings : Applied Physics of Condensed Matter (APCOM 2023), 2024, vol. 3054, no. 050004. (2023: 0.152 - SJR). ISSN 0094-243X. Dostupné na: <https://doi.org/10.1063/5.0187527>
- ADMB07 KOTOROVÁ, S.** - ŠAGÁTOVÁ, A. - ZAŤKO, Bohumír. Analysis of CdTe detectors via alpha and gamma spectrometry. In AIP Conference Proceedings. - AIP, 2024, vol. 3251, no. 080009. (2023: 0.152 - SJR). ISBN 978-0-7354-1697-0. ISSN 0094-243X. Dostupné na: <https://doi.org/10.1063/5.0234374> (APVV 18-0243. APVV 22-0382)
- ADMB08 KURUCOVÁ, N.** - ŠAGÁTOVÁ, A. - KOVÁČOVÁ, Eva - ZAŤKO, Bohumír. Influence of quasi-ohmic electrode on performance of semi-insulating GaAs detectors. In AIP Conference Proceedings : Applied Physics of Condensed Matter (APCOM 2023), 2024, vol. 3054, no. 050005. (2023: 0.152 - SJR). ISSN 0094-243X. Dostupné na: <https://doi.org/10.1063/5.0192046>
- ADMB09 KURUCOVÁ, N.** - ŠAGÁTOVÁ, A. - GRANJA, C. - HLADÍK, D. - ZAŤKO, Bohumír. Comparison of Increased temperature on timepix3 detector with SiC vs Si sensor. In AIP Conference Proceedings. - AIP, 2024, vol. 3251, no. 070001. (2023: 0.152 - SJR). ISBN 978-0-7354-1697-0. ISSN 0094-243X. Dostupné na: <https://doi.org/10.1063/5.0235261> (APVV 22-0382. APVV 18-0243)
- ADMB10 ŠAGÁTOVÁ, A.** - HRUBČÍN, Ladislav - KURUCOVÁ, N. - NEČAS, V. - KOVÁČOVÁ, Eva - EVSEEV, S.A. - ZAŤKO, Bohumír. Electrical properties study of the 4H-SiC detectors based on thick epitaxial layer. In AIP Conference Proceedings : Applied Physics of Condensed Matter (APCOM 2023), 2024, vol. 3054, no. 050011. (2023: 0.152 - SJR). ISSN 0094-243X. Dostupné na: <https://doi.org/10.1063/5.0187794>
- ADMB11 ŠAGÁTOVÁ, A.** - KOVÁČOVÁ, Eva - BENČUROVÁ, Anna - KONEČNÍKOVÁ, Anna - GREGUŠOVÁ, Dagmar - NEČAS, V. - ZAŤKO, Bohumír. The bias effect on alpha spectrometry of very thin semi-insulating GaAs detectors. In AIP Conference Proceedings. - AIP, 2024, vol. 3251, no. 080010. (2023: 0.152 - SJR). ISBN 978-0-7354-1697-0. ISSN 0094-243X. Dostupné na: <https://doi.org/10.1063/5.0235495> (APVV 22-0382. APVV 18-0273. APCOM 2024 : International Conference on Applied Physics of Condensed Matter)
- ADMB12 ŠAGÁTOVÁ, A. - ZAŤKO, Bohumír - NOVÁK, A. Perspective SiC sensor for radiation camera. In Nuclear Physics News, 2024, vol. 34, p. 27-30. (2023: 0.19 - SJR, Q4 - SJR). ISSN 1061-9127. Dostupné na: <https://doi.org/10.1080/10619127.2024.2336845>
- ADMB13 ŤAPAJNA, Milan - EGYENES, Fridrich - HRUBIŠÁK, Fedor - HUŠEKOVÁ, Kristína - DOBROČKA, Edmund - NÁDAŽDY, Peter - ROSOVÁ, Alica - CHOUHAN, Hemendra - KESHTKAR, Javad - GUCMANN, Filip. Liquid-injection MOCVD-grown Ga₂O₃ on sapphire and 4H-SiC substrates: Material, transport, and MOSFET properties. In IMFEDK 2023 : International Meeting for Future of Electron Devices, Kansai. - IEEE, 2023, p. IN10. ISBN 979-8-3503-9378-1. Dostupné na: <https://doi.org/10.1109/IMFEDK60983.2023.10366336> (APVV 20-0220. APVV 21-0231. VEGA 2/0100/21)
- ADMB14 ZAŤKO, Bohumír** - VARGA, Marian - VANKO, Gabriel - IZSÁK, Tibor - ŠAGÁTOVÁ, A. - KROMKA, A. Polycrystalline CVD diamond-based structures for detection of charge particles. In AIP Conference Proceedings : Applied Physics of Condensed Matter (APCOM 2023), 2024, vol. 3054, art. no. 050013. (2023: 0.152 - SJR). ISSN 0094-243X. Dostupné na: <https://doi.org/10.1063/5.0187517>

ADMB15 ZATKO, Bohumír** - ŠAGÁTOVÁ, A. - KOVÁČOVÁ, Eva. Detection and spectrometric properties of the 4H-SiC Schottky detectors based on thick epitaxial layers. In AIP Conference Proceedings. - AIP, 2024, vol. 3251, no. 080006. (2023: 0.152 - SJR). ISBN 978-0-7354-1697-0. ISSN 0094-243X. Dostupné na: <https://doi.org/10.1063/5.0234963> (APVV 22-0382. APVV 18-0243)

AFC Publikované príspevky na zahraničných vedeckých konferenciách

AFC01 PRIBUSOVÁ SLUŠNÁ, Lenka - KOTRUSZ, Peter - MUSTONEN, K. - BUI, T.A. - HULMAN, Martin - SKÁKALOVÁ, Viera. Raman study of MoS₂/graphene heterostructure. In Sborník příspěvků multioborové konference LASER64 : Zámecký hotel Třešť, 13. – 15. listopad 2024. Ed. B. Mikel. - Brno : Ústav přístrojové techniky AV ČR, v.v.i., 2024, p. 125-127. ISBN 978-80-87441-35-0.

AFD Publikované príspevky na domácich vedeckých konferenciách

- AFD01 GUCMANN, Filip** - HUŠEKOVÁ, Kristína - ROSOVÁ, Alica - DOBROČKA, Edmund - EGYENES, Fridrich - HRUBIŠÁK, Fedor - KESHTKAR, Javad - CHOUHAN, Hemendra - KRETTOVÁ, Miriam - ELIÁŠ, Peter - NÁDAŽDY, Peter - GREGUŠOVÁ, Dagmar - POHORELEC, Ondrej - KOZAK, Andrii - ŤAPAJNA, Milan. Gallium oxide for applications in electronics and optoelectronics. In 12th International Conference on Advances in Electronic and Photonic Technologies - ADEPT 2024 : Proceedings of ADEPT. Editors: M. Feiler, M. Ziman, S. Kováčová, J. Kováč, jr. - Zilina : University of Zilina in EDIS-Publishing Centre of UZ, 2024, s. 13-16. ISBN 978-80-554-2109-4. (APVV 20-0220. VEGA 2/0100/21. International Conference on Advances in Electronic and Photonic Technologies (ADEPT 2024))
- AFD02 GUCMANN, Filip** - HUŠEKOVÁ, Kristína - YUAN, C. - XIAO, Xiaoyi - MAO, Y. - MENG, Baozhong - MA, Guozhong - ROSOVÁ, Alica - DOBROČKA, Edmund - EGYENES, Fridrich - ELIÁŠ, Peter - ŤAPAJNA, Milan. Phase-dependent phonon heat transport in thin-film gallium oxide. In 12th International Conference on Advances in Electronic and Photonic Technologies - ADEPT 2024 : Proceedings of ADEPT. Editors: M. Feiler, M. Ziman, S. Kováčová, J. Kováč, jr. - Zilina : University of Zilina in EDIS-Publishing Centre of UZ, 2024, s. 121-124. ISBN 978-80-554-2109-4. (APVV 20-0220. VEGA 2/0100/21. International Conference on Advances in Electronic and Photonic Technologies (ADEPT 2024))
- AFD03 HURAN, Jozef - SKRYPNIK, A.V. - DUJNIČ, Viera - DOROSHKEVICH, A.S. - NOZDRIN, Mikhail A. - KOVÁČOVÁ, Eva - SHIRKOV, G.D. Photoelectron emission properties of very thin carbon films prepared by electron beam-plasma vacuum deposition and reactive magnetron sputtering. In 12th International Conference on Advances in Electronic and Photonic Technologies - ADEPT 2024 : Proceedings of ADEPT. Editors: M. Feiler, M. Ziman, S. Kováčová, J. Kováč, jr. - Zilina : University of Zilina in EDIS-Publishing Centre of UZ, 2024, s. 41-44. ISBN 978-80-554-2109-4. (International Conference on Advances in Electronic and Photonic Technologies (ADEPT 2024))
- AFD04 CHOUHAN, Hemendra** - EGYENES, Fridrich - ROSOVÁ, Alica - HUŠEKOVÁ, Kristína - DOBROČKA, Edmund - NÁDAŽDY, Peter - ŤAPAJNA, Milan - XIAO, Xiaoyi - MAO, Y. - MENG, Baozhong - MA, Guozhong - YUAN, C. - GUCMANN, Filip. Heteroepitaxial growth of (010) β-Ga₂O₃ON sapphire substrates using α-Ga₂O₃ template by liquid-injection MOCVD. In 12th International Conference on Advances in Electronic and Photonic Technologies - ADEPT 2024 : Proceedings of ADEPT. Editors: M. Feiler, M. Ziman, S. Kováčová, J. Kováč, jr. - Zilina : University of Zilina in EDIS-Publishing Centre of UZ, 2024, s. 73-76. ISBN

- 978-80-554-2109-4. (APVV 20-0220. VEGA 2/0100/21. International Conference on Advances in Electronic and Photonic Technologies (ADEPT 2024))
- AFD05 CHOUHAN, Hemendra** - HUŠEKOVÁ, Kristína - DOBROČKA, Edmund - ŤAPAJNA, Milan - KESHTKAR, Javad - POHORELEC, Ondrej - HRUBIŠÁK, Fedor - MIKOLÁŠEK, M. - GUCMANN, Filip. Effect of off-cut sapphire substrate on the structural and optical properties of (-201) B-Ga₂O₃ grown by liquid-injection MOCVD. In 12th International Conference on Advances in Electronic and Photonic Technologies - ADEPT 2024 : Proceedings of ADEPT. Editors: M. Feiler, M. Ziman, S. Kováčová, J. Kováč, jr. - Zilina : University of Zilina in EDIS-Publishing Centre of UZ, 2024, s. 117-120. ISBN 978-80-554-2109-4. (APVV 20-0220. VEGA 2/0100/21. International Conference on Advances in Electronic and Photonic Technologies (ADEPT 2024))
- AFD06 KOČÍ, M.** - SZABÓ, O. - IZSÁK, Tibor - GODZIERZ, M. - WRÓBEL, Piotr J. - VANKO, Gabriel - SOJKOVÁ, Michaela - KROMKA, A. - HUSÁK, M. Diamond and 2D material heterostructures as a platform for room temperature detection of gases. In 12th International Conference on Advances in Electronic and Photonic Technologies - ADEPT 2024 : Proceedings of ADEPT. Editors: M. Feiler, M. Ziman, S. Kováčová, J. Kováč, jr. - Zilina : University of Zilina in EDIS-Publishing Centre of UZ, 2024, s. 69-72. ISBN 978-80-554-2109-4. (International Conference on Advances in Electronic and Photonic Technologies (ADEPT 2024))
- AFD07 MAŤÚŠ, Marek** - STUHLÍKOVÁ, Ľ. - GREGUŠOVÁ, Dagmar - MORALES, Manuel B. - WEIS, M. - MAREK, J. - RUTERANA, P. Investigation of emission processes in InGaN/GaN quantum well structure. In 12th International Conference on Advances in Electronic and Photonic Technologies - ADEPT 2024 : Proceedings of ADEPT. Editors: M. Feiler, M. Ziman, S. Kováčová, J. Kováč, jr. - Zilina : University of Zilina in EDIS-Publishing Centre of UZ, 2024, s. 89-92. ISBN 978-80-554-2109-4. (VEGA 2/0068/21. International Conference on Advances in Electronic and Photonic Technologies (ADEPT 2024))
- AFD08 NOVÁK, Jozef** - ROSOVÁ, Alica - HASENÖHRL, Stanislav - LETTRICHOVÁ, I. - PUDIŠ, D. Nanoprobes based on 3D gap nanocones prepared by integration on single mode fiber. In 12th International Conference on Advances in Electronic and Photonic Technologies - ADEPT 2024 : Proceedings of ADEPT. Editors: M. Feiler, M. Ziman, S. Kováčová, J. Kováč, jr. - Zilina : University of Zilina in EDIS-Publishing Centre of UZ, 2024, s. 25-28. ISBN 978-80-554-2109-4. (APVV 20-0264. APVV 20-0437. VEGA 2/0104/17. International Conference on Advances in Electronic and Photonic Technologies (ADEPT 2024))

AFF Abstrakty pozvaných príspevkov z domácich konferencií

- AFF01 CHROMIK, Štefan - ŠPANKOVÁ, Marianna - ROSOVÁ, Alica - DOBROČKA, Edmund - GREGOR, M. - HRDÁ, Jana - TALACKO, Marcel - CORDIER, Y. - PÉCZ, B. - GIANNAZZO, F. Certain challenges in the preparation and characterization of 2D MoS₂ films on wide bandgap semiconductor substrates. In Proceedings of 14th Conference Solid State Surfaces and Interfaces : Extended Abstract Book. - Bratislava : Comenius University, Slovak Republic, 2024, p. 28. ISBN 978-80-223-5941-2.

AFG Abstrakty príspevkov zo zahraničných konferencií

- AFG01 IZSÁK, Tibor**. Tailorable diamond cavities: a novel approach to self-standing diamond film fabrication. In NANOCON 2024 : Abstracts. Different Authors. - Ostrava : TANGER Ltd., 2024, p. 7. ISBN 978-80-88365-20-4.
- AFG02 KUZMÍK, Ján - HASENÖHRL, Stanislav - STOKLAS, Roman - DOBROČKA, Edmund - ROSOVÁ, Alica - KUČERA, Michal - ELIÁŠ, Peter - GUCMANN, Filip - GREGUŠOVÁ, Dagmar - HAŠČÍK, Štefan - KALETA, A. - CHAUVAT, M.-P. - KRET, S. - RUTERANA, P. InN/InAlN heterostructures for new generation of fast electronics. In GaN Marathon 2024. - Padova : Univ. di Padova, 2024, p. 71-72. ISBN 978-88-5495-7433.
- AFG03 NOVÁK, Jozef** - ROSOVÁ, Alica - HASENÖHRL, Stanislav - SOJKOVÁ, Michaela - KOVÁČ, Jaroslav - KOVÁČ, Jaroslav Jr. - LETTRICHOVÁ, I. Focused Ion Beam technology as an excellent tool for integration of the three dimensional GaP nanocone onto single mode optical fibre. In JVC-19 : Book of Abstracts. - Zagreb : Croatian Vacuum Soc, 2024, p. 21. ISBN 978-953-98154-5-3.
- AFG04 STOKLAS, Roman - ŠICHMAN, Peter - HASENÖHRL, Stanislav - GREGUŠOVÁ, Dagmar - ĽAPAJNA, Milan - HUDEC, Boris - GUCMANN, Filip - HAŠČÍK, Štefan - CHVÁLA, A. - ŠATKA, A. - YUAN, C. - MAO, Y. - KUZMÍK, Ján. Vertical GaN MOS transistors with semi-insulating channel. In GaN Marathon 2024. - Padova : Univ. di Padova, 2024, p. 221-222. ISBN 978-88-5495-7433.
- AFG05 ŠOLTÝS, Ján** - VETROVA, Iuliia - ŠČEPKA, Tomáš - FEDOR, Ján - HAŠČÍK, Štefan - NEILINGER, Pavol - BARÁNEK, Martin - KERN, S. - GRAJCAR, Miroslav. Fabrication of NbTiN superconducting nanowire single-photon detector. In JVC-19 : Book of Abstracts. - Zagreb : Croatian Vacuum Soc, 2024, p. 52. ISBN 978-953-98154-5-3. (APVV 20-0425. VEGA 2/0168/22)
- AFG06 VARGA, Marian** - KESHTKAR, Javad - HUŠEKOVÁ, Kristína - SHARMA, Kavita - SZABÓ, O. - AUBRECHTOVÁ DRAGOUNOVÁ, K. - CORA, Ildikó - GUCMANN, Filip - ĽAPAJNA, Milan - KROMKA, A. Polycrystalline Ga₂O₃/diamond heterojunctions for next-generation deep-uv solar-blind photodetectors: a comparative study of growth approaches. In NANOCON 2024 : Abstracts. Different Authors. - Ostrava : TANGER Ltd., 2024, p. 80. ISBN 978-80-88365-20-4.

AFH Abstrakty príspevkov z domácich konferencií

- AFH01 BENNÁR, Michal - CHROMIK, Štefan - TALACKO, Marcel - CHLPÍK, J. - ZÁPRAŽNÝ, Zdenko - ŠPANKOVÁ, Marianna. Formation of a polylactic acid monolayer on gold for potential applications in spintronics. In Proceedings of 14th Conference Solid State Surfaces and Interfaces : Extended Abstract Book. - Bratislava : Comenius University, Slovak Republic, 2024, p. 18. ISBN 978-80-223-5941-2.
- AFH02 MOŠKO, Martin - KOSCELANSKÁ, M. - MOŠKOVÁ, Antónia - VIDIŠ, M. - VOLKOV, S. - GREGOR, M. - POLÁČKOVÁ, Milena - ROCH, T. - GRANČIČ, B. - SATRAPINSKY, L. - KÚŠ, P. - PLECENÍK, A. - PLECENIK, T. Characterization of conductive nanofilament(s) in TiO₂ memristor by point contact Andreev reflection spectroscopy. In Proceedings of 14th Conference Solid State Surfaces and Interfaces : Extended Abstract Book. - Bratislava : Comenius University, Slovak Republic, 2024, p. 40-43. ISBN 978-80-223-5941-2.
- AFH03 PINČÍK, Emil - KOBAYASHI, Hiroshi - TAKAHASHI, Masao - MIKULA, Milan - VOJTEK, Pavel - ZÁBUDLÁ, Zuzana - GREGUŠ, Jan - KUČERA, Michal - BAČOVÁ, Silvia - BRUNNER, Róbert. Porous silicon, corresponding solar cells and CN-based passivation of defect states. In Proceedings of 14th Conference Solid State Surfaces and Interfaces : Extended Abstract Book. - Bratislava : Comenius

- AFH04 University, Slovak Republic, 2024, p. 52. ISBN 978-80-223-5941-2. (VEGA č. 2/0007/23 : Výskum a optimalizácia vlastností štruktúr na báze čierneho c-Si a čierneho poly-Si pre výrobu veľkoplošných vysokoúčinných slnečných článkov) TALACKO, Marcel - CHROMIK, Štefan - ŠPANKOVÁ, Marianna - DVUREČENSKIJ, Andrej - ŠKRÁTEK, Martin - CIGÁŇ, Alexander. Magnetic properties of YBCO thin film structure irradiated by low energy electron beam. In Proceedings of 14th Conference Solid State Surfaces and Interfaces : Extended Abstract Book. - Bratislava : Comenius University, Slovak Republic, 2024, p. 65. ISBN 978-80-223-5941-2.

AGJ Patentové prihlášky, prihlášky úžitkových vzorov, prihlášky dizajnov, prihlášky ochranných známok, žiadosti o udelenie dodatkových ochranných osvedčení...

- AGJ01 HUDEEC, Boris - GUCMANN, Filip - ŤAPAJNA, Milan - KURBEL, M. - ZELENAY, Milan. Stereolithography module for vacuum systems : prihláška patentu EP 50038-2023
- AGJ02 HUDEEC, Boris - GUCMANN, Filip - ŤAPAJNA, Milan - KURBEL, M. - ZELENAY, Milan. Stereolitografický modul pre vákuové komory : 13.03.2024 udelený Úžitkový vzor č. 9992. Spoluvlastník Bizzcom s.r.o.
- AGJ03 CHROMIK, Štefan - TALACKO, Marcel - ŠPANKOVÁ, Marianna - JUNG, G. Spôsob prípravy kanálov s potlačenou supravodivosťou v YBa₂Cu₃O_{7-x} mikropáske s využitím skenovania elektrónovým lúčom : Rozhodnutie o udelení patent: 10.10.2024. Číslo patentu: 289265
- AGJ04 SKÁKALOVÁ, Viera - KOTRUSZ, Peter - HULMAN, Martin - BERNÁTH, K. Method for depositing two-dimensional layered heterostructures on a substrate : prihláška EP24195344.7

GII Rôzne publikácie a dokumenty, ktoré nemožno zaradiť do žiadnej z predchádzajúcich kategórií

- GII01 BENNÁR, Michal** - CHROMIK, Štefan - ŠPANKOVÁ, Marianna - TALACKO, Marcel - KRONEK, Juraj - CHLPÍK, J. - NÁDAŽDY, Peter. Fundamental preparation of polylactic acid self-assembled monolayers for future spintronic applications. In 2024 IEEE 14th International Conference “Nanomaterials: Applications & Properties” (IEEE NAP-2024) : Book of Abstracts, Riga, Latvia, September 8–13, 2024, no. 08nmm-14. Dostupné na internete: https://ieeenap.org/data/IEEE_NAP_2024_Abstract_Book.pdf
- GII02 KALMYKOVA, Tetiana** - KRYLOV, Sergei - CAMBEL, Vladimír. Focused ion beam parameters influence on magnetic properties of the nanostructures. In 2024 IEEE 14th International Conference “Nanomaterials: Applications & Properties” (IEEE NAP-2024) : Book of Abstracts, Riga, Latvia, September 8–13, 2024, no. 08nmm-8. Dostupné na internete: https://ieeenap.org/data/IEEE_NAP_2024_Abstract_Book.pdf
- GII03 ŠOLTÝS, Ján - VETROVA, Ľiliia - FEILHAUER, Juraj - KRYLOV, Sergei - FEDOR, Ján - CAMBEL, Vladimír. Unconventional MFM probe with improved durability. In 9th Multifrequency AFM Conference : Madrid 2023. Book of Abstracts. Dostupné na internete: https://wp.icmm.csic.es/multifrequency-afm/wp-content/uploads/sites/47/2023/06/Book-of-Abstracts-9th_230612.pdf
- GII04 TÓBIK, Jaroslav**. Dynamical symmetry breaking in magnetic systems. In 2024 IEEE 14th International Conference “Nanomaterials: Applications & Properties” (IEEE NAP-2024) : Book of Abstracts, Riga, Latvia, September 8–13, 2024, no. 12tm-4. Dostupné na internete:

- https://ieeenap.org/data/IEEE_NAP_2024_Abstract_Book.pdf
- GII05 TÓBIK, Jaroslav** - FEILHAUER, Juraj - ŠOLTÝS, Ján - ŠČEPKA, Tomáš - KRYLOV, Sergei - CAMBEL, Vladimír - MRUCZKIEWICZ, Michal. Towards magnetically ordered artificial spin crystals. In 2024 IEEE 14th International Conference “Nanomaterials: Applications & Properties” (IEEE NAP-2024) : Book of Abstracts, Riga, Latvia, September 8–13, 2024, no. 08nmm-16. Dostupné na internete: https://ieeenap.org/data/IEEE_NAP_2024_Abstract_Book.pdf
- GII06 VETROVA, Iuliia - ŠOLTÝS, Ján - FEILHAUER, Juraj - ŠČEPKA, Tomáš - FEDOR, Ján - MRUCZKIEWICZ, Michal - CAMBEL, Vladimír. Fabrication of the artificial magnonic crystals and controlling their magnetization states. In Magnétisme 2024 : GDR MEETICC, Strasbourg 2024. Dostupné na internete: https://meeticc-mag-24.sciencesconf.org/data/pages/Fascicule_Programme_vf.pdf

Ohlasy (citácie):

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

- ABC01 HULMAN, Martin**. Raman spectroscopy of graphene. In Graphene : properties, preparation, characterization, and applications. - Elsevier, 2021, p. 381-412. ISBN 978-0-08-102848-3.
- Citácie:
- [1.1] *CHOW, D. - BURNS, N. - BOATENG, E. - VAN DER ZALM, J. - KYCIA, S. - CHEN, A.C. Mechanical Exfoliation of Expanded Graphite to Graphene-Based Materials and Modification with Palladium Nanoparticles for Hydrogen Storage. In NANOMATERIALS. SEP 2023, vol. 13, no. 18. Dostupné na: <https://doi.org/10.3390/nano13182588>, Registrované v: WOS*
 - [1.1] *LEI, J.T. - WANG, Y.Q. - LI, Z.A. - CHEN, P.P. - CHEN, J.Z. - HOU, Y.L. - ZHAO, D.L. Hollow sea urchin-like microspheres of the dual transition metal oxides NiO/Co3O4 immobilized on rGO enhance lithium-ion battery cycling and rate performance. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, DEC 25 2023, vol. 969. Dostupné na: <https://doi.org/10.1016/j.jallcom.2023.172376>, Registrované v: WOS*
- ABC02 KRATOŠOVÁ, G. - VÁVRA, Ivo - HORSKÁ, K. - ŽITOVSKÝ, O. - NĚMCOVÁ, Y. - BOHUNICKÁ, M. - SLABOTINSKÝ, J. - ROSENBERGOVÁ, K. - KADILAK, A. - SCHRÖFEL, A. Synthesis of metallic nanoparticles and by diatoms and chrysophytes – prospects and applications. In Green Biosynthesis of Nanoparticles : Mechanisms and Applications. - Wallingford : CABI, 2013, chap. 5, p. 61. ISBN 978-1-78064-223-9.
- Citácie:
- [1.1] *LENGYEL, E. - BARRETO, S. - PADISAK, J. - STENGER-KOVACS, C. - LAZAR, D. - BUCZKÓ, K. Contribution of silica-scaled chrysophytes to ecosystems services: a review. In HYDROBIOLOGIA. ISSN 0018-8158, JUL 2023, vol. 850, no. 12-13, SI, p. 2735-2756. Dostupné na: <https://doi.org/10.1007/s10750-022-05075-5>, Registrované v: WOS*
- ABC03 KRATOŠOVÁ, G. - DĚDKOVÁ, K. - VÁVRA, Ivo - ČIAMPOR, Fedor. Investigation of nanoparticles in biological objects by electron microscopy techniques. In Intracellular Delivery II : Fundamentals and Applications. - Springer, 2014, p. 165-187. ISBN 978-94-017-8896-0. Dostupné na: https://doi.org/10.1007/978-94-017-8896-0_8
- Citácie:
- [1.1] *BISHOYI, A.K. - SAHOO, C.R. - PADHY, R.N. Recent progression of cyanobacteria and their pharmaceutical utility: an update. In JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS. ISSN 0739-1102, JUN 13 2023, vol. 41, no. 9, p. 4219-4252. Dostupné na: <https://doi.org/10.1080/07391102.2022.2062051>, Registrované v: WOS*
- ABC04 PARDO, Enric - GRILLI, F. Electromagnetic modeling of superconductors. In Numerical modeling of superconducting applications : Simulation of electromagnetics, thermal stability, thermo-hydraulics and mechanical effects in large-scale superconducting devices. - Singapur : World Scientific Publishing Co. Pte. Ltd., 2023, p. 1-104. ISBN 978-981-127-143-4. Dostupné na: <https://doi.org/10.1142/13282> (APVV 19-0536. VEGA 2/0097/18)
- Citácie:
- [1.1] *WANG, S.J. - YONG, H.D. - ZHOU, Y.H. Numerical calculations of high temperature superconductors with the J-A formulation. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acfbbe>, Registrované v: WOS*

ABC05

ŤAPAJNA, Milan - KOLLER, C. Reliability Issues in GaN electronic devices. In Nitride semiconductor technology : power electronics and optoelectronic devices. - Weinheim : Wiley-VCH, 2020, p. 199-253. ISBN 978-3-527-34710-0.

Citácie:

1. [1.1] DÖRING, P. - SINWELL, M. - MÜLLER, S. - CZAP, H. - DRIAD, R. - BRÜCKNER, P. - KÖHLER, K. - KIRSTE, L. - MIKULLA, M. - QUAY, R. *A Study on the Performance of AlGaIn/GaN HEMTs Regrown on Mg-Implanted GaN Layers With Low Channel Thickness.* In *IEEE TRANSACTIONS ON ELECTRON DEVICES.* ISSN 0018-9383, MAR 2023, vol. 70, no. 3, p. 947-952. Dostupné na: <https://doi.org/10.1109/TED.2023.3237803>, Registrované v: WOS

2. [1.1] ZAFAR, S. - DURNA, Y. - KOCER, H. - AKOGLU, B.C. - ARAS, Y.E. - ODABASI, O. - BUTUN, B. - OZBAY, E. *Unveiling T_{max} Inside GaN HEMT Based X-Band Low-Noise Amplifier by Correlating Thermal Simulations and IR Thermographic Measurements.* In *IEEE TRANSACTIONS ON DEVICE AND MATERIALS RELIABILITY.* ISSN 1530-4388, MAR 2023, vol. 23, no. 1, p. 72-79. Dostupné na: <https://doi.org/10.1109/TDMR.2022.3230646>, Registrované v: WOS

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

ADCA01

AARIK, J. - HUDEEC, Boris - HUŠEKOVÁ, Kristína - RAMMULA, R. - KASIKOV, A. - ARROVAL, T. - UUSTARE, T. - FRÖHLICH, Karol. Atomic layer deposition of high-permittivity TiO₂ dielectrics with leakage current on RuO₂ in TiCl₄-based processes. In *Semiconductor Science and Technology*, 2012, vol. 27, 074007. (2011: 1.723 - IF, Q1 - JCR, 1.008 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0268-1242. Dostupné na: <https://doi.org/10.1088/0268-1242/27/7/074007>

Citácie:

1. [1.1] KIM, S.E. - SUNG, J.Y. - JEON, J.D. - JANG, S.Y. - LEE, H.M. - MOON, S.M. - KANG, J.G. - LIM, H.J. - JUNG, H.S. - LEE, S.W. *Toward Advanced High-k and Electrode Thin Films for DRAM Capacitors via Atomic Layer Deposition.* In *ADVANCED MATERIALS TECHNOLOGIES.* ISSN 2365-709X, OCT 2023, vol. 8, no. 20, SI. Dostupné na: <https://doi.org/10.1002/admt.202200878>, Registrované v: WOS

2. [1.1] YE, F. - XUE, K.H. - YU, H. - YANG, S.X. - YUAN, J.H. - GU, R.C. - XU, M. - MIAO, X.S. *In Quest of Low-Leakage Dynamic Random Access Memory Enabled by Doped TiO₂ Dielectrics.* In *ADVANCED THEORY AND SIMULATIONS.* FEB 2023, vol. 6, no. 2. Dostupné na: <https://doi.org/10.1002/adts.202200614>, Registrované v: WOS

ADCA02

AARIK, L. - ARROVAL, T. - RAMMULA, R. - MÄNDAR, H. - SAMMELSELG, V. - HUDEEC, Boris - HUŠEKOVÁ, Kristína - FRÖHLICH, Karol - AARIK, J. Atomic layer deposition of high-quality Al₂O₃ and Al-doped TiO₂ thin films from hydrogen-free precursors. In *Thin Solid Films*, 2014, vol. 565, p. 19-24. (2013: 1.867 - IF, Q2 - JCR, 0.818 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0040-6090. Dostupné na: <https://doi.org/10.1016/j.tsf.2014.06.038>

Citácie:

1. [1.1] BüYÜKUSLU, H. - KUTLU, N. - KAYA, S. *Influences of gamma irradiation on structural, morphological and luminescence characteristics of Nb doped TiO₂ nanophosphors.* In *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS.* ISSN 0168-583X, FEB 2023, vol. 535, p. 234-240. Dostupné na: <https://doi.org/10.1016/j.nimb.2022.12.016>, Registrované v: WOS

2. [1.1] KIM, S.E. - SUNG, J.Y. - JEON, J.D. - JANG, S.Y. - LEE, H.M. - MOON, S.M. - KANG, J.G. - LIM, H.J. - JUNG, H.S. - LEE, S.W. *Toward Advanced High-k and Electrode Thin Films for DRAM Capacitors via Atomic Layer Deposition. In ADVANCED MATERIALS TECHNOLOGIES. ISSN 2365-709X, OCT 2023, vol. 8, no. 20, SI. Dostupné na: <https://doi.org/10.1002/admt.202200878>, Registrované v: WOS*

ADCA03 ÁBEL, M. - ZÁCHENSKÁ, J. - DOBROČKA, Edmund - ZEMANOVÁ, Matilda**. Electrochemical properties of pulse plated Ni-W alloy coatings in alkaline electrolytes. In Transactions of the Institute of Metal Finishing, 2021, vol. 99, p. 23-28. (2020: 1.244 - IF, Q3 - JCR, 0.293 - SJR, Q3 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0020-2967. Dostupné na: <https://doi.org/10.1080/00202967.2020.1841453>

Citácie:

1. [1.1] XU, Y.J. - WANG, D.Y. - SHENG, M.Q. - WANG, H.H. *Internal stress of high tungsten content Ni-W alloy coatings. In SURFACE ENGINEERING. ISSN 0267-0844, JUN 3 2023, vol. 39, no. 6, p. 769-779. Dostupné na: <https://doi.org/10.1080/02670844.2023.2257855>, Registrované v: WOS*

ADCA04 ABERMANN, S. - POZZOVIVO, G. - KUZMÍK, Ján - STRASSER, G. - POGANY, D. - CARLIN, J.-F. - GRANDJEAN, N. - BERTAGNOLLI, E. MOCVD of HfO₂ and ZrO₂ high-k gate dielectrics for InAlN/AlN/GaN MOS-HEMTs. In Semiconductor Science and Technology, 2007, vol. 22, p. 1272-1275. (2006: 1.586 - IF, Q1 - JCR, 1.191 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0268-1242.

Citácie:

1. [1.1] BHARDWAJ, N. - UPADHYAY, B.B. - PARVEZ, B. - POHEKAR, P. - YADAV, Y. - SAHU, A. - PATIL, M. - BASAK, S. - SAHU, J. - SABIHA, F.S.A. - GANGULY, S. - SAHA, D. *Improved RF-DC characteristics and reduced gate leakage in GaN MOS-HEMTs using thermally grown Nb₂O₅ gate dielectric. In PHYSICA SCRIPTA. ISSN 0031-8949, JAN 1 2023, vol. 98, no. 1. Dostupné na: <https://doi.org/10.1088/1402-4896/aca438>, Registrované v: WOS*

2. [1.1] YADAV, G. - JINDAL, K. - TOMAR, M. *Influence of pulsed laser deposited hafnium oxide thin film as gate dielectric on the fabrication of Al_{0.1}Ga_{0.9}N/GaN MOS-HEMT. In MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING. ISSN 1369-8001, JAN 2023, vol. 153.*

Dostupné na: <https://doi.org/10.1016/j.mssp.2022.107136>, Registrované v: WOS

ADCA05 ADIKIMENAKIS, A.** - CHATZOPOULOU, P. - DIMITRAKOPULOS, G.P. - KEHAGIAS, Th. - TSAGARAKI, K. - ANDROULIDAKI, M. - DOUNDOULAKIS, G. - KUZMÍK, Ján - GEORGAKILAS, A. Correlation of threading dislocations with the electron concentration and mobility in InN heteroepitaxial layers grown by MBE. In ECS Journal of Solid State Science and Technology, 2020, vol. 9, no. 015006. (2019: 2.142 - IF, Q3 - JCR, 0.521 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2162-8769. Dostupné na: <https://doi.org/10.1149/2.0212001JSS>

Citácie:

1. [1.1] FENG, Z.C. - XIE, D. - NAFISA, M.T. - LIN, H.H. - LU, W.J. - CHEN, J.M. - YIN, J. - CHEN, K.H. - CHEN, L.C. - KLEIN, B. - FERGUSON, I.T. *Optical, surface, and structural studies of InN thin films grown on sapphire by molecular beam epitaxy. In JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A. ISSN 0734-2101, SEP 2023, vol. 41, no. 5. Dostupné na: <https://doi.org/10.1116/6.0002665>, Registrované v: WOS*

2. [1.1] LOO, C.C. - NG, S.S. - YU, H.W. - CHANG, E.Y. - DEE, C.F. - CHANG, W.S. *Probing the charge state of threading dislocations in indium nitride through*

advanced atomic force microscopy. In MATERIALS CHARACTERIZATION. ISSN 1044-5803, NOV 2023, vol. 205. Dostupné na:

<https://doi.org/10.1016/j.matchar.2023.113279>, Registrované v: WOS

ADCA06

AINSLIE, M.D.** - GRILLI, F. - QUEVAL, L. - PARDO, Enric - PEREZ-MENDEZ, F. - MATAIRA, R. - MORANDI, A. - GHABELLI, Asef - BUMBY, C. - BRAMBILLA, R. A new benchmark problem for electromagnetic modelling of superconductors: the high-Tc superconducting dynamo. In Superconductor Science and Technology, 2020, vol. 33, no. 105009. (2019: 3.067 - IF, Q2 - JCR, 0.991 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/abae04>

Citácie:

1. [1.1] CARVALHO, D.J.G. - DA SILVA, F.F. - FERNANDES, J.F.P. - BRANCO, P.J.D. Finite-element recipes for HTS-coated conductors and HTS tape topologies. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, OCT 1 2023, vol. 36, no. 10. Dostupné na: <https://doi.org/10.1088/1361-6668/acf4c3>, Registrované v: WOS

2. [1.1] DOS SANTOS, G. - SANTOS, B.M.O. - SASS, F. - MARTINS, F.G.D. - SOTELO, G.G. - DE ANDRADE, R Jr. J-A formulation: A finite element methodology for simulating superconducting devices. In SUPERCONDUCTIVITY. JUN 2023, vol. 6. Dostupné na:

<https://doi.org/10.1016/j.supcon.2023.100049>, Registrované v: WOS

3. [1.1] KALSI, S.S. - STOREY, J.G. - BROOKS, J.M. - LUMSDEN, G. - BADCOCK, R.A. Superconducting Synchronous Motor Development for Airplane Applications-Mechanical and Electrical Design of a Prototype 100 kW Motor. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na:

<https://doi.org/10.1109/TASC.2023.3242629>, Registrované v: WOS

4. [1.1] LI, X.H. - TANG, Y.J. - REN, L. - HUANG, H.Y. - SHI, J. - WANG, Z.Z. - YU, P. - LI, Z.H. - WANG, Z. - ZHANG, A.L. - XU, Y. Transient research on distribution networks incorporating superconducting cables utilizing field-circuit coupling method. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, DEC 1 2023, vol. 36, no. 12. Dostupné na:

<https://doi.org/10.1088/1361-6668/ad01eb>, Registrované v: WOS

5. [1.1] OLIVEIRA, R. - ZENG, X. - PEI, X. - BURKE, R. HTS-Tape Magnetic Bearing for Ultra High-Speed Turbo Motor. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3253064>, Registrované v: WOS

6. [1.1] VIARENGO, S. - BROUWER, L. - FERRACIN, P. - FRESCHI, F. - RIVA, N. - SAVOLDI, L. - WANG, X.R. A New Coupled Electrodynamical T - A and Thermal Model for the Critical Current Characterization of High-Temperature Superconducting Tapes and Cables. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 107548-107561. Dostupné na:

<https://doi.org/10.1109/ACCESS.2023.3321194>, Registrované v: WOS

ADCA07

ALIEV, F.G. - SCHAD, R. - VOLODIN, A. - TEMST, K. - HAESENDOCK, C. van - BRUYNSERAEDE, Y. - VÁVRA, Ivo - DUGAEV, V.K. - VILLAR, R. Electron interaction with domain walls in antiferromagnetically coupled multilayers. In Europhysics Letters, 2003, vol. 63, p. 888-894. (2002: 2.360 - IF, karentované - CCC). (2003 - Current Contents). ISSN 0295-5075.

Citácie:

1. [1.2] KAWAZOE, Yoshiyuki - NOTE, Ryunosuke. Magnetic properties of metals: Magnetic and electric properties of magnetic metallic multilayers: A supplement to Landolt-Börnstein III/32 series. In Magnetic Properties of Metals:

- Magnetic and Electric Properties of Magnetic Metallic Multilayers: A Supplement to Landolt-Börnstein III/32 Series, 2023-06-06, pp. 1-1054. Dostupné na: <https://doi.org/10.1007/978-3-662-64909-1>, Registrované v: SCOPUS*
- ADCA08 ALIEV, F.G. - SCHAD, R. - LOBOTKA, Peter - VÁVRA, Ivo - SEYNAEVE, E. - MOSHALKOV, V.V. - BRUYNSERAEDE, Y. Nonlinear electron transport in magnetic multilayers. In Applied Physics Letters, 1999, vol. 75, no. 5, p. 704-706. (1998: 3.349 - IF, karentované - CCC). (1999 - Current Contents, SCOPUS). ISSN 0003-6951.
- Citácie:
1. [1.2] *KAWAZOE, Yoshiyuki - NOTE, Ryunosuke. Magnetic properties of metals: Magnetic and electric properties of magnetic metallic multilayers: A supplement to Landolt-Börnstein III/32 series. In Magnetic Properties of Metals: Magnetic and Electric Properties of Magnetic Metallic Multilayers: A Supplement to Landolt-Börnstein III/32 Series, 2023-06-06, pp. 1-1054. Dostupné na: <https://doi.org/10.1007/978-3-662-64909-1>, Registrované v: SCOPUS*
- ADCA09 ALPERN, H. - PERIYASAMY, M. - TANNOUS, J. - JUNG, G. - ZAYTSEVA, I. - ROSOVÁ, Alica - CHROMIK, Štefan - ŠTRBÍK, Vladimír - TALACKO, Marcel - YOCHELIS, S. - YACOBY, Y. - MILLO, O.** - PALTIEL, Y.**. Increasing the transition temperature of high-T-C superconductor thin films by organic linking of gold nanoparticles. In Journal of Superconductivity and Novel Magnetism, 2020, vol. 33, p. 1941-1948. (2019: 1.244 - IF, Q4 - JCR, 0.293 - SJR, Q3 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 1557-1939. Dostupné na: <https://doi.org/10.1007/s10948-020-05450-0>
- Citácie:
1. [1.1] *PRISCHEPA, S.L. - KUSHNIR, V.N. Phonon softening in nanostructured phonon-mediated superconductors (review). In JOURNAL OF PHYSICS-CONDENSED MATTER. ISSN 0953-8984, AUG 9 2023, vol. 35, no. 31. Dostupné na: <https://doi.org/10.1088/1361-648X/acc6ae>, Registrované v: WOS*
- ADCA10 AMARO, N. - ŠOUČ, Ján - PARDO, Enric - MURTA-PINA, J. - MARTINS, J. - CEBALLOS, J.M. - GÖMÖRY, Fedor. AC losses in Bi-2223 single-pancake coils from 72 to 1152 Hz - modeling and measurements. In IEEE Transactions on Applied Superconductivity, 2016, vol. 26, no. 8202207. (2015: 1.092 - IF, Q3 - JCR, 0.403 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2016.2598770>
- Citácie:
1. [1.1] *ZHU, Y.P. - YANG, X.S. - HU, X.B. - LIU, J. - CAI, L.J. - XU, M. - ZHANG, S.N. - FENG, J.Q. - TAN, Y. - ZHAO, Y. Analysis of critical current and hot spot behavior in Bi-2223 stacked-tape cable for fusion reactor. In FUSION ENGINEERING AND DESIGN. ISSN 0920-3796, JUL 2023, vol. 192. Dostupné na: <https://doi.org/10.1016/j.fusengdes.2023.113848>, Registrované v: WOS*
- ADCA11 AMARO, N. - ŠOUČ, Ján - MURTA-PINA, J. - MARTINS, J. - CEBALLOS, J.M. - GÖMÖRY, Fedor. Contactless loop method for measurement of AC losses in HTS coils. In IEEE Transactions on Applied Superconductivity, 2015, vol. 25, 9000604. (2014: 1.235 - IF, Q3 - JCR, 0.478 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2014.2374155>
- Citácie:
1. [1.1] *IJAGBEMI, K. - SHUKLA, D.P. - KIM, C.H. - TELIKAPALLI, S. - CHEETHAM, P. - PAMIDI, S. Evaluation of Frequency Loss Induced Quench Protection Prototype at 77 K Using HTS Coils. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3252497>, Registrované v: WOS*

ADCA12 AN, K. - BHAT, V.S. - MRUCZKIEWICZ, Michal - DUBS, C - GRUNDLER, D.**. Optimization of spin-wave propagation with enhanced group velocities by exchange-coupled ferrimagnet-ferromagnet bilayers. In *Physical Review Applied*, 2019, vol. 11, no. 034065. (2018: 4.532 - IF, Q1 - JCR, 1.940 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.11.034065>

Citácie:

1. [1.1] WANG, H.C. - WANG, J.L. - CHEN, S.Y. - CHEN, P. - LEGRAND, W. - ZHANG, Y. - SHENG, L.T. - YUAN, R.D. - CHEN, J.L. - YU, G.Q. - WAN, C.H. - HAN, X.F. - LIU, T. - ANSERMET, J.P. - YU, H.M. Reconfigurable nonreciprocal excitation of propagating exchange spin waves in perpendicularly magnetized yttrium iron garnet thin films. In *PHYSICAL REVIEW B*. ISSN 2469-9950, OCT 3 2023, vol. 108, no. 13. Dostupné na:

<https://doi.org/10.1103/PhysRevB.108.134403>, Registrované v: WOS

ADCA13 ASUBAR, J.T.** - YATABE, Z. - GREGUŠOVÁ, Dagmar** - HASHIZUME, T. Controlling surface/interface states in GaN-based transistors: Surface model, insulated gate, and surface passivation. In *Journal of Applied Physics*, 2021, vol. 129, no. 121102. (2020: 2.546 - IF, Q2 - JCR, 0.699 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/5.0039564>

Citácie:

1. [1.1] CHAUDHURI, R.R. - GUPTA, A. - JOSHI, V. - MALIK, R.R. - GUPTA, S.D. - SHRIVASTAVA, M. Physical Insights Into Nano-Second Time Scale Cyclic Stress Induced Dynamic Ron Behavior in AlGaIn/GaN HEMTs-Part I. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. ISSN 0018-9383, DEC 2023, vol. 70, no. 12, p. 6175-6182. Dostupné na:

<https://doi.org/10.1109/TED.2023.3323439>, Registrované v: WOS

2. [1.1] HASAN, S. - JEWEL, M.U. - CRITTENDEN, S.R. - LEE, D. - AVRUTIN, V. - ÖZGÜR, Ü - MORKOÇ, H. - AHMAD, I. MOCVD-grown β -Ga₂O₃ as a Gate Dielectric on AlGaIn/GaN-Based Heterojunction Field Effect Transistor. In *CRYSTALS*. FEB 2023, vol. 13, no. 2. Dostupné na:

<https://doi.org/10.3390/cryst13020231>, Registrované v: WOS

3. [1.1] JOSHI, V. - CHAUDHURI, R.R. - GUPTA, S.D. - SHRIVASTAVA, M. Physical Insights Into Electron Trapping Mechanism in the Carbon-Doped GaIn Buffer in AlGaIn/GaN HEMTs and Its Impact on Dynamic On-Resistance. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. ISSN 0018-9383, JUN 2023, vol. 70, no. 6, SI, p. 3011-3018. Dostupné na:

<https://doi.org/10.1109/TED.2023.3269409>, Registrované v: WOS

4. [1.1] KAWATA, S. - ZHANG, Y.W. - IWATA, N. Breakdown voltage enhancement of p-GaIn/AlGaIn/GaN diode by controlling Mg acceptors for compensating residual Si donors. In *JAPANESE JOURNAL OF APPLIED PHYSICS*. ISSN 0021-4922, JAN 1 2023, vol. 62, no. 5A. Dostupné na:

<https://doi.org/10.35848/1347-4065/ac7630>, Registrované v: WOS

5. [1.1] MALIK, R.R. - SHAJI, A.N. - KHAN, J.Z. - BHATTACHARYA, M. - MUNSHI, M.A. - CHAUDHURI, R.R. - JOSHI, V. - SHRIVASTAVA, M. Interplay of Surface Passivation and Electric Field in Determining ESD Behaviour of p-GaIn Gated AlGaIn/GaN HEMTs. In *2023 45TH ANNUAL EOS/ESD SYMPOSIUM, EOS/ESD*. ISSN 0739-5159, 2023. Dostupné na:

<https://doi.org/10.23919/EOS/ESD58195.2023.10287740>, Registrované v: WOS

6. [1.1] MATSUMURA, K. - ABE, T. - KITADA, T. - KUMASAKA, T. - ITO, N. - TANAKA, T. - NAKAHARA, K. - OTSUKA, T. Channel length dependence of the formation of quantum dots in GaIn/AlGaIn FETs. In *APPLIED PHYSICS*

EXPRESS. ISSN 1882-0778, JUL 1 2023, vol. 16, no. 7. Dostupné na: <https://doi.org/10.35848/1882-0786/ace415>, Registrované v: WOS

7. [1.1] NGUYEN, D.D. - DENG, Y.C. - SUZUKI, T.K. Low-frequency noise in AlTiO/AlGaN/GaN metal-insulator-semiconductor field-effect transistors with non-gate-recessed or partially-gate-recessed structures. In *SEMICONDUCTOR SCIENCE AND TECHNOLOGY. ISSN 0268-1242, SEP 1 2023, vol. 38, no. 9. Dostupné na: <https://doi.org/10.1088/1361-6641/acec64>, Registrované v: WOS*

8. [1.1] OCHI, R. - TOGASHI, T. - OSAWA, Y. - HORIKIRI, F. - FUJIKURA, H. - FUJIKAWA, K. - FURUYA, T. - ISONO, R. - AKAZAWA, M. - SATO, T. Investigation of dominance in near-surface region on electrical properties of AlGaIn/GaN heterostructures using TLM, XPS, and PEC etching techniques. In *APPLIED PHYSICS EXPRESS. ISSN 1882-0778, SEP 1 2023, vol. 16, no. 9. Dostupné na: <https://doi.org/10.35848/1882-0786/acf644>, Registrované v: WOS*

9. [1.1] ODABASI, O. - GHOBADI, A. - GHOBADI, T.G.U. - GUNEYSU, E. - URFALI, E. - YAGLIOGLU, G. - BUTUN, B. - OZBAY, E. Nanometer-Thick Insertion Layer for the Effective Passivation of Surface Traps and Improved Edge Acuity for AlGaIn/GaN HEMTs. In *IEEE TRANSACTIONS ON ELECTRON DEVICES. ISSN 0018-9383, OCT 2023, vol. 70, no. 10, p. 5081-5086. Dostupné na: <https://doi.org/10.1109/TED.2023.3305971>, Registrované v: WOS*

10. [1.1] PANTLE, F. - WOERLE, S. - KARLINGER, M. - RAUH, F. - KRAUT, M. - STUTZMANN, M. Environmental sensitivity of GaN nanofins grown by selective area molecular beam epitaxy. In *NANOTECHNOLOGY. ISSN 0957-4484, APR 23 2023, vol. 34, no. 17. Dostupné na: <https://doi.org/10.1088/1361-6528/acb4f6>, Registrované v: WOS*

11. [1.1] ROCHA, P.F.P.P. - VAUCHE, L. - PIMENTA-BARROS, P. - RUEL, S. - ESCOFFIER, R. - BUCKLEY, J. Recent Developments and Prospects of Fully Recessed MIS Gate Structures for GaN on Si Power Transistors. In *ENERGIES. APR 2023, vol. 16, no. 7. Dostupné na: <https://doi.org/10.3390/en16072978>, Registrované v: WOS*

12. [1.1] RUMMEL, B.D. - COOPER, J.A. - MORISETTE, D.T. - YATES, L. - GLASER, C.E. - BINDER, A.T. - RAMADOSS, K. - KAPLAR, R.J. Sources of error and methods to improve accuracy in interface state density analysis using quasi-static capacitance-voltage measurements in wide bandgap semiconductors. In *JOURNAL OF APPLIED PHYSICS. ISSN 0021-8979, SEP 28 2023, vol. 134, no. 12. Dostupné na: <https://doi.org/10.1063/5.0158333>, Registrované v: WOS*

13. [1.1] SHVILBERG, L. - MIMURA, T. - XUE, H.T. - WIERER, JJ Jr - PAISLEY, E.A. - HEINRICH, H. - IHLEFELD, J.F. Electrical Performance of Sputtered Epitaxial Magnesium Oxide on n-Type Gallium Nitride Metal-Oxide-Semiconductor Devices. In *IEEE TRANSACTIONS ON ELECTRON DEVICES. ISSN 0018-9383, JUL 2023, vol. 70, no. 7, p. 3442-3446. Dostupné na: <https://doi.org/10.1109/TED.2023.3269406>, Registrované v: WOS*

14. [1.1] SUN, R.J. - BHATTACHARYYA, A. - SALEH, M. - KRISHNAMOORTHY, S. - SCARPULLA, M.A. Influences of Orientation and Remote O₂ Plasma Exposure on the Interface Properties of SiO₂/β-Ga₂O₃ MOS Capacitors. In *IEEE TRANSACTIONS ON ELECTRON DEVICES. ISSN 0018-9383, MAR 2023, vol. 70, no. 3, p. 1188-1193. Dostupné na: <https://doi.org/10.1109/TED.2023.3235322>, Registrované v: WOS*

15. [1.1] WU, Z. - REN, K.L. - ZHANG, X.S. - AN, Y. - YIN, L.Q. - LU, X.Z. - GUO, A.Y. - ZHANG, J.H. Physical mechanisms on the size-effect in GaN-based Micro-LEDs. In *MICRO AND NANOSTRUCTURES. MAY 2023, vol. 177. Dostupné na: <https://doi.org/10.1016/j.micrna.2023.207542>, Registrované v: WOS*

16. [1.1] ZHANG, Y. - GU, Y.T. - CHEN, J.X. - ZHU, Y.T. - CHEN, B.L. - JIANG, H.X. - LAU, K.M. - ZOU, X.B. *Small Vth Shift and Low Dynamic RON in GaN MOSHEMT With ZrO2 Gate Dielectric. In IEEE TRANSACTIONS ON ELECTRON DEVICES. ISSN 0018-9383, NOV 2023, vol. 70, no. 11, p. 5590-5595. Dostupné na: <https://doi.org/10.1109/TED.2023.3313999>, Registrované v: WOS*
17. [1.2] KNEZEVIC, Tihomir - NANVER, Lis K. *Identifying nano-Schottky diode currents in silicon diodes with 2D interfacial layers. In IEEE International Conference on Microelectronic Test Structures, 2023-01-01, 2023-March, pp. Dostupné na: <https://doi.org/10.1109/ICMTS55420.2023.10094164>, Registrované v: SCOPUS*
- ADCA14 ATTOLINI, G. - BOCCHI, C. - GERMINI, F. - PELOSI, A. - TARRICONE, L. - KÚDELA, Róbert - HASENÖHRL, Stanislav. *Effects of inhomogeneities and ordering in InGaP/GaAs system grown by MOVPE. In Materials Chemistry and Physics, 2000, vol. 66, no. 2-3, p. 246-252. ISSN 0254-0584.*
Citácie:
1. [1.1] YANG, S.Y. - GUO, N. - PEI, Y.C. - YUAN, W.L. - LI, Y.K. - ZHAO, S.Q. - ZHANG, Y. - LIU, X.F. *High Uniformity 6-Inch InGaP Epitaxial Growth. In CRYSTALS. AUG 2023, vol. 13, no. 8. Dostupné na: <https://doi.org/10.3390/cryst13081165>, Registrované v: WOS*
- ADCA15 AZIMI, H. - FOURNIER, D. - WIRIX, M. - DOBROČKA, Edmund - AMERI, T. - MACHUI, F. - RODMAN, S. - DENNLER, G. - SCHRABER, M.C. - HINGERL, K. - LOOS, J. - BRABEC, C.J. - MORANA, M. *Nano-morphology characterization of organic bulk heterojunctions based on mono and bis-adduct fullerenes. In Organic Electronics, 2012, vol. 13, p. 1315-1321. (2011: 4.047 - IF, Q1 - JCR, 1.941 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1566-1199. Dostupné na: <https://doi.org/10.1016/j.orgel.2012.03.031>*
Citácie:
1. [1.1] HOU, X.Y. - COKER, J.F. - YAN, J. - SHI, X.Y. - AZZOUZI, M. - EISNER, F.D. - MCGETTRICK, J.D. - TULADHAR, S.M. - ABRAHAMS, I. - FROST, J.M. - LI, Z. - DENNIS, T.J.S. - NELSON, J. *Structure-Property Relationships for the Electronic Applications of Bis-Adduct Isomers of Phenyl-C61 Butyric Acid Methyl Ester. In CHEMISTRY OF MATERIALS. ISSN 0897-4756, DEC 28 2023, vol. 36, no. 1, p. 425-438. Dostupné na: <https://doi.org/10.1021/acs.chemmater.3c02353>, Registrované v: WOS*
- ADCA16 BABCHENKO, Oleg** - VANKO, Gabriel - GERBOC, Michal - IZSÁK, Tibor - VOJS, M. - LALINSKÝ, Tibor - KROMKA, A. *Study on electronic properties of diamond/SiNx-coated AlGaIn/GaN high electron mobility transistors operating up to 500 °C. In Diamond and Related Materials, 2018, vol. 89, p. 266-272. (2017: 2.232 - IF, Q2 - JCR, 0.686 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0925-9635. Dostupné na: <https://doi.org/10.1016/j.diamond.2018.09.014>*
Citácie:
1. [1.1] ABDULLAH, M.F. - HUSSIN, M.R.M. - ISMAIL, M.A. - SABLI, S.K.W. *Chip-level thermal management in GaN HEMT: Critical review on recent patents and inventions. In MICROELECTRONIC ENGINEERING. ISSN 0167-9317, MAR 15 2023, vol. 273. Dostupné na: <https://doi.org/10.1016/j.mee.2023.111958>, Registrované v: WOS*
2. [1.1] WANG, Y.N. - HU, X.F. - GE, L. - LIU, Z.H. - XU, M.S. - PENG, Y. - LI, B. - YANG, Y.Q. - LI, S.Q. - XIE, X.J. - WANG, X.W. - XU, X.A. - HU, X.B. *Research Progress in Capping Diamond Growth on GaN HEMT: A Review. In CRYSTALS. MAR 2023, vol. 13, no. 3. Dostupné na:*

<https://doi.org/10.3390/cryst13030500>, Registrované v: WOS

3. [1.1] YANG, C. - WANG, J. - MA, D.Z. - LI, Z.Q. - HE, Z.Y. - LIU, L.H. - FU, Z.W. - YANG, J.Y. Phonon transport across GaN-diamond interface: The nontrivial role of pre-interface vacancy-phonon scattering. In INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER. ISSN 0017-9310, NOV 1 2023, vol. 214. Dostupné na: <https://doi.org/10.1016/j.ijheatmasstransfer.2023.124433>, Registrované v: WOS

ADCA17

BABCHENKO, Oleg - DZUBA, Jaroslav - LALINSKÝ, Tibor - VOJS, M. - VINCZE, A. - IZSÁK, Tibor - VANKO, Gabriel. Stability of AlGaIn/GaN heterostructures after hydrogen plasma treatment. In Applied Surface Science, 2017, vol. 395, p. 92-97. (2016: 3.387 - IF, Q1 - JCR, 0.958 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2016.06.105>

Citácie:

1. [1.1] MIMILA-ARROYO, J. - ARREOLA-PINA, A.S. - JOMARD, F. - LUSSON, A. Effect of the plasma experimental parameters on the dose and profiles of hydrogen in-diffused into the GaN/AlGaIn/GaN/Si high electron mobility transistor. In MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS. ISSN 0921-5107, APR 2023, vol. 290. Dostupné na: <https://doi.org/10.1016/j.mseb.2023.116279>, Registrované v: WOS

2. [1.1] WANG, Y.N. - HU, X.F. - GE, L. - LIU, Z.H. - XU, M.S. - PENG, Y. - LI, B. - YANG, Y.Q. - LI, S.Q. - XIE, X.J. - WANG, X.W. - XU, X.A. - HU, X.B. Research Progress in Capping Diamond Growth on GaN HEMT: A Review. In CRYSTALS. MAR 2023, vol. 13, no. 3. Dostupné na:

<https://doi.org/10.3390/cryst13030500>, Registrované v: WOS

ADCA18

BALOG, Martin** - ROSOVÁ, Alica - SZUNDIOVÁ, Bronislava - OROVČÍK, Ľubomír - KRÍŽIK, Peter - ŠVEC, Peter Jr. - KULICH, Miloslav - KOPERA, Ľubomír - KOVÁČ, Pavol - HUŠEK, Imrich - IBRAHIM, Ahmed Mohamed Hassan. HITEMAL-an outer sheath material for MgB₂ superconductor wires: The effect of annealing at 595-655 degrees C on the microstructure and properties. In Materials and Design, 2018, vol. 157, p. 12-23. (2017: 4.525 - IF, Q1 - JCR, 1.820 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0261-3069. Dostupné na: <https://doi.org/10.1016/j.matdes.2018.07.033>

Citácie:

1. [1.1] GAO, T. - LIU, L.Y. - LI, M.Y. - SUN, Y. - WU, Y.Y. - LIU, X.F. Design of Al based composites reinforced with in-situ Al₂O₃, AlB₂ and Al₁₃Fe₄ particles. In COMPOSITES COMMUNICATIONS. ISSN 2452-2139, JUN 2023, vol. 40. Dostupné na: <https://doi.org/10.1016/j.coco.2023.101629>, Registrované v: WOS

2. [1.1] HERBIROWO, Satrio - YUWONO, Akhmad Herman - SOFYAN, Nofrijon - IMADUDDIN, Agung - PRAMONO, Andika Widya - SUPRIYADI, Sugeng - MOHAMED, Julie Juliewatty. Development of Magnesium Diboride Superconducting Wires through Hot Working with Different Initial Filling Density. In INTERNATIONAL JOURNAL OF TECHNOLOGY, 2023, vol. 14, no. 7, pp. 1570-1577. ISSN 2086-9614. Dostupné na:

<https://doi.org/10.14716/ijtech.v14i7.6695>, Registrované v: WOS

ADCA19

BALOG, Miroslav - SEDLÁČKOVÁ, K. - ZIFCAK, P. - JANEGA, J. Liquid phase sintering of SiC with rare-earth oxides. In Ceramics-Silikáty, 2005, vol. 49, p. 259-262. (2004: 0.385 - IF, karentované - CCC). (2005 - Current Contents, WOS, SCOPUS). ISSN 0862-5468.

Citácie:

1. [1.1] YASAR, Z.A. - DELUCCA, V.A. - HABER, R.A. Investigation of the effect

of pressure, sintering temperature and time on silicon carbide microstructure. In PROCESSING AND APPLICATION OF CERAMICS. ISSN 1820-6131, 2023, vol. 17, no. 2. pp. 189-196, Registrované v: WOS

2. [1.1] YASAR, Z.A. - DELUCCA, V.A. - HABER, R.A. The influence of carbon source and content on structure and mechanical properties of SiC processed via spark plasma sintering method. In PROCESSING AND APPLICATION OF CERAMICS. ISSN 1820-6131, 2022, vol. 16, no. 4, p. 384-390., Registrované v: WOS

ADCA20 BARELI, G. - CHROMIK, Štefan** - CAMERLINGO, C. - TALACKO, Marcel - ROSOVÁ, Alica - ŠPANKOVÁ, Marianna - ŠTRBÍK, Vladimír - SOJKOVÁ, Michaela - JUNG, G. Substrate influence on low energy electron beam processing of YBa₂Cu₃O_{7-δ} thin films. In Applied Surface Science, 2021, vol. 535, no. 147624. (2020: 6.707 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2020.147624>

Citácie:

1. [1.1] KARTHIKEYAN, M. - WATCHARAPASORN, A. - CHANDA, G. - CHAIPISAN, K. - LI, Z.J. Enhanced dual superconducting and ferromagnetic properties of YBCO film tuned with boron and oxygen partial pressures. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, DEC 25 2023, vol. 969. Dostupné na: <https://doi.org/10.1016/j.jallcom.2023.172230>, Registrované v: WOS

ADCA21 BARTOLOME, E. - PAVAU, A. - GUITIERREZ, J. - GRANADOS, X. - POMAR, A. - PUIG, T. - OBRADORS, X. - CAMBEL, Vladimír - ŠOLTÝS, Ján - GREGUŠOVÁ, Dagmar - CHEN, D.-X. - SANCHEZ, A. Artificial magnetic granularity effects on patterned epitaxial YBa₂Cu₃O_{7-x} thin films. In Physical Review B. B.Condensed Matter, 2007, vol. 76, 094508. (2006: 3.107 - IF, Q1 - JCR, 2.620 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents, WOS, SCOPUS). ISSN 1550-235X.

Citácie:

1. [1.1] WANG, Y. - QIN, H.F. - HE, J.Y. - JIANG, W.Y. - XIAO, Q.L. - GE, J.Y. Tunable flux pinning in granular superconducting Pb films. In PHYSICA C - SUPERCONDUCTIVITY AND ITS APPLICATIONS. ISSN 0921-4534, NOV 15 2023, vol. 614. Dostupné na: <https://doi.org/10.1016/j.physc.2023.1354357>, Registrované v: WOS

ADCA22 BAUMANN, P.K. - DOPPELT, P. - FRÖHLICH, Karol - GUEROUDJI, L. - CAMBEL, Vladimír - MACHAJDÍK, Daniel - SCHUMACHER, M. - LINDNER, J. - SCHIENLE, F. - BURGESS, D. - STRAUCH, G. - JUERGENSEN, H. - GUILLON, H. - JIMENEZ, C. Platinum, ruthenium and ruthenium dioxide electrodes deposited by metal organic chemical vapour deposition for oxide applications. In Integrated Ferroelectrics, 2002, vol. 44, p. 135-139. (2002 - Current Contents).

Citácie:

1. [1.1] CHANDRASHEKHAR, R. - YADAV, A.A. Performance of supercapacitors with RuO₂ electrodes spray deposited with aqueous/organic solvent mixtures: effect of substrate temperature. In PHASE TRANSITIONS. ISSN 0141-1594, APR 3 2023, vol. 96, no. 3-4, p. 196-215. Dostupné na:

<https://doi.org/10.1080/01411594.2022.2164495>, Registrované v: WOS

2. [1.1] WANG, C.Y. - HUANG, H.C. - CHOU, C.Y. - CHEN, H.Y. - LING, C.H. - LIN, H.C. - CHEN, M.J. Dielectric Constant Enhancement and Leakage Current Suppression of Metal-Insulator-Metal Capacitors by Atomic Layer Annealing and the Capping Layer Effect Prepared with a Low Thermal Budget. In ACS

- APPLIED ELECTRONIC MATERIALS. APR 17 2023, vol. 5, no. 5, p. 2487-2494.*
Dostupné na: <https://doi.org/10.1021/acsaelm.2c01287>, Registrované v: WOS
- ADCA23 BERNÁT, J. - GREGUŠOVÁ, Dagmar - HEIDELBERG, G. - FOX, A. - MARSO, M. - LUTH, H. - KORDOŠ, Peter. SiO₂/AlGa_n/Ga_n MOSHFET with 0.7 μm gate-length and f_{max}/f_T of 40/24 GHz. In *Electronics Letters*, 2005, vol. 41, p. 667-668. ISSN 0013-5194.
- Citácie:*
1. [1.1] CUI, P. - MOSER, N. - CHEN, H. - XIAO, J.Q. - CHABAK, K.D. - ZENG, Y.P. High-performance HZO/InAlN/GaN MISHEMTs for Ka-band application. In SEMICONDUCTOR SCIENCE AND TECHNOLOGY. ISSN 0268-1242, MAR 1 2023, vol. 38, no. 3. Dostupné na: <https://doi.org/10.1088/1361-6641/acb2ea>, Registrované v: WOS
- ADCA24 BETKO, Július - KORDOŠ, Peter - KUKLOVSKÝ, Stanislav - FORSTER, A. - GREGUŠOVÁ, Dagmar - LUTH, H. Electrical properties of molecular beam epitaxial GaAs layers grown at low temperature. In *Materials Science and Engineering B*, 1994, vol. 28, p. 147.
- Citácie:*
1. [1.1] JUMAAH, A.J. - ROSKOS, H.G. - AL-DAFFAIE, S. Novel antenna-coupled terahertz photodetector with graphene nanoelectrodes. In APL PHOTONICS. ISSN 2378-0967, FEB 1 2023, vol. 8, no. 2. Dostupné na: <https://doi.org/10.1063/5.0127264>, Registrované v: WOS
- ADCA25 BEZÁK, Viktor - KEDRO, Martin - PEVALA, Anton. Longitudinal electrical conductivity heterogenous double-layer metallic films. In *Thin Solid Films*, 1974, vol. 23, p. 305. ISSN 0040-6090.
- Citácie:*
1. [1.1] ELSAFI, B. Giant magnetoresistance effect in co-based spin-valves structure. In BULLETIN OF MATERIALS SCIENCE. ISSN 0250-4707, JUN 17 2023, vol. 46, no. 3. Dostupné na: <https://doi.org/10.1007/s12034-023-02980-w>, Registrované v: WOS
- ADCA26 BLAHO, Michal - GREGUŠOVÁ, Dagmar - HAŠČÍK, Štefan - ŤAPAJNA, Milan - FRÖHLICH, Karol - ŠATKA, A. - KUZMÍK, Ján. Annealing, temperature, and bias-induced threshold voltage instabilities in integrated E/D-mode InAlN/GaN MOS HEMTs. In *Applied Physics Letters*, 2017, vol. 111, art. no. 033506. (2016: 3.411 - IF, Q1 - JCR, 1.673 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/1.4995235>
- Citácie:*
1. [1.1] ZHANG, H. - ZHENG, X.F. - WANG, X.H. - ZHU, T. - WANG, Y.Z. - MA, X.H. - HAO, Y. Characterization of different trap states in AlGa_n/Ga_n MISHEMTs under high reverse gate stress. In MICRO AND NANOSTRUCTURES. JUN 2023, vol. 178. Dostupné na: <https://doi.org/10.1016/j.micrna.2023.207579>, Registrované v: WOS
- ADCA27 BLAHO, Michal - GREGUŠOVÁ, Dagmar - JURKOVIČ, Michal - HAŠČÍK, Štefan - FEDOR, Ján - KORDOŠ, Peter - FRÖHLICH, Karol - BRUNNER, F. - CHO, E.-M. - HILT, O. - WÜRFL, H.-J. - KUZMÍK, Ján. Ni/Au-Al₂O₃ gate stack prepared by low-temperature ALD and lift-off for MOSHEMTs. In *Microelectronic Engineering*, 2013, vol. 112, p. 204-207. (2012: 1.224 - IF, Q2 - JCR, 0.737 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0167-9317. Dostupné na: <https://doi.org/10.1016/j.mee.2013.03.120>
- Citácie:*
1. [1.1] LIN, Y.S. - LU, C.C. AlGa_n/Ga_n Metal Oxide Semiconductor High-Electron Mobility Transistors with Annealed TiO₂ as Passivation and Dielectric

- Layers. In MICROMACHINES. JUN 2023, vol. 14, no. 6. Dostupné na: <https://doi.org/10.3390/mi14061183>, Registrované v: WOS*
- ADCA28 BODIK, Michal** - SOJKOVÁ, Michaela - HULMAN, Martin - ĎAPAJNA, Milan - TRUCHLY, Martin - VÉGSÖ, Karol - JERGEL, Matej - MAJKOVÁ, Eva - ŠPANKOVÁ, Marianna** - ŠIFFALOVIČ, Peter. Friction control by engineering the crystallographic orientation of the lubricating few-layer MoS₂ films. In Applied Surface Science, 2021, vol. 540, no. 1, 148328. (2020: 6.707 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2020.148328>
- Citácie:
1. [1.1] REN, Anhua - KANG, Min - FU, Xiuqing. Tribological behaviour of Ni/WC-MoS₂/sub composite coatings prepared by jet electrodeposition with different nano-MoS₂/sub doping concentrations. In ENGINEERING FAILURE ANALYSIS, 2023, vol. 143, no., pp. ISSN 1350-6307. Dostupné na: <https://doi.org/10.1016/j.engfailanal.2022.106934>, Registrované v: WOS
2. [1.1] SUN, F.L. - SONG, Y.L. - TANG, H. - XU, J. Metallic MoS₂ enhances the performance of water-based drilling fluids. In CHALCOGENIDE LETTERS. ISSN 1584-8663, MAY 2022, vol. 19, no. 5, p. 371-379. Dostupné na: <https://doi.org/10.15251/CL.2022.195.371>, Registrované v: WOS
- ADCA29 BRNDIAROVÁ, Jana** - ŠIFFALOVIČ, Peter - HULMAN, Martin - KÁLOSI, Anna - BODIK, Michal - SKÁKALOVÁ, Viera - MIČUŠÍK, Matej - MARKOVIČ, Zoran M. - MAJKOVÁ, Eva - FRÖHLICH, Karol. Functionalized graphene transistor for ultrasensitive detection of carbon quantum dots. In Journal of Applied Physics, 2019, vol. 126, no. 21, no. 214303. (2018: 2.328 - IF, Q2 - JCR, 0.746 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/1.5120757> (VEGA 2/0136/18)
- Citácie:
1. [1.1] SUBRAMANIAN, Sumathi - GANAPATHY, Sasikala - SUBRAMANIAN, Suguna - ARIVARASAN, Ayyaswamy. CdTe QD-decorated GO nanosheet heterojunction for efficient photocurrent generation and photocatalytic activity. In DALTON TRANSACTIONS, 2023, vol. 52, no. 39, pp. 13971-13982. ISSN 1477-9226. Dostupné na: <https://doi.org/10.1039/d3dt01808c>, Registrované v: WOS
- ADCA30 BRUNEL, M. - ENZO, S. - JERGEL, Matej - MAJKOVÁ, Eva - VÁVRA, Ivo. Structural characterization and thermal-stability of W/Si multilayers. In Journal of Materials Research, 1993, vol. 8, p. 2600. ISSN 0884-2914. Dostupné na: <https://doi.org/10.1557/JMR.1993.2600>
- Citácie:
1. [1.1] RAVINET, N. - MELTCHAKOV, E. - LEJARS, A. - TROUSSEL, P. - DO, A. - KOZIOZIEMSKI, B. - DELMOTTE, F. Design and simulation of multilayer coatings for a multi-channel Wolter-like x-ray imager with large field of view and high resolution. In REVIEW OF SCIENTIFIC INSTRUMENTS. ISSN 0034-6748, OCT 1 2023, vol. 94, no. 10. Dostupné na: <https://doi.org/10.1063/5.0165414>, Registrované v: WOS
- ADCA31 BRYTAVSKYI, I.V. - HUŠEKOVÁ, Kristína - MYNDRUL, V. - PAVLENKO, M. - COY, E. - ZALESKI, K. - GREGUŠOVÁ, Dagmar - YATE, L. - SMYNTYNA, V. - IATSUNSKYI, I.**. Effect of porous silicon substrate on structural, mechanical and optical properties of MOCVD and ALD ruthenium oxide nanolayers. In Applied Surface Science, 2019, vol. 471, p. 686-693. (2018: 5.155 - IF, Q1 - JCR, 1.115 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2018.12.022>
- Citácie:
1. [1.1] LEPIKH, Y.I. - DOYCHO, I.K. Catalytic oxidation of aromatic

- compounds by nanostructured ruthenium dioxide. In PHYSICS AND CHEMISTRY OF SOLID STATE. ISSN 1729-4428, 2023, vol. 24, no. 3, p. 499-502. Dostupné na: <https://doi.org/10.15330/pcss.24.3.499-502>, Registrované v: WOS*
- ADCA32 BUBLIKOV, Konstantin** - TÓBIK, Jaroslav - SADOVNIKOV, A.V. - MRUCZKIEWICZ, Michal**. Vortex gyrotropic mode in curved nanodots. In Journal of Magnetism and Magnetic Materials, 2021, vol. 537, no. 168105. (2020: 2.993 - IF, Q2 - JCR, 0.665 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2021.168105>
Citácie:
1. [1.1] JALIL, W.B.F. - DUGATO, D.A. - ALMEIDA, T.P. - COOPER, D. - GARCIA, F. Self-supported vortex texture in 3D curved magnets. In JOURNAL OF PHYSICS D-APPLIED PHYSICS. ISSN 0022-3727, SEP 21 2023, vol. 56, no. 38. Dostupné na: <https://doi.org/10.1088/1361-6463/acdaa8>, Registrované v: WOS
- ADCA33 BÚRAN, Marek** - VOJENČIAK, Michal - MOŠAŤ, Marek - GHABELI, Asef - SOLOVYOV, Mykola - PEKARČIKOVÁ, M. - KOPERA, Ľubomír - GÖMÖRY, Fedor. Impact of a REBCO coated conductor stabilization layer on the fault current limiting functionality. In Superconductor Science and Technology, 2019, vol. 32, no. 095008. (2018: 2.489 - IF, Q2 - JCR, 0.879 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ab2c8e> (H2020 FASTGRID. VEGA 2/0097/18. VEGA 1/0151/17)
Citácie:
1. [1.1] PARDO, E. - DADHICH, A. Electro-Thermal Modelling by Novel Variational Methods: Racetrack Coil in Short-Circuit. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3252492>, Registrované v: WOS
2. [1.1] YUKI, K. - ITO, S. - HASHIZUME, H. Mechanism of Recovery Performance Improvement With Porous-Stabilized REBCO Tape for Resistive-Type Superconducting Fault Current Limiters. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3256347>, Registrované v: WOS
- ADCA34 BUSSE, F. - NEBEL, R. - HERZOG, P. - DARULA, Marian - SEIDEL, P. Effects of noise and capacitance on the dynamical characteristics of highTc Josephson junctions. In Applied Physics Letters, 1992, vol. 63, p. 1687.
Citácie:
1. [1.1] GOLUBKOV, M.V. - STEPANOV, V.A. - SADAKOV, A.V. - USOL';TSEV, A.S. - MOROZOV, I.V. Investigation of Josephson Contacts Pb0.6In0.4/KFe2As2 and KFe2As2/KFe2As2 and Order Parameter Symmetry Check. In JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS. ISSN 1063-7761, FEB 2023, vol. 136, no. 2, p. 155-162. Dostupné na: <https://doi.org/10.1134/S1063776123020085>, Registrované v: WOS
- ADCA35 BYSTRICKÝ, Roman - TIWARI, S.K. - HUTÁR, Peter - VANČO, L. - SÝKORA, M.**. Synthesis of sulfide perovskites by sulfurization with boron sulfides. In Inorganic Chemistry, 2022, vol. 61, p. 18823–18827. (2021: 5.436 - IF, Q1 - JCR, 1.121 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0020-1669. Dostupné na: <https://doi.org/10.1021/acs.inorgchem.2c03200>
Citácie:
1. [1.1] AGARWAL, S. - TURNLEY, J.W. - PRADHAN, A.A. - AGRAWAL, R. Moderate temperature sulfurization and selenization of highly stable metal

oxides: an opportunity for chalcogenide perovskites. In JOURNAL OF MATERIALS CHEMISTRY C. ISSN 2050-7526, NOV 23 2023, vol. 11, no. 45, p. 15817-15823. Dostupné na: <https://doi.org/10.1039/d3tc02716c>, Registrované v: WOS

2. [1.1] MITHAL, V. - ADHIKARI, S. - JOHARI, P. *Predicting Sulfur-Rich Oxysulfide Perovskites for Water-Splitting Applications Using Machine Learning. In ADVANCED THEORY AND SIMULATIONS. MAY 2023, vol. 6, no. 5.*

Dostupné na: <https://doi.org/10.1002/adts.202200694>, Registrované v: WOS

ADCA36

BYSTRITSKY, V.M. - BYSTRITSKII, Vit.M. - DUDKIN, G.N. - FILIPOWICZ, M. - GAŽI, Štefan - HURAN, Jozef - MESYATS, G.A. - NECHAEV, B.A. - PADALKO, V.N. - PARZHITSKII, S.S. - PENKOV, F.M. - PHILIPPOV, A.V. - TULEUSHEV, Yu.Zh. Effect of the crystal structure of a deuterated target on the yield of neutrons in the dd reaction at ultralow energies. In JETP Letters, 2014, vol. 99, p. 497-502. (2013: 1.364 - IF, Q2 - JCR, 0.793 - SJR, Q2 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0021-3640. Dostupné na: <https://doi.org/10.1134/S0021364014090033>

Citácie:

1. [1.2] RAZINKOV, E. A. - ALEKSAKHIN, V. Yu - ROGOV, Yu N. - SAPOZHNIKOV, M. G. *Elemental analysis of phosphorus ores using the tagged neutron method. In Gornyi Zhurnal, 2022-01-01, 2022, 2, pp. 51-56. ISSN 00172278. Dostupné na: <https://doi.org/10.17580/gzh.2022.02.08>, Registrované v: SCOPUS*

ADCA37

BYSTRITSKY, V.M. - BYSTRITSKY, Vit. M. - DUDKIN, G.N. - FILIPOWICZ, M. - GAŽI, Štefan - HURAN, Jozef - KOBZEV, A.P. - MESYATS, G.A. - NECHAEV, B.A. - PADALKO, V.N. - PARZHITSKII, S.S. - PENKOV, F.M. - PHILIPPOV, A.V. - KAMINSKII, V.L. - TULEUSHEV, Yu.Zh. - WOZNIAK, J. Investigation of temperature dependence of neutron yield and electron screening potentials for d(d,n)3He reaction proceeding in deuterides ZrD₂ and TiD₂. In Physics of Atomic Nuclei, 2012, vol. 75, p. 913-922. (2011: 0.568 - IF, Q4 - JCR, 0.445 - SJR, Q3 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1063-7788. Dostupné na: <https://doi.org/10.1134/S1063778812080054>

Citácie:

1. [1.1] KOWALSKA, A. - CZERSKI, K. - HORODEK, P. - SIEMEK, K. - KACZMARSKI, M. - TARGOSZ-SLECZKA, N. - VALAT, M. - DUBEY, R. - PYSZNAK, K. - TUREK, M. - DROZDZIEL, A. - SLOWIK, J. - BARANOWSKA, J. *Crystal Lattice Defects in Deuterated Zr in Presence of O and C Impurities Studied by PAS and XRD for Electron Screening Effect. In MATERIALS. SEP 2023, vol. 16, no. 18. Dostupné na: <https://doi.org/10.3390/ma16186255>, Registrované v: WOS*

ADCA38

CAJZL, Jakub** - NEKVINDOVÁ, P. - MACKOVÁ, A. - VARGA, Marian - KROMKA, A. Erbium ion implantation into LiNbO₃, Al₂O₃, ZnO and diamond – measurement and modelling – an overview. In Physical Chemistry Chemical Physics, 2022, vol. 24, p. 19052-19072. (2021: 3.945 - IF, Q1 - JCR, 0.899 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/d2cp01803a> (MoRePro 19MRP0010)

Citácie:

1. [1.1] DAVIES, A.E. - WENZEL, M.J. - BRUGGER, C.L. - JOHNSON, J. - PARKINSON, B.A. - HOBERG, J.O. - OLIVEIRA, L.D. *Computationally directed manipulation of cross-linked covalent organic frameworks for membrane applications. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, NOV 22 2023, vol. 25, no. 45, p. 31090-31097. Dostupné na: <https://doi.org/10.1039/d3cp04452a>, Registrované v: WOS*

- ADCA39 CAMBEL, Vladimír - GREGUŠOVÁ, Dagmar - KÚDELA, Róbert. Formation of GaAs three-dimensional objects using AlAs „facet-forming“ sacrificial layer and H₃PO₄, H₂O₂, H₂O based solution. In *Journal of Applied Physics*. - New York : American Institute of Physics, 2003, vol. 94, p. 4643-4648. (2002: 2.281 - IF, karentované - CCC). (2003 - Current Contents, WOS, SCOPUS). ISSN 0021-8979.
Citácie:
1. [1.1] *RUDNIKOV-KEINAN, T. - EZERSKY, V. - MAMAN, N. - GOLAN, Y. Effect of Substrate Faceting on Epitaxial Lead Sulfide Thin Films Deposited from a Solution onto GaAs(100). In CRYSTAL GROWTH & DESIGN. ISSN 1528-7483, JUN 12 2023, vol. 23, no. 7, p. 5314-5322. Dostupné na: <https://doi.org/10.1021/acs.cgd.3c00515>, Registrované v: WOS*
- ADCA40 CAMBEL, Vladimír - ŠOLTÝS, Ján. The influence of sample conductivity on local anodic oxidation by the tip of atomic force microscope. In *Journal of Applied Physics*, 2007, vol. 102, 074315. (2006: 2.316 - IF, Q1 - JCR, 1.944 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents, SCOPUS). ISSN 0021-8979.
Dostupné na: <https://doi.org/10.1063/1.2794374>
Citácie:
1. [1.1] *TSURUMAKI-FUKUCHI, A. - KATASE, T. - OHTA, H. - ARITA, M. - TAKAHASHI, Y. Direct Imaging of Ion Migration in Amorphous Oxide Electronic Synapses with Intrinsic Analog Switching Characteristics. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, APR 5 2023, vol. 15, no. 13, p. 16842-16852. Dostupné na: <https://doi.org/10.1021/acsami.2c21568>, Registrované v: WOS*
- ADCA41 CAMBEL, Vladimír - KARAPETROV, Goran - ELIÁŠ, Peter - HASENÖHRL, Stanislav - KWOK, W.K. - KRAUSE, J. - MAŇKA, Ján. Approaching the pT range with a 2DEG InGaAs/InP Hall sensor at 77K. In *Microelectronic Engineering*, 2000, vol. 51-52, p. 333-342. (1999: 0.810 - IF, karentované - CCC). (2000 - Current Contents). Dostupné na: [https://doi.org/10.1016/S0167-9317\(99\)00491-8](https://doi.org/10.1016/S0167-9317(99)00491-8)
Citácie:
1. [1.1] *MOSTUFA, S. - YARI, P. - REZAEI, B. - XU, K.L. - WU, K. Flexible Magnetic Field Nanosensors for Wearable Electronics: A Review. In ACS APPLIED NANO MATERIALS. JUL 25 2023, vol. 6, no. 15, p. 13732-13765. Dostupné na: <https://doi.org/10.1021/acsanm.3c01936>, Registrované v: WOS*
- ADCA42 CAMBEL, Vladimír - KARAPETROV, Goran. Control of vortex chirality and polarity in magnetic nanodots with broken rotational symmetry. In *Physical Review B*, 2011, vol. 84, no. 014424. (2010: 3.774 - IF, Q1 - JCR, 3.318 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, WOS, SCOPUS). ISSN 1550-235X.
Dostupné na: <https://doi.org/10.1103/PhysRevB.84.014424>
Citácie:
1. [1.1] *DIAZ, J. - ALVAREZ-PRADO, L.M. - VALVIDARES, S.M. - MONTOYA, I. - REDONDO, C. - MORALES, R. - VÉLEZ, M. Spatially Resolving the Magnetic Configuration of Trilayer Submicrometer Disks with Vortex Chiral Asymmetry Using X-Ray Resonant Magnetic Scattering. In PHYSICAL REVIEW APPLIED. ISSN 2331-7019, JUL 6 2023, vol. 20, no. 1. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.20.014008>, Registrované v: WOS*
2. [1.1] *MARY, A. - EDATHUMKANDY, Y.K. - THOMAS, S. Asymmetry-driven reconfigurability of magnetic vortices in hemispherical shells. In PHYSICA SCRIPTA. ISSN 0031-8949, APR 1 2023, vol. 98, no. 4. Dostupné na: <https://doi.org/10.1088/1402-4896/acbff0>, Registrované v: WOS*
3. [1.1] *TÓBIK, J. Dynamical Symmetry Breaking in Magnetic Systems. In PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS. ISSN 1862-6254, SEP 2023, vol. 17, no. 9. Dostupné na: <https://doi.org/10.1002/pssr.202200459>,*

Registrované v: WOS

4. [1.1] XU, M. - JIANG, G.Q. - ZHANG, Z.Y. - ZHANG, J.Y. - HU, C.J. - CHEN, W.L. - CHEN, Y.L. Irreversible switching of vortex core in Pac-man nanodisks induced by rotating magnetic fields. In JOURNAL OF PHYSICS D-APPLIED PHYSICS. ISSN 0022-3727, FEB 2 2023, vol. 56, no. 5. Dostupné na:

<https://doi.org/10.1088/1361-6463/acab11>, Registrované v: WOS

ADCA43

CAMBEL, Vladimír - PRECNER, Marián - FEDOR, Ján - ŠOLTÝS, Ján - TÓBIK, Jaroslav - ŠČEPKA, Tomáš - KARAPETROV, Goran. High resolution switching magnetization magnetic force microscopy. In Applied Physics Letters, 2013, vol. 102, 062405. (2012: 3.794 - IF, Q1 - JCR, 2.570 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/1.4791591>

Citácie:

1. [1.1] JOSTEN, N. - FRANZKA, S. - RAO, Z.Y. - SMOLIAROVA, T. - KOVÁCS, A. - SCHEIBEL, F. - STAAB, F. - ACET, M. - ÇAKIR, A. - DURST, K. - GAULT, B. - DUNIN-BORKOWSKI, R.E. - GUTFLEISCH, O. - FARLE, M. Location and morphology of ferromagnetic precipitates in Ni-Mn-Sn. In PHYSICAL REVIEW MATERIALS. ISSN 2475-9953, DEC 26 2023, vol. 7, no. 12. Dostupné na: <https://doi.org/10.1103/PhysRevMaterials.7.124411>, Registrované v: WOS

2. [1.1] KUMAR, R.R. - GOUR, A.S. - ADYAM, V. Tunable Spatial Resolution of a Scanning Probe Microscopy (SPM) by an Efficient Cryosorption Pump. In IEEE SENSORS JOURNAL. ISSN 1530-437X, JUL 15 2023, vol. 23, no. 14, p. 16107-16114. Dostupné na: <https://doi.org/10.1109/JSEN.2023.3281751>, Registrované v: WOS

ADCA44

CAPONE, S.** - HOFBAUEROVÁ, Monika, Benkovičová - FORLEO, A. - JERGEL, Matej - MANERA, M.G. - ŠIFFALOVIČ, Peter - TAURINO, A. - MAJKOVÁ, Eva - SICILIANO, P. - VÁVRA, Ivo - LUBY, Štefan - RELLA, R. Palladium/gamma-Fe₂O₃ nanoparticle mixtures for acetone and NO₂ gas sensors. In Sensors and Actuators B, 2017, vol. 243, p. 895-903. (2016: 5.401 - IF, Q1 - JCR, 1.343 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0925-4005. Dostupné na: <https://doi.org/10.1016/j.snb.2016.12.027>

Citácie:

1. [1.1] KARUPPASAMY, K. - SHARMA, Ashutosh - VIKRAMAN, Dhanasekaran - LEE, Yoon-A. - SIVAKUMAR, Periyasamy - KORVINK, Jan G. - KIM, Hyun-Seok - SHARMA, Bharat. Room-temperature response of MOF-derived Pd@PdO core shell/ γ -Fe₂O₃/microcubes decorated graphitic carbon based ultrasensitive and highly selective H₂ gas sensor. In JOURNAL OF COLLOID AND INTERFACE SCIENCE, 2023, vol. 652, no., pp. 692-704. ISSN 0021-9797. Dostupné na: <https://doi.org/10.1016/j.jcis.2023.07.046>, Registrované v: WOS

2. [1.1] KUMAR, Atul - KUMAR, Anil - VARMA, G. D. Flexible humidity-tolerant γ -Fe₂O₃-rGO-based nanohybrids for energy efficient selective NO₂ gas sensing. In NEW JOURNAL OF CHEMISTRY, 2023, vol. 47, no. 10, pp. 4871-4879. ISSN 1144-0546. Dostupné na: <https://doi.org/10.1039/d2nj05771a>, Registrované v: WOS

3. [1.1] THACH, Pham Hong - KHAI, Tran Van. Thermal Evaporation Synthesis, Optical and Gas-Sensing Properties of ZnO Nanowires. In CRYSTALS, 2023, vol. 13, no. 9, pp. Dostupné na: <https://doi.org/10.3390/cryst13091380>, Registrované v: WOS

4. [1.1] WAN, Hao - HU, Linfeng - LIU, Xiaohe - ZHANG, Ying - CHEN, Gen - ZHANG, Ning - MA, Renzhi. Advanced hematite nanomaterials for newly emerging applications. In CHEMICAL SCIENCE, 2023, vol. 14, no. 11, pp. 2776-

2798. ISSN 2041-6520. Dostupné na: <https://doi.org/10.1039/d3sc00180f>,

Registrované v: WOS

ADCA45

CARIA, M. - BARBERINI, L. - CADEDDU, S. - GIANNATTASIO, A. - RUSANI, A. - SESSELEGO, A. - LAI, A. - D'AURIA, S. - DUBECKÝ, František. Gallium arsenide photodetectors for imaging in the far ultraviolet region. In *Applied Physics Letters*, 2002, vol. 81, p. 1506-1508. ISSN 0003-6951.

Citácie:

1. [1.1] AKAR, E. - DIMKOU, I. - AJAY, A. - ROBIN, E. - DEN HERTOOG, M.I. - MONROY, E. *GaN and AlGaN/AlN Nanowire Ensembles for Ultraviolet Photodetectors: Effects of Planarization with Hydrogen Silsesquioxane and Nanowire Architecture*. In *ACS APPLIED NANO MATERIALS*. JUL 13 2023, vol. 6, no. 14, p. 12792-12804. Dostupné na: <https://doi.org/10.1021/acsanm.3c01496>, Registrované v: WOS

2. [1.1] KAUSHAL, J.B. - RAUT, P. - KUMAR, S. *Organic Electronics in Biosensing: A Promising Frontier for Medical and Environmental Applications*. In *BIOSENSORS-BASEL*. NOV 2023, vol. 13, no. 11. Dostupné na: <https://doi.org/10.3390/bios13110976>, Registrované v: WOS

3. [1.1] ZHANG, C.C. - ZHANG, S.J. - DING, J.Z. - WANG, W.H. - CAO, Z.Y. - HAN, T. - LI, F. - ZHU, X.D. - SHAN, L. - LONG, M.S. *High-Sensitive and Fast Speed UV Photodetector Based on HfSe₂/InSe Heterostructure*. In *ADVANCED SENSOR RESEARCH*. ISSN 2751-1219, DEC 2023, vol. 2, no. 12. Dostupné na: <https://doi.org/10.1002/adsr.202300076>, Registrované v: WOS

4. [1.1] ZHANG, L. - LI, X.X. - TIAN, Y. - HAO, B. - HAN, J.F. - CHEN, H. - ZOU, B.S. - DU, C.H. *Ultrafast One-Step Deposition Route to Fabricate Single-Crystal CsPbX₃ (X = Cl, Cl/Br, Br, and Br/I) Photodetectors*. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, MAR 15 2023, vol. 15, no. 10, p. 13270-13280. Dostupné na: <https://doi.org/10.1021/acsam.2c19990>, Registrované v: WOS

ADCA46

CESNAK, Ladislav - KABÁT, Dušan. A cylindrical coil with graduated current density for very homogenous magnetic fields. In *Journal of Physics E : Scientific Instruments*, 1972, vol. 5, p. 944. ISSN 0022-3735.

Citácie:

1. [1.1] FILIPPIDIS, S.P. - BOUHOURLAS, A.S. - POULAKIS, N. - THEODOULIDIS, T. - CHRISTOFORIDIS, G.C. *Overview of the Electromagnetic Optimization Literature of Superconducting Solenoidal Magnets and Coils*. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, OCT 2023, vol. 33, no. 7. Dostupné na: <https://doi.org/10.1109/TASC.2023.3280822>, Registrované v: WOS

ADCA47

ČIČO, Karol - KUZMÍK, Ján - GREGUŠOVÁ, Dagmar - STOKLAS, Roman - LALINSKÝ, Tibor - GEORGAKILAS, A. - POGANY, D. - FRÖHLICH, Karol. Optimization and performance of Al₂O₃/GaN metal-oxide-semiconductor structures. In *Microelectronic Reliability*, 2007, vol. 47, p. 790-793. (2006: 0.815 - IF, Q2 - JCR, 0.692 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents).

Citácie:

1. [1.1] AKKAYA, A. - KAHVECI, O. - SAHIN, B. - AYYILDIZ, E. *Simultaneously-doping of HfO₂ thin films by Ni with sputtering technique and effect of post annealing on structural and electrical properties*. In *PHYSICA B-CONDENSED MATTER*. ISSN 0921-4526, SEP 15 2023, vol. 665. Dostupné na: <https://doi.org/10.1016/j.physb.2023.415034>, Registrované v: WOS

ADCA48

ČIČO, Karol - JANČOVIČ, Peter - DÉRER, Ján - ŠMATKO, Vasilij - ROSOVÁ, Alica - BLAHO, Michal - HUDEEC, Boris - GREGUŠOVÁ, Dagmar - FRÖHLICH, Karol. Resistive switching in nonplanar HfO₂-based structures with variable series

resistance. In Journal of Vacuum Science and Technology B: Microelectronics and Nanometer Structures, 2015, vol. 33, 01A108. (2014: 1.464 - IF, Q2 - JCR, 0.509 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1071-1023. Dostupné na: <https://doi.org/10.1116/1.4905727>

Citácie:

1. [1.1] YAN, J.Q. - SONG, H.J. - ZHONG, X.L. - WANG, J.B. - GUO, H.X. - OUYANG, X.P. *Effect of Proton Irradiation Fluence on the Linearity and Symmetry of Conductance Tuning of a HfOx/TiOx Heterojunction-Based Memristor. In IEEE TRANSACTIONS ON NUCLEAR SCIENCE. ISSN 0018-9499, MAY 2023, vol. 70, no. 5, p. 807-814. Dostupné na:*

<https://doi.org/10.1109/TNS.2023.3267606>, Registrované v: WOS

ADCA49

DADHICH, Anang - PARDO, Enric**. Modeling cross-field demagnetization of superconducting stacks and bulks for up to 100 tapes and 2 million cycles. In Scientific Reports, 2020, vol. 10, no. 19265. (2019: 3.998 - IF, Q1 - JCR, 1.341 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-020-76221-z> (H2020 ASuMED. APVV 19-0536. VEGA 2/0097/18)

Citácie:

1. [1.1] WANG, Q. - ZHANG, H.Y. - HAO, L.N. - HU, J.T. - WEI, H.G.N. - PATEL, I. - SHAH, A.D. - COOMBS, T. *Magnetisation and demagnetisation of trapped field stacks in a superconducting machine for electric aircraft. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acfcdf>, Registrované v: WOS*

ADCA50

DADHICH, Anang - PARDO, Enric** - KAPOLKA, Milan. Time constant of the transverse-field demagnetization of superconducting stacks of tapes. In Superconductor Science and Technology, 2020, vol. 33, no. 6, no. 065003. (2019: 3.067 - IF, Q2 - JCR, 0.991 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ab877b> (VEGA 2/0097/18. H2020 ASuMED)

Citácie:

1. [1.1] ZHONG, Z.Y. - WU, W. - LU, L. - SHEN, B.Y. - DONG, F.L. - WANG, L.B. - HONG, Z.Y. - JIN, Z.J. *Time-variant magnetic field, voltage, and loss of no-insulation (NI) HTS magnet induced by dynamic resistance generation from external AC fields. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, MAY 1 2023, vol. 36, no. 5. Dostupné na:*

<https://doi.org/10.1088/1361-6668/acbd6b>, Registrované v: WOS

ADCA51

DANILEWSKY, A. - WITTGE, J. - CRÖLL, A. - ALLEN, David - MCNALLY, P. - VAGOVIČ, Patrik - DOS SANTOS ROLO, T. - LI, Z.J. - BAUMBACH, T. - GOROSTEGUI-COLINAS, E. - GARAGORRI, J. - ELIZELDE, M.R. - FOSSATI, M.C. - BOWEN, D.K. - TANNER, B.K. Dislocation dynamics and slip band formation in silicon: In-situ study by X-ray diffraction imaging. In Journal of Crystal Growth, 2011, vol. 318, p. 1157-1163. (2010: 1.746 - IF, Q2 - JCR, 1.157 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, WOS, SCOPUS). ISSN 0022-0248. Dostupné na: <https://doi.org/10.1016/j.jcrysgro.2010.10.199>

Citácie:

1. [1.1] CHUKHOVSKII, F.N. - KONAREV, P.V. - VOLKOV, V.V. *Denoising of the Poisson-Noise Statistics 2D Image Patterns in the Computer X-ray Diffraction Tomography. In CRYSTALS. APR 2023, vol. 13, no. 4. Dostupné na:*

<https://doi.org/10.3390/cryst13040561>, Registrované v: WOS

2. [1.1] HUANG, N. - ZHOU, P. - GOEL, S. *Microscopic stress analysis of nanoscratch induced sub-surface defects in a single-crystal silicon wafer. In*

PRECISION ENGINEERING-JOURNAL OF THE INTERNATIONAL SOCIETIES FOR PRECISION ENGINEERING AND NANOTECHNOLOGY. ISSN 0141-6359, JUL 2023, vol. 82, p. 290-303. Dostupné na:

https://doi.org/10.1016/j.precisioneng.2023.04.006, Registrované v: WOS 3. [1.1] WANG, Z.H. - LEONG, A.F.T. - DRAGONE, A. - GLEASON, A.E. - BALLABRIGA, R. - CAMPBELL, C. - CAMPBELL, M. - CLARK, S.J. - DA VIÀ, C. - DATTELBAUM, D.M. - DEMARTEAU, M. - FABRIS, L. - FEZZAA, K. - FOSSUM, E.R. - GRUNER, S.M. - HUFNAGEL, T.C. - JU, X.L. - LI, K. - LLOPART, X. - LUKIC, B. - RACK, A. - STREHLOW, J. - THERRIEN, A.C. - THOM-LEVY, J. - WANG, F.X. - XIAO, T.Q. - XU, M.W. - YUE, X. Ultrafast radiographic imaging and tracking: An overview of instruments, methods, data, and applications. In NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. ISSN 0168-9002, DEC 2023, vol. 1057.

ADCA52 Dostupné na: *https://doi.org/10.1016/j.nima.2023.168690, Registrované v: WOS*
DEMENČÍK, Eduard - VOJENČIAK, Michal - KARIO, A. - NAST, R. - JUNG, A. - GOLDACKER, W. - GRILLI, F. AC loss and coupling currents in YBCO coated conductors with varying number of filaments. In IEEE Transactions on Applied Superconductivity, 2014, vol. 24, 6601008. (2013: 1.324 - IF, Q2 - JCR, 0.431 - SJR, Q2 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1051-8223. Dostupné na: *https://doi.org/10.1109/TASC.2014.2338320*

Citácie:

1. [1.1] SHIGEMASA, M. - SOGABE, Y. - TAKAHASHI, A. - AMEMIYA, N. Impact of Number of Layers on Magnetization Losses of Spiral Copper-Plated Multifilament Coated Conductors. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: *https://doi.org/10.1109/TASC.2023.3266420, Registrované v: WOS*

ADCA53 Dostupné na: *https://doi.org/10.1109/TASC.2023.3266420, Registrované v: WOS*
DEMENČÍK, Eduard - GRILLI, F. - KARIO, A. - NAST, R. - JUNG, A. - VOJENČIAK, Michal - SCHEITER, J. - GOLDACKER, W. AC magnetization loss and transverse resistivity of striated YBCO coated conductors. In IEEE Transactions on Applied Superconductivity, 2015, vol. 25, 8201405. (2014: 1.235 - IF, Q3 - JCR, 0.478 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1051-8223. Dostupné na: *https://doi.org/10.1109/TASC.2014.2381561*

Citácie:

1. [1.1] PEKARČIKOVÁ, M. - FROLEK, L. - NECPAL, M. - CUNINKOVÁ, E. - SKARBA, M. - HULACOVÁ, S. - FERENCIK, F. - BOCÁKOVÁ, B. Optimization of REBCO Tapes through Division and Striation for Use in Superconducting Cables with Low AC Losses. In MATERIALS. DEC 2023, vol. 16, no. 23. Dostupné na: *https://doi.org/10.3390/ma16237333, Registrované v: WOS*

2. [1.1] SHIGEMASA, M. - SOGABE, Y. - TAKAHASHI, A. - AMEMIYA, N. Impact of Number of Layers on Magnetization Losses of Spiral Copper-Plated Multifilament Coated Conductors. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: *https://doi.org/10.1109/TASC.2023.3266420, Registrované v: WOS*

3. [1.1] SKARBA, M. - PEKARČIKOVÁ, M. - FROLEK, L. - CUNINKOVÁ, E. - NECPAL, M. - SIMON, S. Striating of REBCO-Coated Conductors for AC Loss Reduction. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, DEC 2023, vol. 33, no. 9. Dostupné na:

https://doi.org/10.1109/TASC.2023.3327966, Registrované v: WOS

ADCA54 DERIAN, René - GENDIAR, Andrej - NISHINO, T. Modulation of local magnetization in two-dimensional axial-next-nearest-neighbor model. In Journal of Physical Society of Japan, 2006, vol. 75, p. 114001, also condmat 0605411.

Dostupné na: <https://doi.org/10.1143/JPSJ.75.114001>

Citácie:

1. [1.2] HONG, Hao - TONG, Weiqin - LIU, Xiaoping - ZHANG, Tao - LIU, Xiao Yang. High Performance Single-Site Finite DMRG on GPUs. In CAIBDA 2022 2nd International Conference on Artificial Intelligence, Big Data and Algorithms, 2022-01-01, pp. 943-947., Registrované v: SCOPUS

ADCA55

DHALLÉ, M. - VAN WEEREN, H. - WESSEL, S. - DEN OUDEN, A. - TEN KATE, H.H. - HUŠEK, Imrich - KOVÁČ, Pavol - SCHLACHTER, S. - GOLDACKER, W. Scaling the reversible strain response of MgB₂ conductors. In Superconductor Science and Technology, 2005, vol. 18, p. S253-S260. (2004: 1.556 - IF, karentované - CCC). (2005 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] LIU, X. - SHI, Y. - LIU, F. - MA, H.J. - LIU, H.J. - ZHOU, C. - SONG, Y.T. - GAO, J. - ZHU, Y.C. - ZHANG, X.P. - WANG, D.L. - MA, Y.W. - ZHANG, Z. - WEI, S.Q. - QIN, J.G. Critical current degradation behavior of 7-filamentary Ba_{1-x}K_xFe₂As₂ tapes under uniaxial strain. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, JAN 1 2023, vol. 36, no. 1.

Dostupné na: <https://doi.org/10.1088/1361-6668/aca4a7>, Registrované v: WOS

ADCA56

DIANTORO, M. - LOEKSMANTO, W. - TJIA, M.O. - GÖMÖRY, Fedor - ŠOUC, Ján - HUŠEK, Imrich - KOVÁČ, Pavol. AC loss and critical current density in Bi-2223 tapes with oxide additives and reinforced. In Physica C, 2002, vol. 372-376, p. 1143-1147. (2001: 0.806 - IF, karentované - CCC). (2002 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.

Citácie:

1. [1.1] BIRTANE, H. - ÇIGIL, A.B. - MADAKBAS, S. - ESMER, K. - KAHRAMAN, M.V. Thermal and dielectric properties of flexible polyimide nanocomposites with functionalized nanodiamond and silver nanoparticles. In POLYMER BULLETIN. ISSN 0170-0839, MAY 2023, vol. 80, no. 5, p. 5353-5371.

Dostupné na: <https://doi.org/10.1007/s00289-022-04336-6>, Registrované v: WOS

ADCA57

DOBROČKA, Edmund - VÁVRA, Ivo - WALLENBERG, L.R. Simulation of electron diffraction patterns from III-V alloys with CuPt ordering: Effect of clusters and antiphase boundaries. In Journal of Applied Physics, 2001, vol. 89, no. 5, p. 2653-2665. (2001 - Current Contents, SCOPUS). ISSN 0021-8979.

Citácie:

1. [1.1] LIU, H.Y. - WU, J.Y. Tunable Electronic Properties of Two-Dimensional GaSe_{1-x}Te_x Alloys. In NANOMATERIALS. MAR 2023, vol. 13, no. 5. Dostupné na: <https://doi.org/10.3390/nano13050818>, Registrované v: WOS

ADCA58

DOBROČKA, Edmund - OSVALD, Jozef. Influence of barrier height distribution on the parameters of Schottky diodes. In Applied Physics Letters, 1994, vol. 65, p. 575.

Citácie:

1. [1.1] AHMED, M.A.M. - MEYER, W.E. - NEL, J.M. Investigation of the structural and temperature-dependent electrical properties of MZnO (M = Ce and Sm) Schottky diode devices fabricated using the sol-gel spin-coating technique. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. ISSN 0957-4522, JUN 2023, vol. 34, no. 16. Dostupné na:

<https://doi.org/10.1007/s10854-023-10621-5>, Registrované v: WOS

2. [1.1] BENGI, S. - YÜKSEL TÜRK, E. - BÜLBÜL, M.M. Investigation of electrical characterization of Al/HfO₂/p-Si structures in wide temperature range. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. ISSN 0957-4522, JAN 2023, vol. 34, no. 3. Dostupné na:

<https://doi.org/10.1007/s10854-022-09613-8>, Registrované v: WOS

3. [1.1] *TORKHOV, N.A. - NOMOEV, A.V. The conductivity and electrophysical characteristics of Janus-like TaSi₂/Si nanoparticles. In SEMICONDUCTOR SCIENCE AND TECHNOLOGY. ISSN 0268-1242, JAN 1 2023, vol. 38, no. 1. Dostupné na: <https://doi.org/10.1088/1361-6641/aca7dc>, Registrované v: WOS*
4. [1.2] *JEONG, Woo Il - MAENG, Jin Young - SONG, Jong Hyun. Current-Voltage Characteristics of n-type Doped TiO₂/In₂S₃ Thin Films Deposited on p-Si Substrates. In New Physics: Sae Mulli, 2023-04-01, 73, 4, pp. 317-323. ISSN 03744914. Dostupné na: <https://doi.org/10.3938/NPSM.73.317>, Registrované v: SCOPUS*

ADCA59 DOBROČKA, Edmund - NOVÁK, P. - BÚC, D. - HARMATHA, L. - MURÍN, J. X-ray diffraction analysis of residual stresses in textured ZnO thin films. In Applied Surface Science, 2017, vol. 395, p. 16-23. (2016: 3.387 - IF, Q1 - JCR, 0.958 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2016.06.060>

Citácie:

1. [1.1] *CAO, H.X. - YAO, C.B. - LI, H.Y. - SHI, B.Y. - ZHENG, X.Y. - LIU, Y. - YIN, H.T. Band gap and interface engineering of ZnO@MoSe₂ heterojunction film and its light-matter coupling. In OPTICAL MATERIALS. ISSN 0925-3467, FEB 2023, vol. 136. Dostupné na: <https://doi.org/10.1016/j.optmat.2022.113410>, Registrované v: WOS*
2. [1.1] *LI, P.X. - YAN, Y.T. - BA, J. - WANG, P.C. - WANG, H.H. - WANG, X.X. - LIN, J.H. - CAO, J. - QI, J.L. The regulation strategy for releasing residual stress in ceramic-metal brazed joints. In JOURNAL OF MANUFACTURING PROCESSES. ISSN 1526-6125, JAN 6 2023, vol. 85, p. 935-947. Dostupné na: <https://doi.org/10.1016/j.jmapro.2022.12.022>, Registrované v: WOS*
3. [1.1] *YANG, H.T. - LIU, M. - ZHU, Y.M. - WANG, W.D. - QIN, X.M. - HE, L.L. - JIANG, K.Y. Characterization of Residual Stress in SOI Wafers by Using MEMS Cantilever Beams. In MICROMACHINES. AUG 2023, vol. 14, no. 8. Dostupné na: <https://doi.org/10.3390/mi14081510>, Registrované v: WOS*
4. [1.1] *ZHANG, C.Y. - CHEN, S.Y. - XIE, L.G. - YANG, E.C. - BU, T. - CHEUNG, I. - JEAN, M.D. Multi-objective Optimization of Laser Welds with Mixed WC/Co/Ni Experiments Using Simplex-centroid Design. In MATERIALS SCIENCE-MEDZIAGOTYRA. ISSN 1392-1320, 2023, vol. 29, no. 4, p. 445-455. Dostupné na: <https://doi.org/10.5755/j02.ms.33626>, Registrované v: WOS*

ADCA60 DOBROČKA, Edmund** - ŠPANKOVÁ, Marianna - SOJKOVÁ, Michaela - CHROMIK, Štefan. Texture of YBCO layer grown on GaN/c-sapphire substrates. In Applied Surface Science, 2021, vol. 543, no. 148718. (2020: 6.707 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2020.148718>

Citácie:

1. [1.1] *KARTHIKEYAN, M. - WATCHARAPASORN, A. - CHANDA, G. - CHAIPISAN, K. - LI, Z.J. Enhanced dual superconducting and ferromagnetic properties of YBCO film tuned with boron and oxygen partial pressures. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, DEC 25 2023, vol. 969. Dostupné na: <https://doi.org/10.1016/j.jallcom.2023.172230>, Registrované v: WOS*

ADCA61 DOBROČKA, Edmund - GUCMANN, Filip - HUŠEKOVÁ, Kristína - NÁDAŽDY, Peter - HRUBIŠÁK, Fedor - EGYENES, Fridrich - ROSOVÁ, Alica - MIKOLÁŠEK, M. - ĎAPAJNA, Milan**. Structure and thermal stability of ε/κ-Ga₂O₃ films deposited by liquid-injection MOCVD. In Materials, 2023, vol. 16, no. 20. (2022: 3.4 - IF, Q2 - JCR, 0.563 - SJR, Q2 - SJR). ISSN 1996-1944. Dostupné

na: <https://doi.org/10.3390/ma16010020>

Citácie:

1. [1.1] AARIK, L. - MÄNDAR, H. - KOZLOVA, J. - TARRE, A. - AARIK, J. Atomic Layer Deposition of Ga₂O₃ from GaI₃ and O₃: Growth of High-Density Phases. In CRYSTAL GROWTH & DESIGN. ISSN 1528-7483, JUL 13 2023, vol. 23, no. 8, p. 5899-5911. Dostupné na: <https://doi.org/10.1021/acs.cgd.3c00502>, Registrované v: WOS

2. [1.1] GIROLAMI, M. - BOSI, M. - SERPENTE, V. - MASTELLONE, M. - SERAVALLI, L. - PETTINATO, S. - SALVATORI, S. - TRUCCHI, D.M. - FORNARI, R. Orthorhombic undoped κ-Ga₂O₃ epitaxial thin films for sensitive, fast, and stable direct X-ray detectors. In JOURNAL OF MATERIALS CHEMISTRY C. ISSN 2050-7526, MAR 16 2023, vol. 11, no. 11, p. 3759-3769. Dostupné na: <https://doi.org/10.1039/d2tc05297k>, Registrované v: WOS

ADCA62

DONOVAL, D. - CHVÁLA, A. - ŠRAMATÝ, R. - KOVÁČ, Ján - MORVAN, E. - DUA, C. - DI FORTE POISSON, M.A. - KORDOŠ, Peter. Transport properties and barrier height evaluation in Ni/InAlN/GaN Schottky diodes. In Journal of Applied Physics, 2011, vol. 109, 063711. (2010: 2.079 - IF, Q2 - JCR, 1.484 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/1.3560919>

Citácie:

1. [1.1] SHABAN, H. - MAHDY, M.A. - MOUSTAFA, S.H. - EL ZAWAWI, I.K. Influence of substrate temperature on the structural, optical properties, and I-V characteristics of n-AgInSe₂/p-Si heterojunctions. In MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS. ISSN 0921-5107, DEC 2023, vol. 298. Dostupné na: <https://doi.org/10.1016/j.mseb.2023.116853>, Registrované v: WOS

ADCA63

DRIENOVSKÝ, M.** - MICHALCOVÁ, E. - PEKARČIKOVÁ, M. - PALCUT, M. - FROLEK, Lubomír - GOGOLA, P. - JANČUŠKA, I. - MIŠÍK, J. - GÖMÖRY, Fedor. Induction soldering of coated conductor high-temperature superconducting tapes with lead-free solder alloys. In IEEE Transactions on Applied Superconductivity, 2018, vol. 28, no. 6601305. (2017: 1.288 - IF, Q3 - JCR, 0.408 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2018.2805102>

Citácie:

1. [1.1] DUMITRU, G. - MOREGA, A.M. - DOBRIN, I. - ENACHE, D. - DUMITRU, C. THE DESIGN OF THE POWER SUPPLY CURRENT LEADS TO A HIGH-TEMPERATURE SUPERCONDUCTING ELECTROMAGNET. In REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE. ISSN 0035-4066, OCT-DEC 2023, vol. 68, no. 4, p. 431-435. Dostupné na: <https://doi.org/10.59277/RRST-EE.2023.68.4.18>, Registrované v: WOS

2. [1.1] NISAY, A.R. - SHIN, H.S. Performance characteristics of REBCO coated conductor joints fabricated by flux-free hybrid welding. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, DEC 1 2023, vol. 36, no. 12. Dostupné na: <https://doi.org/10.1088/1361-6668/ad0793>, Registrované v: WOS

3. [1.1] TANAKA, Y. - INOUE, M. - IWAKUMA, M. Current Transport Characteristics for REBCO Tape in High Electric Field. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3270841>, Registrované v: WOS

ADCA64

DRUGA, J. - KAŠIAROVÁ, Monika - DOBROČKA, Edmund - ZEMANOVÁ, Mária. Corrosion and tribological properties of nanocrystalline pulse

electrodeposited Ni-W alloy coatings. In Transactions of the Institute of Metal Finishing, 2017, vol. 95, p. 39-45. (2016: 0.802 - IF, Q3 - JCR, 0.306 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0020-2967. Dostupné na: <https://doi.org/10.1080/00202967.2017.1262117>

Citácie:

1. [1.1] XU, Y.J. - WANG, D.Y. - SHENG, M.Q. - WANG, H.H. Internal stress of high tungsten content Ni-W alloy coatings. In SURFACE ENGINEERING. ISSN 0267-0844, JUN 3 2023, vol. 39, no. 6, p. 769-779. Dostupné na:

<https://doi.org/10.1080/02670844.2023.2257855>, Registrované v: WOS

ADCA65

DUBECKÝ, František - KINDL, D. - HUBÍK, P. - MIČUŠÍK, Matej - DUBECKÝ, Matúš - BOHÁČEK, Pavol - VANKO, Gabriel - GOMBIA, E. - NEČAS, V. - MUDROŇ, J. A comparative study of Mg and Pt contacts on semi-insulating GaAs: electrical and XPS characterization. In Applied Surface Science, 2017, vol. 395, p. 131-135. (2016: 3.387 - IF, Q1 - JCR, 0.958 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0169-4332. Dostupné na:

<https://doi.org/10.1016/j.apsusc.2016.04.176>

Citácie:

1. [1.1] ISLAM, A. - TEO, S.H. - ISLAM, M.T. - AHAMED, E. - ISLAM, M.S. - ALSULTAN, A.G. - MARWANI, H.M. - RAHMAN, M.M. - ASIRI, A.M. - TAUFIQ-YAP, Y.H. - AWUAL, M.R. Boosting biodiesel production over silicon heterojunction with visible light irradiation. In ENERGY CONVERSION AND MANAGEMENT. ISSN 0196-8904, SEP 15 2023, vol. 292. Dostupné na:

<https://doi.org/10.1016/j.enconman.2023.117435>, Registrované v: WOS

2. [1.1] YANG, Y.X. - YANG, X.H. - LIU, K. - HUANG, J. - SUN, Y. - LI, X. - HU, L. - LIU, W.H. - HAN, C.Y. - WANG, X.L. Pd/Ge/Ti/Pt/Au Metal Stack on Semi-Insulating Gallium Arsenide: Ohmic Contact and Temperature Dependence. In IEEE TRANSACTIONS ON ELECTRON DEVICES. ISSN 0018-9383, SEP 2023, vol. 70, no. 9, p. 4604-4611. Dostupné na:

<https://doi.org/10.1109/TED.2023.3298594>, Registrované v: WOS

3. [1.1] YE, Y.S. - MOHAMED, M.G. - CHEN, W.C. - KUO, S.W. Integrating the multiple functionalities in metalloporphyrin porous organic polymers enabling strong polysulfide anchoring and rapid electrochemical kinetics in Li-S batteries. In JOURNAL OF MATERIALS CHEMISTRY A. ISSN 2050-7488, APR 25 2023, vol. 11, no. 16, p. 9112-9124. Dostupné na: <https://doi.org/10.1039/d2ta09232h>, Registrované v: WOS

ADCA66

DUBECKÝ, František - GOMBIA, E. - FERRARI, C. - ZAŤKO, Bohumír - VANKO, Gabriel - BALDINI, M. - KOVÁČ, Jaroslav - BAČEK, D. - KOVÁČ, P. - HRKÚT, Pavol - NEČAS, V. Characterization of epitaxial 4H-SiC for photon detectors. In Journal of Instrumentation, 2012, vol. 7, p09005. (2011: 1.869 - IF, Q1 - JCR, 1.126 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 1748-0221. Dostupné na: <https://doi.org/10.1088/1748-0221/7/09/P09005>

Citácie:

1. [1.1] OU, Haiyan - SHI, Xiaodong - LU, Yaoqin - KOLLMUSS, Manuel - STEINER, Johannes - TABOURET, Vincent - SYVAJARVI, Mikael - WELLMANN, Peter - CHAUSSSENDE, Didier. Novel Photonic Applications of Silicon Carbide. In MATERIALS, 2023, vol. 16, no. 3, pp. Dostupné na:

<https://doi.org/10.3390/ma16031014>, Registrované v: WOS

ADCA67

DVUREČENSKIJ, Andrej - CIGÁŇ, Alexander - LOBOTKA, Peter - RADNÓCZI, G. - ŠKRÁTEK, Martin - BENYÓ, J. - KOVÁČOVÁ, Eva - MAJEROVÁ, Melinda - MAŇKA, Ján**. Colloids of HEA nanoparticles in an imidazolium-based ionic liquid prepared by magnetron sputtering: Structural and magnetic properties. In

Journal of Alloys and Compounds, 2022, vol. 896, art. no. 163089. (2021: 6.371 - IF, Q1 - JCR, 0.667 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na:

<https://doi.org/10.1016/j.jallcom.2021.163089> (VEGA 2/0059/21. VEGA č. 2/0141/21 : SQUID magnetometry of nano- and microparticles, nanocolloids and nanostructures in new applications in the field of biomedicine and materials research associated with the development of new measurement methods and procedures)

Citácie:

1. [3.1] HINUMA, Y. – MORI, K. *CO₂ adsorption on the (111) surface of fcc-structure high entropy alloys. In SCIENCE AND TECHNOLOGY OF ADVANCED MATERIALS: METHODS. ISSN 2766-0400, 2023, vol. 3, no. 1. Dostupné na: <https://doi.org/10.1080/27660400.2022.2161807>*

ADCA68

DZUBA, Jaroslav - VANKO, Gabriel - DRŽÍK, Milan - RÝGER, Ivan - KUTIŠ, V. - ZEHETNER, J. - LALINSKÝ, Tibor. AlGaIn/GaN diaphragm-based pressure sensor with direct high performance piezoelectric transduction mechanism. In Applied Physics Letters, 2015, vol. 107, 122102. (2014: 3.302 - IF, Q1 - JCR, 1.861 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/1.4931436>

Citácie:

1. [1.1] JIANG, J. - CHEN, Q.Q. - HU, S.D. - SHI, Y.J. - HE, Z.Y. - HUANG, Y. - HUI, C.X. - CHEN, Y.Q. - WU, H. - LU, G.G. *Effect of Electro-Thermo-Mechanical Coupling Stress on Top-Cooled E-Mode AlGaIn/GaN HEMT. In MATERIALS. FEB 2023, vol. 16, no. 4. Dostupné na: <https://doi.org/10.3390/ma16041484>, Registrované v: WOS*

2. [1.1] KUMAR, A. - VARGHESE, A. - SHARMA, G. - KUMAR, M. - SHARMA, G.K. - PRASAD, M. - JANYANI, V. - YADAV, R.P. - ELGAID, K. *Optimization and fabrication of MEMS based piezoelectric acoustic sensor for wide frequency range and high SPL acoustic application. In MICRO AND NANOSTRUCTURES. JUL 2023, vol. 179. Dostupné na: <https://doi.org/10.1016/j.micrna.2023.207592>, Registrované v: WOS*

3. [1.1] TAKEDA, H. - UEHARA, T. - HIRANO, G. - KODAMA, S. - YANASE, I. - SUGIYAMA, K. *Effect of strontium substitution on growth and piezoelectric properties of calcium magnesium silicate Ca₂MgSi₂O₇ single crystals. In JAPANESE JOURNAL OF APPLIED PHYSICS. ISSN 0021-4922, NOV 1 2023, vol. 62, no. SM. Dostupné na: <https://doi.org/10.35848/1347-4065/acf2a5>, Registrované v: WOS*

ADCA69

EGYENES, Fridrich - GUCMANN, Filip - HUŠEKOVÁ, Kristína - DOBROČKA, Edmund - SOBOTA, M. - MIKOLÁŠEK, M. - FRÖHLICH, Karol - ŤAPAJNA, Milan**. Growth of α - and β -Ga₂O₃ epitaxial layers on sapphire substrates using liquid-injection MOCVD. In Semiconductor Science and Technology, 2020, vol. 35, no. 115002. (2019: 2.361 - IF, Q2 - JCR, 0.790 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0268-1242. Dostupné na: <https://doi.org/10.1088/1361-6641/ababdc>

Citácie:

1. [1.1] JEWEL, M.U. - HASAN, S. - CRITTENDEN, S.R. - AVRUTIN, V. - ÖZGÜE, Ü - MORKOÇ, H. - AHMAD, I. *Phase Stabilized MOCVD Growth of β -Ga₂O₃ Using SiO_x on c-Plane Sapphire and AlN/Sapphire Template. In PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE. ISSN 1862-6300, JUN 2023, vol. 220, no. 11. Dostupné na: <https://doi.org/10.1002/pssa.202300036>, Registrované v: WOS*

2. [1.1] LIU, Z. - TANG, W.H. *A review of Ga₂O₃ deep-ultraviolet metal-semiconductor Schottky photodiodes. In JOURNAL OF PHYSICS D-APPLIED*

PHYSICS. ISSN 0022-3727, MAR 2 2023, vol. 56, no. 9. Dostupné na: <https://doi.org/10.1088/1361-6463/acb6a5>, Registrované v: WOS
3. [1.2] Jewel M.U., Hasan, S., Crittenden, S.R., Avrutin, V., Özgür, Ü., Morkoç, H., Ahmad, I.: *Demonstration of thick phase-pure β -Ga₂O₃ on a c-plane sapphire substrate using MOCVD In Proceedings of SPIE Volume 124222023 Article number 1242204, Registrované v: SCOPUS*

ADCA70

FAGNARD, J.F.** - VANDERHEYDEN, B. - PARDO, Enric - VANDERBEMDEN, P. Magnetic shielding of various geometries of bulk semi-closed superconducting cylinders subjected to axial and transverse fields. In *Superconductor Science and Technology*, 2019, vol. 32, no. 074007. (2018: 2.489 - IF, Q2 - JCR, 0.879 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ab1824> (VEGA 2/0097/18)

Citácie:

1. [1.1] NOJIMA, S. - NAGASAKI, Y. - TSUDA, M. *A Suitable Magnetic Field Source Composed of an HTS Coil and HTS Bulks for Magnetic Drug Delivery System. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na:*

<https://doi.org/10.1109/TASC.2023.3244504>, Registrované v: WOS

ADCA71

FEILHAUER, Juraj - APEL, W. - SCHWEITZER, L. Merging of the Dirac points in electronic artificial graphene. In *Physical Review B*, 2015, vol. 92, 245424. (2014: 3.736 - IF, Q1 - JCR, 0.123 - SJR, Q4 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.92.245424>

Citácie:

1. [1.1] OKA, R. - OHARA, K. - KONISHI, K. - YAMANE, I. - SHIMADA, T. - NAITO, T. *Band Structure Evolution during Reversible Interconversion between Dirac and Standard Fermions in Organic Charge-Transfer Salts. In MAGNETOCHEMISTRY. JUN 2023, vol. 9, no. 6. Dostupné na:*

<https://doi.org/10.3390/magnetochemistry9060153>, Registrované v: WOS

2. [1.1] PENG, D.Y. - CHEN, H.K. - CHEN, T.L. - DANZENGLUOBU - LIU, M.Y. - CUI, S.W. - LI, B.B. - XIAO, D.X. - YANG, F. - ZHANG, L.W. - MA, X.H. - GAO, W. - YIN, L.Q. - STENKIN, Y.V. - SHCHEGOLEV, O.B. - KULESHOV, D.A. - KURINOV, K.O. - LIU, Y. - LIU, H. *Progress of Electron-Neutron Detector Array (ENDA). In PHYSICS OF ATOMIC NUCLEI. ISSN 1063-7788, DEC 2023, vol. 86, no. 6, p. 1056-1062. Dostupné na:*

<https://doi.org/10.1134/S1063778824010423>, Registrované v: WOS

3. [1.1] SUN, H. - BHOWMICK, D. - YANG, B. - SENGUPTA, P. *Interacting topological Dirac magnons. In PHYSICAL REVIEW B. ISSN 2469-9950, APR 20 2023, vol. 107, no. 13. Dostupné na:*

<https://doi.org/10.1103/PhysRevB.107.134426>, Registrované v: WOS

ADCA72

FEILHAUER, Juraj - MOŠKO, Martin. Quantum and Boltzmann transport in a quasi-one-dimensional wire with rough edges. In *Physical Review B*, 2011, vol. 83, 245328. (2010: 3.774 - IF, Q1 - JCR, 3.318 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.83.245328>

Citácie:

1. [1.1] BAHRAMI, B. - KIAMEHR, Z. - SHARAFI, B. - GOODARZI, M. *Investigating the effects of impurity on electron mobility in quasi-one-dimensional wires. In MODERN PHYSICS LETTERS B. ISSN 0217-9849, SEP 30 2023, vol. 37, no. 27. Dostupné na: <https://doi.org/10.1142/S0217984923501051>, Registrované v: WOS*

- ADCA73 FEILHAUER, Juraj - MOŠKO, Martin. Conductance and persistent current in quasi-one-dimensional systems with grain boundaries: Effects of the strongly reflecting and columnar grains. In *Physical Review B*, 2011, vol. 84, art. no. 085454. (2010: 3.774 - IF, Q1 - JCR, 3.318 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.84.085454>
- Citácie:
- [1.1] *DING, Y.J. - XIAO, Y. Nonperturbative approach to magnetic response of an isolated nanoring in a strongly anharmonic confinement. In SCIENTIFIC REPORTS. ISSN 2045-2322, APR 17 2023, vol. 13, no. 1. Dostupné na: <https://doi.org/10.1038/s41598-023-33544-x>, Registrované v: WOS*
- ADCA74 FEILHAUER, Juraj** - SCHUMER, A. - DOPPLER, J. - MAILYBAEV, A.A. - BOHM, J. - KÜHL, Uwe - MOISEYEV, N. - ROTTER, S. Encircling exceptional points as a non-Hermitian extension of rapid adiabatic passage. In *Physical Review A*, 2020, vol. 102, no. 040201. (2019: 2.777 - IF, Q2 - JCR, 1.416 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.102.040201> (VEGA 2/0162/18)
- Citácie:
- [1.1] *CHANDA, N. - PATNAIK, P. - BHATTACHARYYA, R. Optimal population transfer using adiabatic rapid passage in the presence of drive-induced dissipation. In PHYSICAL REVIEW A. ISSN 2469-9926, JUN 23 2023, vol. 107, no. 6. Dostupné na: <https://doi.org/10.1103/PhysRevA.107.063708>, Registrované v: WOS*
 - [1.1] *DEY, S. - GHOSH, S. Exploring anomalous light dynamics around higher-order conjugate exceptional points with local nonlinearity. In PHYSICAL REVIEW A. ISSN 2469-9926, AUG 10 2023, vol. 108, no. 2. Dostupné na: <https://doi.org/10.1103/PhysRevA.108.023508>, Registrované v: WOS*
 - [1.1] *ZHANG, Q.C. - ZHAO, L.K. - LIU, X. - FENG, X.L. - XIONG, L.W. - WU, W.Q. - QIU, C.Y. Experimental characterization of three-band braid relations in non-Hermitian acoustic lattices. In PHYSICAL REVIEW RESEARCH. JUN 5 2023, vol. 5, no. 2. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.5.L022050>, Registrované v: WOS*
- ADCA75 FEILHAUER, Juraj** - SAHA, S. - TÓBIK, Jaroslav - ZEHETMAYER, M. - HEYDERMAN, L.J. - MRUCZKIEWICZ, Michal**. Controlled motion of skyrmions in a magnetic antidot lattice. In *Physical Review B*, 2020, vol. 102, no. 184425. (2019: 3.575 - IF, Q2 - JCR, 1.811 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.102.184425>
- Citácie:
- [1.1] *PANIZON, E. - SILVA, A. - CAO, X. - WANG, J. - BECHINGER, C. - VANOSSI, A. - TOSATTI, E. - MANINI, N. Frictionless nanohighways on crystalline surfaces. In NANOSCALE. ISSN 2040-3364, JAN 19 2023, vol. 15, no. 3, p. 1299-1316. Dostupné na: <https://doi.org/10.1039/d2nr04532j>, Registrované v: WOS*
 - [1.1] *SALINAS, R.I. - CHEN, P.C. - YANG, C.Y. - LAI, C.H. Spintronic materials and devices towards an artificial neural network: accomplishments and the last mile. In MATERIALS RESEARCH LETTERS. ISSN 2166-3831, MAY 4 2023, vol. 11, no. 5, p. 305-326. Dostupné na: <https://doi.org/10.1080/21663831.2022.2147803>, Registrované v: WOS*
 - [1.1] *SIVASUBRAMANI, S. - PAIKARAY, B. - KUCHIBHOTLA, M. - HALDAR, A. - MURAPAKA, C. - ACHARYYA, A. Skyrmion based 3D low complex runtime reconfigurable architecture design methodology of universal*

logic gate. In *NANOTECHNOLOGY*. ISSN 0957-4484, MAR 26 2023, vol. 34, no. 13. Dostupné na: <https://doi.org/10.1088/1361-6528/acaf32>, Registrované v: WOS

4. [1.1] SOUZA, J.C.B. - VIZARIM, N.P. - REICHHARDT, C.J.O. - REICHHARDT, C. - VENEGAS, P.A. Soliton motion induced along ferromagnetic skyrmion chains in chiral thin nanotracks. In *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*. ISSN 0304-8853, DEC 1 2023, vol. 587. Dostupné na: <https://doi.org/10.1016/j.jmmm.2023.171280>, Registrované v: WOS

5. [1.1] SOUZA, J.C.B. - VIZARIM, N.P. - REICHHARDT, C.J.O. - REICHHARDT, C. - VENEGAS, P.A. Spontaneous skyrmion conformal lattice and transverse motion during dc and ac compression. In *NEW JOURNAL OF PHYSICS*. ISSN 1367-2630, MAY 1 2023, vol. 25, no. 5. Dostupné na: <https://doi.org/10.1088/1367-2630/acd46f>, Registrované v: WOS

6. [1.1] ÖNEL, A.C. - ÇIMEN, M. - YARIMBIYIK, A.E. - ARIKAN, M. - RAMEEV, B. Interaction of a Magnetic Skyrmionium With an Engineered Defect. In *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM*. ISSN 1557-1939, JUN 2023, vol. 36, no. 6, p. 1533-1539. Dostupné na: <https://doi.org/10.1007/s10948-023-06603-7>, Registrované v: WOS

ADCA76 FERRARI, C. - KORYTÁR, Dušan - KUMAR, J. Study of residual strains in wafer crystal by means of lattice tilt mapping. In *Il Nuovo Cimento D*, 1997, vol. 19, p. 165. (1996: 0.500 - IF, karentované - CCC). (1997 - Current Contents).

Citácie:

1. [1.1] SAKATA, O. - YAGYU, S. Visualizing local bending of lattice planes by extending two-azimuth synchrotron X-ray diffraction datasets to asymmetric reflection. In *SCIENCE AND TECHNOLOGY OF ADVANCED MATERIALS-METHODS*. DEC 31 2023, vol. 3, no. 1. Dostupné na: <https://doi.org/10.1080/27660400.2023.2199130>, Registrované v: WOS

ADCA77 FERRARI, C. - BUFFAGNI, E. - BONNINI, E. - KORYTÁR, Dušan. High diffraction efficiency in crystal curved by surface damage. In *Journal of Applied Crystallography*, 2013, vol. 46, p. 1576-1581. (2012: 3.343 - IF, Q1 - JCR, 2.580 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0021-8898. Dostupné na: <https://doi.org/10.1107/S0021889813022954>

Citácie:

1. [1.1] LIDER, V.V. Focusing Diffraction Optics for Orbital Telescopes. In *OPTICS AND SPECTROSCOPY*. ISSN 0030-400X, OCT 2023, vol. 131, no. 10, SI, p. 1016-1042. Dostupné na: <https://doi.org/10.1134/S0030400X23100132>, Registrované v: WOS

ADCA78 FOS, Alen** - ŠVEC, Peter - JANOTOVÁ, Irena - JANIČKOVIČ, Dušan - BUTVINOVÁ, Beata - BÚRAN, Marek - KYRITSI, Anna - KONSTANTINIDIS, Nikolaos - NOVÁK, Patrik. Effect of Cu and Co addition on non-isothermal crystallization kinetics of rapidly quenched Fe-Sn-B based alloys. In *Journal of Non-Crystalline Solids*, 2022, vol. 593, no. 12, art. no. 121785. (2021: 4.458 - IF, Q1 - JCR, 0.751 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0022-3093. Dostupné na: <https://doi.org/10.1016/j.jnoncrysol.2022.121785> (APVV-19-0369 : Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania. VEGA č. 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov)

Citácie:

1. [1.1] WANG, Liuhan - ZHENG, Zhigang - CHEN, Yinbin - CHEN, Xiaoping - QIU, Zhaoguo - ZENG, Dechang - YUAN, Shengfu. The influence of Co on the magnetic properties of Fe-Si-B-Nb-Cu system. In *PHYSICA B-CONDENSED*

- MATTER*, 2023, vol. 660, no., pp. ISSN 0921-4526. Dostupné na: <https://doi.org/10.1016/j.physb.2023.414906>, Registrované v: WOS
- ADCA79 FRACASSO, M.** - GÖMÖRY, Fedor - SOLOVYOV, Mykola - GERBALDO, R. - GHIGO, G. - LAVIANO, F. - SPARACIO, S. - TORSELLO, D. - GOZZELINO, L. Numerical study on flux-jump occurrence in a cup-shaped MgB2 bulk for magnetic shielding applications. In *Superconductor Science and Technology*, 2023, vol. 36, no. 044001. (2022: 3.6 - IF, Q2 - JCR, 1.191 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/acbac5> (VEGA 2/0036/21)
- Citácie:
1. [1.1] KOPARAN, E.T. - GÜNER, S.B. - AKSOY, C. - SAVASKAN, B. *The effect of nano-Pt/nano-SiC co-additions on superconducting properties of bulk MgB2. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. ISSN 0957-4522, JUN 2023, vol. 34, no. 18. Dostupné na: <https://doi.org/10.1007/s10854-023-10842-8>, Registrované v: WOS*
- ADCA80 FRACASSO, M.** - GÖMÖRY, Fedor - SOLOVYOV, Mykola - GERBALDO, R. - GHIGO, G. - LAVIANO, F. - NAPOLITANO, A. - TORSELLO, D. - GOZZELINO, L. Modelling and performance analysis of MgB2 and hybrid magnetic shields. In *Materials*, 2022, vol. 15, no. 667. (2021: 3.748 - IF, Q1 - JCR, 0.604 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1996-1944. Dostupné na: <https://doi.org/10.3390/ma15020667> (APVV 16-0418)
- Citácie:
1. [1.1] ALIMENTI, A. - TOROKHTII, K. - GARCÍA, P.V. - SILVA, E. - GRIGOROSCUA, M.A. - BADICA, P. - CRISAN, A. - POMPEO, N. *Measurements of Surface Impedance in MgB2 in DC Magnetic Fields: Insights in Flux-Flow Resistivity. In MATERIALS. JAN 2023, vol. 16, no. 1. Dostupné na: <https://doi.org/10.3390/ma16010205>, Registrované v: WOS*
2. [1.1] BRIALMONT, S. - DULAR, J. - WÉRA, L. - FAGNARD, J.F. - VANDERHEYDEN, B. - GEUZAINÉ, C. - HAHN, S. - PATEL, A. - VANDERBEMDEN, P. *Magnetic shielding up to 0.67 T at 77 K using a stack of high temperature superconducting tape annuli of 26 mm bore. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, MAY 1 2023, vol. 36, no. 5. Dostupné na: <https://doi.org/10.1088/1361-6668/acc981>, Registrované v: WOS*
- ADCA81 FRAIT, Z. - ŠTURC, P. - TEMST, K. - BRUYNSEAEDE, Y. - VÁVRA, Ivo. Microwave and d.c. differential giant magnetoresistance study of iron/chromium superlattices. In *Solid State Communications*, 1999, vol. 112, p. 569-573. (1998: 1.297 - IF, karentované - CCC). (1999 - Current Contents, SCOPUS). ISSN 0038-1098.
- Citácie:
1. [1.1] RINKEVICH, A.B. - MILYAEV, M.A. - KUZNETSOV, E.A. - PEROV, D.V. - PAVLOVA, A.Y. *Microwave Magnetoresistance Effect in a (CoFe/Cu) Superlattice with Micron-Sized Holes. In TECHNICAL PHYSICS. ISSN 1063-7842, DEC 2023, vol. 68, no. SUPPL 3, SI, p. S485-S492. Dostupné na: <https://doi.org/10.1134/S1063784223900723>, Registrované v: WOS*
2. [1.2] KAWAZOE, Yoshiyuki - NOTE, Ryunosuke. *Magnetic properties of metals: Magnetic and electric properties of magnetic metallic multilayers: A supplement to Landolt-Börnstein III/32 series. In Magnetic Properties of Metals: Magnetic and Electric Properties of Magnetic Metallic Multilayers: A Supplement to Landolt-Börnstein III/32 Series, 2023-06-06, pp. 1-1054. Dostupné na: <https://doi.org/10.1007/978-3-662-64909-1>, Registrované v: SCOPUS*
3. [1.2] KOTOV, Leonid - LASEK, Michail - VLASOV, Vladimir - KALININ, Yuri - SITNIKOV, Alexander - TEMNOV, Vasily. *Influence of Magnetic Field on*

Microwave Impedance of Composite Films (CoFeB+SiOinf2/inf). In 2023 International Conference on Next Generation Electronics, NEleX 2023, 2023-01-01, pp. Dostupné na: <https://doi.org/10.1109/NEleX59773.2023.10421632>, Registrované v: SCOPUS

ADCA82 FRÖHLICH, Karol - HUŠEKOVÁ, Kristína - MACHAJDÍK, Daniel - HOOKER, J.C. - PEREZ, N. - FANCIULLI, M. - FERRARI, S. - WIEMER, C. - DIMOULAS, A. - VELLIANITIS, G. - ROOZEBOOM, F. Ru and RuO₂ gate electrodes for advanced CMOS technology. In Materials Science and Engineering. B.Solid-State Materials for Advanced Technology, 2004, vol. 109, p. 117–121. (2003: 1.070 - IF, karentované - CCC). (2004 - Current Contents, WOS, SCOPUS). ISSN 0921-5107.

Citácie:

1. [1.1] POONKOTTIL, N. - RIJCKAERT, H. - RAJENDRAN, K. - PETIT, R.R. - MARTIN, L.I.D.J. - VAN THOURHOUT, D. - VAN DRIESSCHE, I. - DETAVERNIER, C. - DENDOOVEN, J. Low Temperature Area Selective Atomic Layer Deposition of Ruthenium Dioxide Thin Films Using Polymers as Inhibition Layers. In ADVANCED MATERIALS INTERFACES. ISSN 2196-7350, MAR 2023, vol. 10, no. 9. Dostupné na: <https://doi.org/10.1002/admi.202201934>, Registrované v: WOS

2. [1.1] WANG, T.Y. - MO, C.L. - CHOU, C.Y. - CHUANG, C.H. - CHEN, M.J. Impact of monolayer engineering on ferroelectricity of sub-5 nm Hf_{0.5}Zr_{0.5}O₂ thin films. In ACTA MATERIALIA. ISSN 1359-6454, MAY 15 2023, vol. 250. Dostupné na: <https://doi.org/10.1016/j.actamat.2023.118848>, Registrované v: WOS

ADCA83 FRÖHLICH, Karol - ŤAPAJNA, Milan - ROSOVÁ, Alica - DOBROČKA, Edmund - HUŠEKOVÁ, Kristína - AARIK, J. - AIDLA, A. Growth of high-dielectric-constant TiO₂ films in capacitors with RuO₂ electrodes. In Electrochemical and Solid State Letters, 2008, vol. 11, p. G19-G21. (2007: 2.109 - IF, Q1 - JCR, 1.432 - SJR, Q1 - SJR). ISSN 1099-0062.

Citácie:

1. [1.1] DOAN, H.T. - GOLOSOV, D.A. - ZHANG, J. - MELNIKOV, S.N. - ZAVADSKI, S.M. Application of Optical Emission Spectroscopy for Predicting the Composition of Films in Reactive Magnetron Sputtering of Ti-Al Composite Targets. In SURFACE ENGINEERING AND APPLIED ELECTROCHEMISTRY. ISSN 1068-3755, OCT 2023, vol. 59, no. 5, p. 682-689. Dostupné na: <https://doi.org/10.3103/S106837552305006X>, Registrované v: WOS

ADCA84 FRÖHLICH, Karol - LUPTÁK, Roman - DOBROČKA, Edmund - HUŠEKOVÁ, Kristína - ČIČO, Karol - ROSOVÁ, Alica - LUKOCIUS, M. - ABRUTIS, A. - PÍSEČNÝ, Pavol - ESPINOS, J.P. Characterization of rare earth oxides based MOSFET gate stacks prepared by metal-organic chemical vapour deposition. In Materials science in semiconductor processing, 2006, vol. 9, p.1065-1072. (2005: 0.884 - IF, Q2 - JCR, 0.554 - SJR, Q2 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 1369-8001. Dostupné na: <https://doi.org/10.1016/j.mssp.2006.10.025>

Citácie:

1. [1.1] SAWKA, Agata. MOCVD growth of gadolinium oxide layers on tubes. In Ceramics International, 2023-07-15, 49, 14, pp. 23835-23843. ISSN 02728842. Dostupné na: <https://doi.org/10.1016/j.ceramint.2023.04.224>, Registrované v: WOS

ADCA85 FRÖHLICH, Karol** - KUNDRATA, Ivan - BLAHO, Michal - PRECNER, Marián - ŤAPAJNA, Milan - KLIMO, Martin - ŠUCH, Ondrej - ŠKVAREK, Ondrej. Hafnium oxide and tantalum oxide based resistive switching structures for realization of minimum and maximum functions. In Journal of Applied Physics,

2018, vol. 124, no. 152109. (2017: 2.176 - IF, Q2 - JCR, 0.739 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/1.5025802>

Citácie:

1. [1.1] GE, P.Z. - TANG, H. - HUANG, X.X. - TANG, X.G. - JIANG, Y.P. - LIU, Q.X. Investigation of resistive switching properties in acceptor-induced Sr(Fe,Ti)O₃ thin film memristor. In MATERIALS TODAY COMMUNICATIONS. JUN 2023, vol. 35. Dostupné na: <https://doi.org/10.1016/j.mtcomm.2023.105593>, Registrované v: WOS

2. [1.1] LI, C.Y. - HSU, T.H. - HUANG, C.L. Reliable RRAM devices utilizing sol-gel derived amorphous Ce₂Ti₂O₇ thin films. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, OCT 25 2023, vol. 961. Dostupné na: <https://doi.org/10.1016/j.jallcom.2023.170987>, Registrované v: WOS

ADCA86

FRÖHLICH, Karol. TiO₂-based structures for nanoscale memory applications : invited review. In Materials science in semiconductor processing, 2013, vol. 16, p. 1186-1195. (2012: 1.338 - IF, Q2 - JCR, 0.450 - SJR, Q2 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1369-8001. Dostupné na: <https://doi.org/10.1016/j.mssp.2012.11.013>

Citácie:

1. [1.1] CHAI, P.H. - ZHU, J. - CHEN, J.L. Enhanced charge trapping characteristics through composite high-k material phase separation. In APPLIED PHYSICS LETTERS. ISSN 0003-6951, NOV 6 2023, vol. 123, no. 19. Dostupné na: <https://doi.org/10.1063/5.0170774>, Registrované v: WOS

2. [1.1] ISIK, M. - DELICE, S. - GASANLY, N. Temperature-dependent optical properties of TiO₂ nanoparticles: a study of band gap evolution. In OPTICAL AND QUANTUM ELECTRONICS. ISSN 0306-8919, OCT 2023, vol. 55, no. 10. Dostupné na: <https://doi.org/10.1007/s11082-023-05138-4>, Registrované v: WOS

3. [1.1] PATIL, A.R. - DONGALE, T.D. - KAMAT, R.K. - RAJPURE, K.Y. Binary metal oxide-based resistive switching memory devices: A status review. In MATERIALS TODAY COMMUNICATIONS. MAR 2023, vol. 34. Dostupné na: <https://doi.org/10.1016/j.mtcomm.2023.105356>, Registrované v: WOS

ADCA87

FROLEK, Lubomír - ŠOUC, Ján. Measurement of AC transport current loss in different kinds of superconducting tapes and wires in liquid helium. In Superconductor Science and Technology, 2011, vol. 24, art. no. 105016. (2010: 2.402 - IF, Q1 - JCR, 1.480 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, SCOPUS). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/24/10/105016>

Citácie:

1. [1.1] VARGAS-LLANOS, C.R. - KRÄMER, J. - NOE, M. - GRILLI, F. Design and test of a setup for calorimetric measurements of AC transport losses in HTS racetrack coils. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, APR 1 2023, vol. 36, no. 4. Dostupné na: <https://doi.org/10.1088/1361-6668/acbba5>, Registrované v: WOS

ADCA88

FULAJTÁROVÁ, K. - SOTÁK, T. - HRONEC, M. - VÁVRA, Ivo - DOBROČKA, Edmund - OMASTOVÁ, Mária. Aqueous phase hydrogenation of furfural to furfural alcohol over Pd-Cu catalysts. In Applied Catalysis A: General, 2015, vol. 502, p. 78-85. (2014: 3.942 - IF, Q1 - JCR, 1.335 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0926-860X. Dostupné na: <https://doi.org/10.1016/j.apcata.2015.05.031>

Citácie:

1. [1.1] CHEN, X.Y. - WANG, J.J. - DU, Z. - CAI, H.Y. - HUANG, Y. - CHEN, G.F. - TANG, C.C. - FANG, Y. Efficient and Selective Hydrogenolysis of 5-

- Hydroxymethylfurfural to 2,5-Dimethylfuran by a Bimetallic Copper-Palladium Catalyst on a Carbon-Doped Boron Nitride Support. In CHEMISTRYSELECT. ISSN 2365-6549, JUN 20 2023, vol. 8, no. 23. Dostupné na: <https://doi.org/10.1002/slct.202300862>, Registrované v: WOS*
2. [1.1] GAO, B.B. - ZHANG, J. - ZHANG, M. - LI, H.S. - YANG, J.H. Highly dispersed PdCu supported on MCM-41 for efficiently selective transfer hydrogenation of furfural into furfuryl alcohol. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, MAY 15 2023, vol. 619. Dostupné na: <https://doi.org/10.1016/j.apsusc.2023.156716>, Registrované v: WOS
3. [1.1] INTANA, T. - THONGRATKAEW, S. - NONKUMWONG, J. - DONPHAI, W. - WITON, T. - CHAREONPANICH, M. - SANO, N. - FAUNGNAWAKIJ, K. - KIATPHUENGPORN, S. Kinetics study of the selective hydrogenation of furfural to furfuryl alcohol over CuAl₂O₄ spinel catalyst. In MOLECULAR CATALYSIS. ISSN 2468-8231, AUG 2023, vol. 547. Dostupné na: <https://doi.org/10.1016/j.mcat.2023.113294>, Registrované v: WOS
4. [1.1] JASWAL, A. - SINGH, P.P. - KAR, A.K. - MONDAL, T. - SRIVASTAVA, R. Production of 2-methyl furan, a promising 2nd generation biofuel, by the vapor phase hydrodeoxygenation of biomass-derived furfural over TiO₂ supported Cu-Ni bimetallic catalysts. In FUEL PROCESSING TECHNOLOGY. ISSN 0378-3820, JUN 15 2023, vol. 245. Dostupné na: <https://doi.org/10.1016/j.fuproc.2023.107726>, Registrované v: WOS
5. [1.1] KOBZAR, E.O. - STEPANOVA, L.N. - LEONT',EVA, N.N. - GULYAEVA, T.I. - TRENKHIN, M.V. - LAVRENOV, A.V. Effect of the Composition and Synthesis Procedure of Catalysts Based on CoAl Hydroxides on Their Properties in Furfural Hydrogenation. In KINETICS AND CATALYSIS. ISSN 0023-1584, AUG 2023, vol. 64, no. 4, p. 473-483. Dostupné na: <https://doi.org/10.1134/S0023158423040043>, Registrované v: WOS
6. [1.1] MIRONENKO, R.M. - BELSKAYA, O.B. - LIKHOLOBOV, V.A. Aqueous-Phase Hydrogenation of Furfural in the Presence of Supported Metal Catalysts of Different Types. A Review. In DOKLADY PHYSICAL CHEMISTRY. ISSN 0012-5016, MAR 2023, vol. 509, no. 1, p. 33-50. Dostupné na: <https://doi.org/10.1134/S0012501623600109>, Registrované v: WOS
7. [1.1] MO, M. - LIU, R.Y. - TANG, J.S. - XUN, Y.Y. - GUAN, H.R. Improving catalytic performance and reusability of flower-like Co-B-P amorphous alloy nanobelts for the selective hydrogenation of furfural in water. In JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY. ISSN 1226-086X, OCT 25 2023, vol. 126, p. 601-610. Dostupné na: <https://doi.org/10.1016/j.jiec.2023.06.052>, Registrované v: WOS
8. [1.1] PARK, Y. - PHAM, V.N. - LEE, K.Y. - LEE, H.G. Performance Promotion of Multipurpose Catalysts Using Increased Oxygen Vacancy Amounts by Charge-Mismatched Doping. In INORGANIC CHEMISTRY. ISSN 0020-1669, AUG 9 2023, vol. 62, no. 33, p. 13428-13434. Dostupné na: <https://doi.org/10.1021/acs.inorgchem.3c01772>, Registrované v: WOS
9. [1.1] QUATTROCIOCCI, D.G.S. - LIMA, T.D. Catalytic Hydrogenation Reactions of Lignocellulosic Biomass-derived Compounds as a Strategy to Obtain Value-added Products. In REVISTA VIRTUAL DE QUIMICA. ISSN 1984-6835, SEP-OCT 2023, vol. 15, no. 5, p. 931-955. Dostupné na: <https://doi.org/10.21577/1984-6835.20230016>, Registrované v: WOS
10. [1.1] RONDA-LEAL, M. - OSMAN, S.M. - JANG, H.W. - SHOKOUHIMEHR, M. - ROMERO, A.A. - LUQUE, R. Selective hydrogenation of furfural using TiO₂-Fe₂O₃/C from Ti-Fe-MOFs as sacrificial template: Microwave vs Continuous flow experiments. In FUEL. ISSN 0016-2361, FEB 1 2023, vol. 333,

1. Dostupné na: <https://doi.org/10.1016/j.fuel.2022.126221>, Registrované v: WOS
11. [1.1] TIAN, X.Q. - DONG, Y.P. - ZAHID, M. Synergetic catalysis of Pt/WN-TiO₂ nanocomposites for selective hydrogenation of furfural to valuable furfuryl alcohol. In MOLECULAR CATALYSIS. ISSN 2468-8231, JUL 1 2023, vol. 545. Dostupné na: <https://doi.org/10.1016/j.mcat.2023.113188>, Registrované v: WOS
12. [1.1] TIAN, Y. - FEMG, Y. - LI, Z. - FAN, Y. - SPERRY, J. - SUN, Y. - YANG, S.L. - TANG, X. - LIN, L. - ZENG, X.H. Green and efficient selective hydrogenation of furfural to furfuryl alcohol over hybrid CoOx/Nb₂O₅ nanocatalyst in water. In MOLECULAR CATALYSIS. ISSN 2468-8231, MAR 1 2023, vol. 538. Dostupné na: <https://doi.org/10.1016/j.mcat.2023.112981>, Registrované v: WOS
13. [1.1] WANG, Y.H. - WANG, Z.Z. - XU, C.Y. - ZHOU, S.H. Synthesis of Alumina Supported Pt-SnO₂ Hybrid Nanostructures by In Situ Transformation of PtSn Alloy Nanoparticles and Their Application as Highly Efficient Catalysts for Selective Hydrogenation of Furfural. In JOURNAL OF PHYSICAL CHEMISTRY C. ISSN 1932-7447, MAR 2 2023, vol. 127, no. 8, p. 4033-4041. Dostupné na: <https://doi.org/10.1021/acs.jpcc.2c07661>, Registrované v: WOS
14. [1.1] WEI, X.Y. - BAI, X. - MA, F.Y. - ZONG, Z.M. - ZHAO, W. - NI, Z.H. - FAN, X. - SUN, L.B. - CAO, J.P. - ZHAO, Y.P. - QI, S.C. - LIANG, J. - YUE, X.M. - LIU, F.J. - MO, W.L. - LIU, J.M. - KANG, Y.H. - LIU, G.H. - LIU, Z.Q. - LI, L. Advances in Catalytic Hydroconversion of Typical Heavy Carbon Resources under Mild Conditions. In ENERGY & FUELS. ISSN 0887-0624, AUG 8 2023, vol. 37, no. 17, p. 12570-12588. Dostupné na: <https://doi.org/10.1021/acs.energyfuels.3c01713>, Registrované v: WOS
15. [1.1] XU, D.Z. - TANG, W. - TANG, Z.Y. - HE, Y.C. An Efficient Strategy for Chemoenzymatic Conversion of Corn Stover to Furfuryl Alcohol in Deep Eutectic Solvent ChCl:PEG10000-Water Medium. In CATALYSTS. MAR 2023, vol. 13, no. 3. Dostupné na: <https://doi.org/10.3390/catal13030467>, Registrované v: WOS
16. [1.1] YANG, Z. - CONG, X.S. - TENG, D.G. - WEI, X.Y. - LI, Z.X. - XIE, H.S. Facile selective hydrogenation of bio-based furfural to furfuryl alcohol via a ZIF-67-derived Co-based catalyst. In FUEL PROCESSING TECHNOLOGY. ISSN 0378-3820, JAN 2023, vol. 239. Dostupné na: <https://doi.org/10.1016/j.fuproc.2022.107507>, Registrované v: WOS
17. [1.1] YAO, Z. - XIA, G.J. - CAO, W. - ZENG, K.H. - WANG, Y.G. Mechanistic exploration of furfural hydrogenation on copper surface in aqueous phase by DFT and AIMD simulations. In JOURNAL OF CATALYSIS. ISSN 0021-9517, FEB 2023, vol. 418, p. 1-12. Dostupné na: <https://doi.org/10.1016/j.jcat.2022.12.024>, Registrované v: WOS
18. [1.1] ZHANG, J.X. - MAO, D.L. - ZHANG, H. - WU, D.F. Hydrophobic Hollow-Structured nanocatalyst for Aqueous-Phase selective hydrogenation of Furfural: "H₂ storage and Supercharging" effect. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, SEP 1 2023, vol. 471. Dostupné na: <https://doi.org/10.1016/j.cej.2023.144461>, Registrované v: WOS
19. [1.1] ZHANG, J.Y. - JIA, Z. - YU, S.T. - LIU, S.W. - LI, L. - XIE, C.X. - WU, Q. - ZHANG, Y.Z. - YU, H.L. - LIU, Y.X. - PANG, J.H. - LIU, Y. Regulating the Cu⁰-Cu⁺ ratio to enhance metal-support interaction for selective hydrogenation of furfural under mild conditions. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, JUL 15 2023, vol. 468. Dostupné na: <https://doi.org/10.1016/j.cej.2023.143755>, Registrované v: WOS
20. [1.1] ZHANG, W.D. - WANG, Y.X. - GU, B. - TANG, Q.H. - CAO, Q.E. - FANG, W.H. Regulating the Interaction within Pd-Cu Dual Metal Sites for Selective Hydrogenation of Furfural Using Ambient H₂ Pressure. In ACS

SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, AUG 5 2023, vol. 11, no. 34, p. 12798-12808. Dostupné na:

<https://doi.org/10.1021/acssuschemeng.3c03763>, Registrované v: WOS

21. [1.1] ZHAO, J.B. - LI, X.M. - ZHANG, M. - XU, Z. - QIN, X.M. - LIU, Y.F. - HAN, L.F. - LI, G. *Enhancing the catalytic performance of Co-N-C derived from ZIF-67 by mesoporous silica encapsulation for chemoselective hydrogenation of furfural. In NANOSCALE. ISSN 2040-3364, MAR 2 2023, vol. 15, no. 9, p. 4612-4619. Dostupné na: <https://doi.org/10.1039/d2nr05831f>, Registrované v: WOS*

22. [1.2] QUATTROCIOCHI, Daniel G.S. - DE LIMA, Thiago M. *Reações de Hidrogenação Catalítica de Compostos Oriundos da Biomassa Lignocelulósica Como Estratégia para Obtenção de Produtos de Valor Agregado. In Revista Virtual de Química, 2023-01-01, 15, 5, pp. 931-955. Dostupné na:*

<https://doi.org/10.21577/1984-6835.20230016>, Registrované v: SCOPUS

ADCA89

GENDIAR, Andrej - NISHINO, T. Latent heat calculation of the three-dimensional $q=3, 4,$ and 5 potts models by the tensor product variational approach. In Physical Review E, 2002, vol. 65, p. 046702. (2001: 2.235 - IF, karentované - CCC). (2002 - Current Contents). ISSN 2470-0045.

Citácie:

1. [1.1] YANG, L.P. - FU, Y.F. - XIE, Z.Y. - XIANG, T. *Efficient calculation of three-dimensional tensor networks. In PHYSICAL REVIEW B. ISSN 2469-9950, APR 13 2023, vol. 107, no. 16. Dostupné na:*

<https://doi.org/10.1103/PhysRevB.107.165127>, Registrované v: WOS

ADCA90

GENDIAR, Andrej - NISHINO, T. Phase diagram of the 3D Axial-Next-Nearest-Neighbor Ising model. In Physical Review B, 2005, vol. 71, no. 024404-10. (2004: 3.075 - IF, karentované - CCC). (2005 - Current Contents). ISSN 1550-235X.

Citácie:

1. [1.1] KAMIYA, Y. *Magnetic field induced deformation of the spin density wave microphases in Ca₃Co₂O₆. In PHYSICAL REVIEW B. ISSN 2469-9950, APR 10 2023, vol. 107, no. 13. Dostupné na:*

<https://doi.org/10.1103/PhysRevB.107.134409>, Registrované v: WOS

2. [1.1] YANG, L.P. - FU, Y.F. - XIE, Z.Y. - XIANG, T. *Efficient calculation of three-dimensional tensor networks. In PHYSICAL REVIEW B. ISSN 2469-9950, APR 13 2023, vol. 107, no. 16. Dostupné na:*

<https://doi.org/10.1103/PhysRevB.107.165127>, Registrované v: WOS

ADCA91

GERULOVÁ, K. - KUCMANOVÁ, A. - SANNY, Z. - GARAIOVÁ, Zuzana - SEILER, Eugen - ČAPLOVIČOVÁ, M. - ČAPLOVIČ, Ľubomír - PALCUT, M.**. Fe₃O₄-PEI nanocomposites for magnetic harvesting of *Chlorella vulgaris*, *Chlorella ellipsoidea*, *Microcystis aeruginosa*, and *Auxenochlorella protothecoides*. In Nanomaterials-Basel, 2022, vol. 12, no. 1786. (2021: 5.719 - IF, Q1 - JCR, 0.839 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 2079-4991. Dostupné na: <https://doi.org/10.3390/nano12111786>

Citácie:

1. [1.1] ABDI, Z. - MASOULEH, P.A. - KHACHATOURIAN, A.M. *Fabrication of NiFe₂O₄@PEI and NiFe₂O₄@PPy nanospheres for adsorptive and photocatalytic removal of organic dyes. In INORGANIC CHEMISTRY COMMUNICATIONS. ISSN 1387-7003, JUL 2023, vol. 153. Dostupné na:*

<https://doi.org/10.1016/j.inoche.2023.110833>, Registrované v: WOS

2. [1.1] CHEN, X. - CHEN, J. - MA, M.S. - YU, S.H. - LIU, Z.G. - ZENG, X.D. *An Ethyl-Thioglycolate-Functionalized Fe₃O₄@ZnS Magnetic Fluorescent Nanoprobe for the Detection of Ag⁺ and Its Applications in Real Water Solutions. In NANOMATERIALS. JUL 2023, vol. 13, no. 13. Dostupné na:*

<https://doi.org/10.3390/nano13131992>, Registrované v: WOS

3. [1.1] DE MORAIS, E.G. - SAMPAIO, I.C.F. - GONZALEZ-FLO, E. - FERRER, I. - UGGETTI, E. - GARCÍA, J. *Microalgae harvesting for wastewater treatment and resources recovery: A review. In NEW BIOTECHNOLOGY. ISSN 1871-6784, DEC 25 2023, vol. 78, p. 84-94. Dostupné na:*

<https://doi.org/10.1016/j.nbt.2023.10.002>, Registrované v: WOS

4. [1.1] LIU, W.X. - ZHOU, W.N. - SONG, S. - ZHAO, Y.G. - LU, Y. *Preparation and Characterization of Nano-Fe₃O₄ and Its Application for C18-Functionalized Magnetic Nanomaterials Used as Chromatographic Packing Materials. In NANOMATERIALS. MAR 2023, vol. 13, no. 6. Dostupné na:*

<https://doi.org/10.3390/nano13061111>, Registrované v: WOS

5. [1.1] RAWAT, J. - JAISWAL, K.K. - DAS, N. - KUMAR, S. - GURURANI, P. - BISHT, B. - VLASKIN, M.S. - NAYAK, M. - KUMAR, V. *Hydrothermal liquefaction of freshwater microalgae biomass using Fe₃O₄ nanoparticle as a catalyst. In ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS. ISSN 1556-7036, OCT 2 2023, vol. 45, no. 4, p. 12988-13000. Dostupné na: <https://doi.org/10.1080/15567036.2023.2277892>, Registrované v: WOS*

6. [1.1] SCHOBESBERGER, M. - HELMHAGEN, S. - MENDE, S. - BERENSMEIER, S. - FRAGA-GARCÍA, P. *From Micro to Nano: Grinding Natural Magnetite Ore for Microalgae Harvesting. In MAGNETOCHEMISTRY. JUN 2023, vol. 9, no. 6. Dostupné na:*

<https://doi.org/10.3390/magnetochemistry9060149>, Registrované v: WOS

7. [1.1] ZHANG, Y.W. - LIU, P.R. - HONG, Y. *Fabrication of Magnetic Silica Nanomaterials and Their Effects on Algal Harvesting. In WATER. AUG 2023, vol. 15, no. 15. Dostupné na: <https://doi.org/10.3390/w15152823>, Registrované v: WOS*

8. [1.1] ZHAO, Y. - WU, X.X. - CHANG, W.J. - CHE, W.L. - LIU, Y. - LI, Y.P. *A novel magnetic buoyant-bead flotation method for the removal of typical microalgae from harmful algal blooms. In JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING. ISSN 2213-2929, JUN 2023, vol. 11, no. 3. Dostupné na: <https://doi.org/10.1016/j.jece.2023.110170>, Registrované v: WOS*

ADCA92

GHABELI, Asef - PARDO, Enric** - KAPOLKA, Milan. 3D modeling of a superconducting dynamo-type flux pump. In *Scientific Reports*, 2021, vol. 11, no. 10296. (2020: 4.380 - IF, Q1 - JCR, 1.240 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-021-89596-4>

Citácie:

1. [1.1] AINSLIE, M.D. *Numerical modelling of high-temperature superconducting dynamos: A review. In SUPERCONDUCTIVITY. MAR 2023, vol. 5. Dostupné na: <https://doi.org/10.1016/j.supcon.2022.100033>, Registrované v: WOS*

2. [1.1] RUSSO, G. - MORANDI, A. *Evaluation of the Performance of Commercial High Temperature Superconducting Tapes for Dynamo Flux Pump Applications. In ENERGIES. NOV 2023, vol. 16, no. 21. Dostupné na: <https://doi.org/10.3390/en16217244>, Registrované v: WOS*

3. [1.1] SHAH, A. - MA, J. - HU, J. - PATEL, I. - OZTURK, Y. - YANG, J. - TIAN, M. - HAO, L. - HUANG, H. - WEI, H. - WANG, Q. - COOMBS, T.A. *Stator optimization for HTS rotating permanent magnets based flux pump. In PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS. ISSN 0921-4534, APR 15 2023, vol. 607. Dostupné na: <https://doi.org/10.1016/j.physc.2023.1354227>, Registrované v: WOS*

4. [1.1] VENUTURUMILLI, S. - FRANCIS, A.C. - PANTOJA, A.E. - TAYLOR,

R.W. - BROOKS, J.M. - MOSELEY, D.A. - BADCOCK, R.A. - BUMBY, C.W. Temperature dependent behavior of a kA-class superconducting flux pump with a continuous cylindrical stator. In APPLIED PHYSICS LETTERS. ISSN 0003-6951, NOV 13 2023, vol. 123, no. 20. Dostupné na: <https://doi.org/10.1063/5.0169553>, Registrované v: WOS

5. [1.1] WANG, Q. - ZHANG, H.Y. - HAO, L.N. - HU, J.T. - WEI, H.G.N. - PATEL, I. - SHAH, A.D. - COOMBS, T. Magnetisation and demagnetisation of trapped field stacks in a superconducting machine for electric aircraft. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acfcdf>, Registrované v: WOS

ADCA93 GHABELI, Asef** - PARDO, Enric**. Modeling of airgap influence on DC voltage generation in a dynamo-type flux pump. In Superconductor Science and Technology, 2020, vol. 33, no. 035008. (2019: 3.067 - IF, Q2 - JCR, 0.991 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ab6958> (VEGA 2/0097/18)

Citácie:

1. [1.1] AINSLIE, M.D. Numerical modelling of high-temperature superconducting dynamos: A review. In SUPERCONDUCTIVITY. MAR 2023, vol. 5. Dostupné na: <https://doi.org/10.1016/j.supcon.2022.100033>, Registrované v: WOS

2. [1.1] RUSSO, G. - MORANDI, A. Evaluation of the Performance of Commercial High Temperature Superconducting Tapes for Dynamo Flux Pump Applications. In ENERGIES. NOV 2023, vol. 16, no. 21. Dostupné na: <https://doi.org/10.3390/en16217244>, Registrované v: WOS

3. [1.2] CHEN, Junliang - JIN, Jianxun - HUANG, Zhenyang - ZHANG, Yongchao. Investigation of Dynamic Resistance of HTS Tape Based on T-A Formulation. In 2023 IEEE International Conference on Applied Superconductivity and Electromagnetic Devices, ASEMD 2023, 2023-01-01, pp. Dostupné na: <https://doi.org/10.1109/ASEMD59061.2023.10369578>, Registrované v: SCOPUS

ADCA94 GHABELI, Asef** - AINSLIE, M.D. - PARDO, Enric - QUEVAL, L. - MATAIRA, R. Modeling the charging process of a coil by an HTS dynamo-type flux pump. In Superconductor Science and Technology, 2021, vol. 34, no. 084002. (2020: 3.219 - IF, Q2 - JCR, 1.033 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ac0ccb>

Citácie:

1. [1.1] RUSSO, G. - MORANDI, A. Evaluation of the Performance of Commercial High Temperature Superconducting Tapes for Dynamo Flux Pump Applications. In ENERGIES. NOV 2023, vol. 16, no. 21. Dostupné na: <https://doi.org/10.3390/en16217244>, Registrované v: WOS

2. [1.1] SHAH, A. - MA, J. - HU, J. - PATEL, I. - OZTURK, Y. - YANG, J. - TIAN, M. - HAO, L. - HUANG, H. - WEI, H. - WANG, Q. - COOMBS, T.A. Stator optimization for HTS rotating permanent magnets based flux pump. In PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS. ISSN 0921-4534, APR 15 2023, vol. 607. Dostupné na: <https://doi.org/10.1016/j.physc.2023.1354227>, Registrované v: WOS

ADCA95 GIANNAZZO, F.** - PANASCI, S.E. - SCHILIRÒ, E. - FIORENZA, P. - GRECO, G. - ROCCAFORTE, F. - CANNAS, M. - AGNELLO, S. - KOOS, A. - PÉCZ, B. - ŠPANKOVÁ, Marianna - CHROMIK, Štefan. Highly homogeneous 2D/3D heterojunction diodes by pulsed laser deposition of MoS₂ on ion implantation doped 4H-SiC. In Advanced Materials Interfaces, 2023, vol. 10, no. 2201502. (2022:

5.4 - IF, Q2 - JCR, 1.315 - SJR, Q1 - SJR). ISSN 2196-7350. Dostupné na:

<https://doi.org/10.1002/admi.202201502>

Citácie:

1. [1.1] LEBLANC, C. - MUDIYANSELAGE, D.H. - SONG, S.G. - ZHANG, H.R. - DAVYDOV, A.V. - FU, H.Q. - JARIWALA, D. Vertical van der Waals heterojunction diodes comprising 2D semiconductors on 3D β -Ga₂O₃. In NANOSCALE. ISSN 2040-3364, JUN 15 2023, vol. 15, no. 23, p. 9964-9972.

Dostupné na: <https://doi.org/10.1039/d3nr01987j>, Registrované v: WOS

2. [1.1] LIU, W.J. - YU, Y.Y. - PENG, M. - ZHENG, Z.H. - JIAN, P.C. - WANG, Y. - ZOU, Y.C. - ZHAO, Y.M. - WANG, F. - WU, F. - CHEN, C.Q. - DAI, J.N. - WANG, P. - HU, W.D. Integrating 2D layered materials with 3D bulk materials as van der Waals heterostructures for photodetections: Current status and perspectives. In INFOMAT. OCT 2023, vol. 5, no. 10. Dostupné na:

<https://doi.org/10.1002/inf2.12470>, Registrované v: WOS

3. [1.1] TITZE, M. - POPLAWSKY, J.D. - KRETSCHMER, S. - KRASHENINNIKOV, A.V. - DOYLE, B.L. - BIELEJEC, E.S. - HOBLER, G. - BELIANINOV, A. Measurement and Simulation of Ultra-Low-Energy Ion-Solid Interaction Dynamics. In MICROMACHINES. OCT 2023, vol. 14, no. 10.

Dostupné na: <https://doi.org/10.3390/mi14101884>, Registrované v: WOS

4. [1.2] Ding, C., Ma, H.: Heteroepitaxial MoS₂ on Wide Bandgap Semiconductors: A Review In 2023 20th China International Forum on Solid State Lighting and 2023 9th International Forum on Wide Bandgap Semiconductors, SSLCHINA: IFWS 2023 pp. 1-5, Registrované v: SCOPUS

ADCA96

GLASSON, N. - STAINES, M. - ALLPRESS, N. - PANNU, M. - TANCHON, J. - PARDO, Enric - BADCOCK, R. - BUCKLEY, R. Test results and conclusions from a 1 MVA superconducting transformer featuring 2G HTS Roebel cable. In IEEE Transactions on Applied Superconductivity, 2017, vol. 27, no. 5500205. (2016: 1.583 - IF, Q3 - JCR, 0.398 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na:

<https://doi.org/10.1109/TASC.2016.2639032>

Citácie:

1. [1.1] CHEN, H.Y. - ZHANG, H.Y. AC loss mitigation for high temperature superconducting coils in wireless power transfer. In SUPERCONDUCTIVITY. JUN 2023, vol. 6. Dostupné na: <https://doi.org/10.1016/j.supcon.2023.100044>, Registrované v: WOS

2. [1.1] LI, X.D. - GROSSE, V. - SONG, D.B. - YANG, W.J. - MACIÁN-JUAN, R. Electromechanical behaviour of REBCO coated conductor toroidal field coils for ultra-high-field magnetic-confinement plasma devices. In JOURNAL OF PHYSICS D-APPLIED PHYSICS. ISSN 0022-3727, JAN 26 2023, vol. 56, no. 4.

Dostupné na: <https://doi.org/10.1088/1361-6463/aca988>, Registrované v: WOS

3. [1.1] MIURA, S. - KOBUN, A. - MASUDA, Y. - MIYAZAKI, H. - KAWAGOE, A. - SASA, H. - YOSHIDA, K. - SATO, S. - IWAKUMA, M. Development and assessment of simplified analytical method for current distribution among REBa₂Cu₃O_y parallel conductors in armature windings for fully superconducting rotating machines. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, JUN 1 2023, vol. 36, no. 6. Dostupné na: <https://doi.org/10.1088/1361-6668/acca4f>, Registrované v: WOS

4. [1.1] MIURA, S. - KOBUN, A. - MASUDA, Y. - NAKAMURA, K. - MIYAZAKI, H. - KAWAGOE, A. - SASA, H. - YOSHIDA, K. - SATO, S. - IWAKUMA, M. Current Sharing Among Transposed Three-Parallel REBa₂Cu₃O_y Tapes in Single-Phase Armature Coils. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné

ADCA97

na: <https://doi.org/10.1109/TASC.2023.3241824>, Registrované v: WOS
GLOWACKI, B.A. - MAJOROŠ, Milan - VICKERS, M. - EVETTS, J.E. - SHI, Y. - MCDOUGALL, I. Superconductivity of powder-in-tube MgB₂ wires. In Superconductor Science and Technology, 2001, vol. 14, p. 193-199. (2000: 1.250 - IF, karentované - CCC). (2001 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] HERBIROWO, S. - YUWONO, A.H. - SOFYAN, N. - IMADUDDIN, A. - PRAMONO, A.W. - SUPRIYADI, S. - MOHAMED, J.J. Development of Magnesium Diboride Superconducting Wires through Hot Working with Different Initial Filling Density. In INTERNATIONAL JOURNAL OF TECHNOLOGY. ISSN 2086-9614, DEC 7 2023, vol. 14, no. 7, p. 1570-1577. Dostupné na: <https://doi.org/10.14716/ijtech.v14i7.6695>, Registrované v: WOS
2. [1.1] INOUE, M. - OSAKI, Y. Filament Structure Analysis of Multifilament MgB₂ Wires by Using X-ray CT. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3248540>, Registrované v: WOS
3. [1.1] KWON, H.J. - ROCHESTER, J. - WAN, F. - RINDFLEISCH, M.A. - TOMSIC, M.J. - SUMPTION, M.D. - COLLINGS, E.W. Critical Current Densities and n-Values of MgB₂ Conductors for SMES, MRI, and Low AC Loss Applications. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3247375>, Registrované v: WOS
4. [1.1] LEI, Z.Y. - YAO, C. - GUO, W.W. - WANG, D.L. - MA, Y.W. Progress on the Fabrication of Superconducting Wires and Tapes via Hot Isostatic Pressing. In MATERIALS. MAR 2023, vol. 16, no. 5. Dostupné na: <https://doi.org/10.3390/ma16051786>, Registrované v: WOS
5. [1.1] MAEDA, M. - MATSUMOTO, A. - NISHIJIMA, G. - HEO, Y.U. - HAHN, S. - LEE, S. - CHOI, S. - KIM, J.H. Performance of MgB₂ superconducting wire fabricated with non- identical Mg particles. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, SEP 5 2023, vol. 954. Dostupné na: <https://doi.org/10.1016/j.jallcom.2023.170148>, Registrované v: WOS
6. [1.1] YAMASAKI, A. - KAMBE, H. - KAWAYAMA, I. - ICHINOSE, A. - DOI, T. MgB₂ thin films fabricated on Fe tape and effects of annealing on their properties. In APPLIED PHYSICS EXPRESS. ISSN 1882-0778, JAN 1 2023, vol. 16, no. 1. Dostupné na: <https://doi.org/10.35848/1882-0786/acb1eb>, Registrované v: WOS

ADCA98

GOLDACKER, W. - GRILLI, F. - PARDO, Enric - KARIO, A. - SCHLACHTER, S. - VOJENČIAK, Michal. Roebel cables from REBCO coated conductors: a one-century-old concept for the superconductivity of the future. In Superconductor Science and Technology, 2014, vol. 27, art. no. 093001. (2013: 2.796 - IF, Q1 - JCR, 0.873 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/27/9/093001>

Citácie:

1. [1.1] CHEN, Y. - CHEN, X.Y. - JIANG, S. - FU, L. - SHEN, B.Y. Modeling of HTS high-current stacked conductors with defective tapes in different locations. In PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS. ISSN 0921-4534, MAR 15 2023, vol. 606. Dostupné na: <https://doi.org/10.1016/j.physc.2023.1354224>, Registrované v: WOS
2. [1.1] DE LEON, M. - DIAZ, M.A. - SHIN, H.S. Procedural steps for reliability evaluation of ultrasonically welded REBCO coated conductor lap-joints under

- low cycle fatigue test condition. In *PROGRESS IN SUPERCONDUCTIVITY AND CRYOGENICS*. ISSN 1229-3008, DEC 2023, vol. 25, no. 4, p. 28-31. Dostupné na: <https://doi.org/10.9714/psac.2023.25.4.028>, Registrované v: WOS
3. [1.1] DE LEON, M.B. - NISAY, A.R. - DIAZ, M.A. - SHIN, H.S. Widthwise Bending-Induced Response of Critical Current in REBCO Tapes. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3263332>, Registrované v: WOS
4. [1.1] GODEKE, A. High temperature superconductors for commercial magnets. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acf901>, Registrované v: WOS
5. [1.1] HAO, L.N. - HU, J.T. - WEI, H.G.N. - WANG, Q. - TIAN, M.Y. - PATEL, I. - SHAH, A. - COOMBS, T. Transport AC Losses in Multiple-Layer Roebel Tapes. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3243567>, Registrované v: WOS
6. [1.1] HU, C.Y. - WANG, Y.S. - ZHENG, Y.H. - LI, M.Y. - SHEN, Y.K. - WANG, J.C. Electrothermal Analysis of Cable-in-Conduit Conductor Made from Quasi-Isotropic Strands. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, DEC 2023, vol. 33, no. 9. Dostupné na: <https://doi.org/10.1109/TASC.2023.3329702>, Registrované v: WOS
7. [1.1] JIN, H. - WU, Q. - XIAO, G.Y. - ZHOU, C. - LIU, H.H. - TAN, Y.F. - LIU, F. - QIN, J.G. Bending performance analysis on YBCO cable with high flexibility. In *SUPERCONDUCTIVITY*. SEP 2023, vol. 7. Dostupné na: <https://doi.org/10.1016/j.supcon.2023.100054>, Registrované v: WOS
8. [1.1] KANG, X. - WANG, X.Z. A homogenised anisotropic J-model for accelerating computations of screening current profile in large-scale HTS magnets. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, MAR 1 2023, vol. 36, no. 3. Dostupné na: <https://doi.org/10.1088/1361-6668/acb66f>, Registrované v: WOS
9. [1.1] KOBUN, A. - MASUDA, Y. - MIURA, S. - MIYAZAKI, H. - YOSHIDA, K. - SATO, S. - SASA, H. - IWAKUMA, M. Basic Concept for Uniform Current Distribution in Parallel Conductors by Introducing a Small Number of Transpositions in REBCO Armature Coils. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3242621>, Registrované v: WOS
10. [1.1] LAN, T. - LIAO, H.P. - IFTIKHAR, M.H. - YUAN, W.J. - COLE, A. - ABDOUH, R. - ZHANG, M. Multifilament HTS Cables to Reduce AC Loss: Proof-of-Concept Experiments and Simulation. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, SEP 2023, vol. 33, no. 6. Dostupné na: <https://doi.org/10.1109/TASC.2023.3265436>, Registrované v: WOS
11. [1.1] LEE, J.W. - SONG, J.H. - PARK, I. - LEE, W. - YOO, S.I. Experimental Determination of SmBa₂Cu₃O_{7-δ} Stability Diagram at Low Oxygen Pressures. In *JOURNAL OF PHYSICAL CHEMISTRY C*. ISSN 1932-7447, JAN 26 2023, vol. 127, no. 3, p. 1527-1535. Dostupné na: <https://doi.org/10.1021/acs.jpcc.2c03070>, Registrované v: WOS
12. [1.1] MELLERUD, R. - HARTMANN, C. - KLOP, C.L. - AUSTAD, S. - NOLAND, J.K. Design of a Power-Dense Aviation Motor With a Low-Loss Superconducting Slotted Armature. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, NOV 2023, vol. 33, no. 8. Dostupné na: <https://doi.org/10.1109/TASC.2023.3316192>, Registrované v: WOS

13. [1.1] PAN, X.Y. - WU, W. - YU, X. - LU, L. - GUO, C.J. - ZHAO, Y. Typical electrical, mechanical, electromechanical characteristics of copper-encapsulated REBCO tapes after processing in temperature under 250 °C. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, MAR 1 2023, vol. 36, no. 3. Dostupné na: <https://doi.org/10.1088/1361-6668/acb740>, Registrované v: WOS
14. [1.1] RIES, R. - GöMöRY, F. - MOSAT, M. - KUJOVIC, T. - HINTZE, C. - GIL, P. Effect of off-axis bending on microstructural and transport properties of coated conductor tape. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, JAN 1 2023, vol. 36, no. 1. Dostupné na: <https://doi.org/10.1088/1361-6668/aca6ad>, Registrované v: WOS
15. [1.1] RIES, R. - HLAVÁČ, D. - SOLOVYOV, M. - GöMöRY, F. Induced delamination in REBCO coated-conductor tape by a scratch line and bending. In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*. ISSN 0921-4534, OCT 15 2023, vol. 613. Dostupné na: <https://doi.org/10.1016/j.physc.2023.1354358>, Registrované v: WOS
16. [1.1] RIVA, N. - GRANETZ, R.S. - VIEIRA, R. - HUBBARD, A. - PFEIFFER, A.T. - HARRIS, P. - CHAMBERLAIN, C. - HARTWIG, Z.S. - WATTERSON, A. - ANDERSON, D. - VOLBERG, R. Development of the first non-planar REBCO stellarator coil using VIPER cable. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, OCT 1 2023, vol. 36, no. 10. Dostupné na: <https://doi.org/10.1088/1361-6668/aced9d>, Registrované v: WOS
17. [1.1] ROGERS, J.S. - MAY, G.D. - COATS, C.D. - MCINTYRE, P.M. Dynamics of Current-Sharing Within a REBCO Tape-Stack Cable. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3245999>, Registrované v: WOS
18. [1.1] RUUSKANEN, J. - LYLÄ, M. - HALBACH, A. - TARHASAARI, T. - LAHTINEN, V. - SALMI, T. - RASILO, P. Modeling Eddy Current Losses in HTS Tapes Using Multiharmonic Method. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3242619>, Registrované v: WOS
19. [1.1] SONG, W.J. - BADCOCK, R.A. - LONG, N.J. - JIANG, Z.A. AC Loss in REBCO Coil Windings Wound With Various Cables: Effect of Current Distribution Among the Cable Strands. In *IEEE ACCESS*. ISSN 2169-3536, 2023, vol. 11, p. 102082-102091. Dostupné na: <https://doi.org/10.1109/ACCESS.2023.3315731>, Registrované v: WOS
20. [1.1] WANG, X.L. - SHENG, J. - LI, X.F. - ZHU, J.M. - WANG, L.B.A. - LI, Z.Y. - JIN, Z.J. Study on field-based superconducting cable for magnetic energy storage devices. In *JOURNAL OF ENERGY STORAGE*. ISSN 2352-152X, FEB 2023, vol. 58. Dostupné na: <https://doi.org/10.1016/j.est.2022.106386>, Registrované v: WOS
21. [1.1] XIAO, G.Y. - ZHOU, C. - QIN, J.G. - JIN, H. - LIU, H.H. - ZHAO, C.Y. Critical current degradation behaviour of various REBCO tapes under uniaxial strain. In *FUSION ENGINEERING AND DESIGN*. ISSN 0920-3796, MAY 2023, vol. 190. Dostupné na: <https://doi.org/10.1016/j.fusengdes.2023.113523>, Registrované v: WOS
22. [1.1] YAN, J.T. - WANG, K.Y. - GAO, Y.W. Numerical analysis of the mechanical and electrical properties of CORC cables under torsional loading. In *CRYOGENICS*. ISSN 0011-2275, JAN 2023, vol. 129. Dostupné na: <https://doi.org/10.1016/j.cryogenics.2022.103624>, Registrované v: WOS
23. [1.1] YUAN, S.Z. - DAI, S.T. - MA, T. - TAN, Y.L. Critical Current Analysis of

a Three-Slot Cable by Using of YBCO Tapes. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, MAR 2023, vol. 33, no. 2. Dostupné na: <https://doi.org/10.1109/TASC.2022.3224945>, Registrované v: WOS 24. [1.1] ZHENG, J.X. - CHENG, Y. - LI, M. - LIU, F. - LIU, X.F. - LIU, H.Y. High temperature superconducting CORC cable with variable winding angles for low AC loss and high current carrying SMES system. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acff8b>, Registrované v: WOS 25. [1.1] ZHENG, K.X. - GOU, X.F. Analytical Investigation of Axial Strain of the YBCO Tape on CORC Winding Cables Under Twisting Deformation. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, DEC 2023, vol. 33, no. 9. Dostupné na: <https://doi.org/10.1109/TASC.2023.3327202>, Registrované v: WOS

26. [1.2] LEON, Michael De - DIAZ, Mark Angelo - SHIN, Hyung Seop. Procedural steps for reliability evaluation of ultrasonically welded REBCO coated conductor lap-joints under low cycle fatigue test condition. In Progress in Superconductivity and Cryogenics (PSAC), 2023-12-01, 25, 4, pp. 28-31. ISSN 12293008. Dostupné na: <https://doi.org/10.9714/psac.2023.25.4.028>, Registrované v: SCOPUS

27. [1.2] LUO, Rong Hua - LIU, Jian - YANG, Xin Sheng - ZHAO, Yong. Study on magnetization loss of high temperature superconducting circular helical conductor. In Hejubian Yu Dengliziti Wuli/Nuclear Fusion and Plasma Physics, 2023-12-01, 43, 4, pp. 412-417. ISSN 02546086. Dostupné na: <https://doi.org/10.16568/j.0254-6086.202304007>, Registrované v: SCOPUS

28. [1.2] LYU, Gaotai - TERAQ, Yutaka - OHSAKI, Hiroyuki. Magnetic Field Simulation of HTS Cable based on Flight Mission Profile by Finite Element Method. In 2023 26th International Conference on Electrical Machines and Systems, ICEMS 2023, 2023-01-01, pp. 4837-4841. Dostupné na: <https://doi.org/10.1109/ICEMS59686.2023.10345342>, Registrované v: SCOPUS

ADCA99

GÖMÖRY, Fedor. Improvement of the self-field critical current of a high-Tc superconducting tape by the edge cover from soft ferromagnetic material. In Applied Physics Letters, 2006, vol. 89, 072506. (2005: 4.127 - IF, Q1 - JCR, 3.755 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, SCOPUS). ISSN 0003-6951.

Citácie:

1. [1.1] SEO, K. - HAHN, S. - PARK, I. Hole and dot sensitivity analysis and level set-based topology optimization of superconducting systems operating under critical current density. In STRUCTURAL AND MULTIDISCIPLINARY OPTIMIZATION. ISSN 1615-147X, MAY 2023, vol. 66, no. 5. Dostupné na: <https://doi.org/10.1007/s00158-023-03566-0>, Registrované v: WOS

2. [1.1] SEO, K. - YOON, J. - CHA, J. - PARK, I. - HAHN, S. Design Optimization of HTS Field Coils for High Power Density Motors Based on Continuum Sensitivity Analysis. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3268146>, Registrované v: WOS

3. [1.1] ZHANG, H.Y. - YANG, T.H. - GRILLI, F. - LI, W.X. - TUOHY, P.M. - XIN, Y. A superconducting wireless energiser based on electromechanical energy conversion. In SUPERCONDUCTIVITY. SEP 2023, vol. 7. Dostupné na: <https://doi.org/10.1016/j.supcon.2023.100057>, Registrované v: WOS

ADCA100

GÖMÖRY, Fedor - KLINČOK, Boris. Self-field critical current of a conductor with an elliptical cross-section. In Superconductor Science and Technology, 2006, vol. 19, p. 732-737. (2005: 1.896 - IF, Q1 - JCR, 1.409 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] RIVA, N. - GRANETZ, R.S. - VIEIRA, R. - HUBBARD, A. - PFEIFFER, A.T. - HARRIS, P. - CHAMBERLAIN, C. - HARTWIG, Z.S. - WATTERSON, A. - ANDERSON, D. - VOLBERG, R. Development of the first non-planar REBCO stellarator coil using VIPER cable. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, OCT 1 2023, vol. 36, no. 10. Dostupné na: <https://doi.org/10.1088/1361-6668/aced9d>, Registrované v: WOS

2. [1.1] VIARENGO, S. - BROUWER, L. - FERRACIN, P. - FRESCHI, F. - RIVA, N. - SAVOLDI, L. - WANG, X.R. A New Coupled Electrodynamics T - A and Thermal Model for the Critical Current Characterization of High-Temperature Superconducting Tapes and Cables. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 107548-107561. Dostupné na: <https://doi.org/10.1109/ACCESS.2023.3321194>, Registrované v: WOS

3. [1.1] YUAN, S.Z. - DAI, S.T. - MA, T. - TAN, Y.L. Critical Current Analysis of a Three-Slot Cable by Using of YBCO Tapes. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, MAR 2023, vol. 33, no. 2. Dostupné na: <https://doi.org/10.1109/TASC.2022.3224945>, Registrované v: WOS

ADCA101

GÖMÖRY, Fedor - ŠOUC, Ján - VOJENČIAK, Michal - SEILER, Eugen - KLINČOK, Boris - CEBALLOS, J.M. - PARDO, Enric - SANCHEZ, A. - NAVAU, C. - FARINON, S. - FABBRICATORE, P. Predicting AC loss in practical superconductors. In Superconductor Science and Technology, 2006, vol. 19, p. S60-S66. (2005: 1.896 - IF, Q1 - JCR, 1.409 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.2] PEIXOTO, Inês S.P. - VASCHETTO, Silvio - FERNANDES, João F.P. - DA COSTA BRANCO, Paulo J. - TENCONI, Alberto - CAVAGNINO, Andrea. Modeling Approach for Superconducting AC Windings: Case Study on Axial Flux PM Machines. In 2023 IEEE Energy Conversion Congress and Exposition, ECCE 2023, 2023-01-01, pp. 3790-3795. Dostupné na: <https://doi.org/10.1109/ECCE53617.2023.10362672>, Registrované v: SCOPUS

ADCA102

GÖMÖRY, Fedor - TAKÁCS, Silvester - WERNER, Alfred - SOCHOR, M. Theoretical estimation of electromagnetic loss from the movement of superconducting coil in the W7-X stellarator. In IEEE Transactions on Applied Superconductivity, 2006, vol. 16, p. 123-126. (2005: 1.071 - IF, Q2 - JCR, 0.652 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, SCOPUS).

Citácie:

1. [1.1] SONG, H.H. - JIANG, Z.A. - SONG, W.J. Design Consideration and Conductor Selection of a Low AC Loss HTS REBCO Magnet Carrying High Currents at 20 K and 40 K. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3253072>, Registrované v: WOS

ADCA103

GÖMÖRY, Fedor - ŠOUC, Ján - VOJENČIAK, Michal - KLINČOK, Boris. Phenomenological description of flux pinning in non-uniform high-temperature superconductors in magnetic fields lower than self-field. In Superconductor Science and Technology, 2007, vol. 20, p. S271-S277. (2006: 1.440 - IF, Q2 - JCR, 1.403 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] SANG, M.Z. - LI, X.L. - HAN, P. - ZHANG, Z.H. - HUA, W. Optimal Design of a Compound Magnetic Shielding Based on Fe-Based Nanocrystalline Alloy. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na:

<https://doi.org/10.1109/TASC.2023.3245051>, Registrované v: WOS

2. [1.1] WANG, Y.B. - WANG, Q.S. - ZHU, X.K. - LI, X.L. - HUA, W. *An Improved Critical Current Calculation Method of HTS Field-Excitation Coil for Double-Stator HTS Generator With Stationary Seal*. In *IEEE TRANSACTIONS ON ENERGY CONVERSION*. ISSN 0885-8969, MAR 2023, vol. 38, no. 1, p. 624-635. Dostupné na: <https://doi.org/10.1109/TEC.2022.3200154>, Registrované v: WOS

3. [1.2] De, S., Wang, Q., Li, H., Wang, Y.: *A Critical Current Calculation Method of HTS Excitation Winding Considering the Effect of Self-Field* In *26th International Conference on Electrical Machines and Systems, ICEMS 2023* pp. 3175-3180, Registrované v: SCOPUS

4. [1.2] Sang, M., Li, X., Hao, Y., Zhang, Z., Wang, Y.: *Torque Density Improvement of Double-Stator HTS-Excitation Field-Modulation Machine by Using YBCO Compound Modulation Rotor* In *26th International Conference on Electrical Machines and Systems, ICEMS 2023*, pp. 3398-3401, Registrované v: SCOPUS

ADCA104 GÖMÖRY, Fedor. Characterization of high-temperature superconductors by AC susceptibility measurement : Topical Review. In *Superconductor Science and Technology*, 1997, vol. 10, p. 523-542. (1996: 1.447 - IF, karentované - CCC). (1997 - Current Contents, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] ALGARNI, R.A. - SLIMANI, Y. - HANNACHI, E. - ALMESSIERE, M.A. - ALQAHTANI, T.M. - BEN AZZOUZ, F. *Efficiency of dysprosium oxide nanoparticles on the intergranular coupling and intragranular properties of YBa₂Cu₃O_{7-δ} ceramics*. In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*. ISSN 0957-4522, JUL 2023, vol. 34, no. 20. Dostupné na: <https://doi.org/10.1007/s10854-023-10921-w>, Registrované v: WOS

2. [1.1] BUCHKOV, K. - GALLUZZI, A. - NAZAROVA, E. - POLICHETTI, M. *Complex AC Magnetic Susceptibility as a Tool for Exploring Nonlinear Magnetic Phenomena and Pinning Properties in Superconductors*. In *MATERIALS*. JUL 2023, vol. 16, no. 14. Dostupné na: <https://doi.org/10.3390/ma16144896>, Registrované v: WOS

3. [1.1] SUIB, N.R.M. - ILHAMSYAH, A.B.P. - MUJAINI, M. - MAHAT, A.M. - ABD-SHUKOR, R. *AC Susceptibility and Electrical Properties of BiFeO₃ Nanoparticles Added Bi_{1.6}Pb_{0.4}Sr₂Ca₂Cu₃O₁₀ Superconductor*. In *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM*. ISSN 1557-1939, MAR 2023, vol. 36, no. 3, p. 1003-1010. Dostupné na: <https://doi.org/10.1007/s10948-023-06540-5>, Registrované v: WOS

4. [1.1] TARANTINI, C. - OLOYE, T.A. - HOSSAIN, S.I. - KAMETANI, F. - JIANG, J.Y. - HELLSTROM, E.E. - LARBALESTIER, D.C. *ac susceptibility studies of intra- and intergrain properties of high-J_c Bi-2212 wires*. In *PHYSICAL REVIEW MATERIALS*. ISSN 2475-9953, JAN 9 2023, vol. 7, no. 1. Dostupné na: <https://doi.org/10.1103/PhysRevMaterials.7.014802>, Registrované v: WOS

5. [1.1] WANG, R.S. - PENG, D. - ZONG, L.N. - ZHU, Z.W. - CHEN, X.J. *Full set of superconducting parameters of K₃C₆₀*. In *CARBON*. ISSN 0008-6223, JAN 15 2023, vol. 202, 1, p. 325-335. Dostupné na: <https://doi.org/10.1016/j.carbon.2022.10.076>, Registrované v: WOS

ADCA105 GÖMÖRY, Fedor - LOBOTKA, Peter. Determination of shielding current density in bulk cylindrical samples of high T_c superconductors from AC susceptibility measurement. In *Solid State Communications*, 1988, vol. 66, p. 645-649.

Citácie:

1. [1.2] Hajalilou, A., Tavakoli, M., Parvini, E.: *Magnetic Nanoparticles:*

Synthesis, Characterization, and Applications In Magnetic Nanoparticles: Synthesis, Characterization, and Applications (2022) pp. 1-330, Registrované v: SCOPUS

ADCA106 GÖMÖRY, Fedor - TAKÁCS, Silvester. Irreversibility line and non-linearity in the AC response caused by flux pinning in high Tc superconductors. In *Physica C : superconductivity and its applications*, 1993, vol. 217, p. 297. (1992: 2.044 - IF, karentované - CCC). (1993 - Current Contents, SCOPUS). ISSN 0921-4534.

Citácie:

1. [1.1] HARABOR, A. - ROTARU, P. - HARABOR, N.A. - NOZAR, P. - ROTARU, A. Structural, thermal and superconducting properties of Ag₂O-doped YBa₂Cu₃O_{7-x} composite materials. In *CERAMICS INTERNATIONAL*. ISSN 0272-8842, MAY 1 2023, vol. 49, no. 9, B, p. 14904-14916. Dostupné na: <https://doi.org/10.1016/j.ceramint.2022.08.100>, Registrované v: WOS

2. [1.1] TARANTINI, C. - OLOYE, T.A. - HOSSAIN, S.I. - KAMETANI, F. - JIANG, J.Y. - HELLSTROM, E.E. - LARBALESTIER, D.C. ac susceptibility studies of intra- and intergrain properties of high-Jc Bi-2212 wires. In *PHYSICAL REVIEW MATERIALS*. ISSN 2475-9953, JAN 9 2023, vol. 7, no. 1. Dostupné na: <https://doi.org/10.1103/PhysRevMaterials.7.014802>, Registrované v: WOS

ADCA107 GÖMÖRY, Fedor - VOJENČIAK, Michal - PARDO, Enric - SOLOVYOV, Mykola - ŠOUC, Ján. AC losses in coated conductors. In *Superconductor Science and Technology*, 2010, vol. 23, 034012. (2009: 2.694 - IF, 1.256 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1109/TASC.2005.848234>

Citácie:

1. [1.1] CARVALHO, D.J.G. - DA SILVA, F.F. - FERNANDES, J.F.P. - BRANCO, P.J.D. Finite-element recipes for HTS-coated conductors and HTS tape topologies. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, OCT 1 2023, vol. 36, no. 10. Dostupné na: <https://doi.org/10.1088/1361-6668/acf4c3>, Registrované v: WOS

2. [1.1] LAN, T. - LIAO, H.P. - IFTIKHAR, M.H. - YUAN, W.J. - COLE, A. - ABDOUH, R. - ZHANG, M. Multifilament HTS Cables to Reduce AC Loss: Proof-of-Concept Experiments and Simulation. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, SEP 2023, vol. 33, no. 6. Dostupné na: <https://doi.org/10.1109/TASC.2023.3265436>, Registrované v: WOS

3. [1.1] PRIGOZHIN, L. - SOKOLOVSKY, V. Thin Shell Model of a Coated Conductor With a Ferromagnetic Substrate. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, JUN 2023, vol. 33, no. 4. Dostupné na: <https://doi.org/10.1109/TASC.2023.3249576>, Registrované v: WOS

4. [1.1] ZHOU, Q.X. - CHEN, S. - GUO, Q. - SU, T. - WANG, J.Y. - ZHANG, Y.F. Analysis of AC Loss Characteristics of Stacked High-Temperature Superconducting Tapes. In *JOURNAL OF ELECTRONIC MATERIALS*. ISSN 0361-5235, FEB 2023, vol. 52, no. 2, SI, p. 1154-1168. Dostupné na: <https://doi.org/10.1007/s11664-022-10078-y>, Registrované v: WOS

ADCA108 GÖMÖRY, Fedor - PARDO, Enric - VOJENČIAK, Michal - ŠOUC, Ján. Magnetic flux penetration and transport AC loss in superconductor coated conductor on ferromagnetic substrate. In *IEEE Transactions on Applied Superconductivity*, 2009, vol. 19, p. 3102-3105. (2008: 0.919 - IF, Q3 - JCR, 0.884 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, SCOPUS).

Citácie:

1. [1.1] PRIGOZHIN, L. - SOKOLOVSKY, V. Thin Shell Model of a Coated Conductor With a Ferromagnetic Substrate. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, JUN 2023, vol. 33, no. 4.

- ADCA109 *Dostupné na: <https://doi.org/10.1109/TASC.2023.3249576>, Registrované v: WOS*
GÖMÖRY, Fedor - VOJENČIAK, Michal - PARDO, Enric - ŠOUC, Ján. Magnetic flux penetration and AC loss in a composite superconducting wire with ferromagnetic parts. In *Superconductor Science and Technology*, 2009, vol. 22, 034017. (2008: 1.847 - IF, Q2 - JCR, 1.867 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:*
1. [1.1] *CARVALHO, D.J.G. - DA SILVA, F.F. - FERNANDES, J.F.P. - BRANCO, P.J.D. Finite-element recipes for HTS-coated conductors and HTS tape topologies. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, OCT 1 2023, vol. 36, no. 10. Dostupné na: <https://doi.org/10.1088/1361-6668/acf4c3>, Registrované v: WOS*
 2. [1.1] *MAHAMED, M. - YAZDANI-ASRAMI, M. - BEHJAT, V. - YAZDANI, A. - SHARIFZADEH, M. Impact of Perlator on the cooling liquid flow and hottest point temperature of superconducting windings in HTS transformer. In SUPERCONDUCTIVITY. SEP 2022, vol. 3. Dostupné na: <https://doi.org/10.1016/j.supcon.2022.100021>, Registrované v: WOS*
 3. [1.1] *WANG, L.A. - LIU, J. - SUN, D. - LI, W. - XU, H.G. Current sharing optimization of multilayer high temperature superconducting cable. In PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS. ISSN 0921-4534, AUG 15 2023, vol. 611. Dostupné na: <https://doi.org/10.1016/j.physc.2023.1354304>, Registrované v: WOS*
- ADCA110 GÖMÖRY, Fedor - SHENG, J.. Two methods of AC loss calculation in numerical modelling of superconducting coils. In *Superconductor Science and Technology*, 2017, vol. 30, no. 064005. (2016: 2.878 - IF, Q2 - JCR, 0.967 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/aa66af>
- Citácie:*
1. [1.1] *HIRANO, N. - ONODERA, Y. - MITO, T. - MOTOKI, Y. - KAWAGOE, A. Basic Research on a Magnetic Refrigeration System for Cooling to Liquid Hydrogen Temperature. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3263786>, Registrované v: WOS*
- ADCA111 GÖMÖRY, Fedor** - ŠOUC, Ján - ADÁMEK, Miroslav - GHABELI, Asef - SOLOVYOV, Mykola - VOJENČIAK, Michal. Impact of critical current fluctuations on the performance of a coated conductor tape. In *Superconductor Science and Technology*, 2019, vol. 32, no. 124001. (2018: 2.489 - IF, Q2 - JCR, 0.879 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ab4638> (APVV 16-0418. VEGA 1/0151/17)
- Citácie:*
1. [1.1] *DING, X. - XU, Y. - FENG, T.Y. - YANG, Z.L. - CHEN, G.L. - REN, L. - SHI, J. - ZHOU, D.F. - LI, J.D. - TANG, Y.J. Research on Data-Driven Approaches for Life Prediction of YBCO Tapes Under Overcurrent. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, APR 2023, vol. 33, no. 3. Dostupné na: <https://doi.org/10.1109/TASC.2022.3230798>, Registrované v: WOS*
 2. [1.1] *FENG, Q.M. - PENG, S.L. - LIN, Y. - CHEN, S.W. - PAIDPILLI, M. - GOEL, C. - GALSTYAN, E. - SELVAMANICKAM, V. Reinforcement learning for real-time process control in high-temperature superconductor manufacturing. In INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY. ISSN 0268-3768, NOV 2023, vol. 129, no. 5-6, p. 2215-2225.*

Dostupné na: <https://doi.org/10.1007/s00170-023-12369-y>, Registrované v: WOS 3. [1.1] YANG, Z.L. - XU, Y. - LI, X.H. - YANG, Z.X. - ZHANG, Z.T. - DING, X. - ZHOU, D.F. - PENG, S.H. Research on damage characteristics and microscopic appearance of ReBCO tapes after DC overcurrent. In PHYSICA SCRIPTA. ISSN 0031-8949, AUG 1 2023, vol. 98, no. 8. Dostupné na:

<https://doi.org/10.1088/1402-4896/ace13a>, Registrované v: WOS

ADCA112 GÖMÖRY, Fedor - ŠOUČ, Ján - VOJENČIAK, Michal - SOLOVYOV, Mykola. Round conductor with low AC loss made from high-temperature superconducting tapes. In IEEE Transactions on Applied Superconductivity, 2015, vol. 25, 8201004. (2014: 1.235 - IF, Q3 - JCR, 0.478 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2014.2376189>

Citácie:

1. [1.1] GAO, S.Y. - SHI, S.J. - YANG, X.S. - SHEN, B.Y. - HU, X.B. - ZHU, Y.P. - WU, B.H. - ZHAO, Y. HTS conductor coil by in-situ winding technology for large-scale high-field magnet. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na:

<https://doi.org/10.1088/1361-6668/acff27>, Registrované v: WOS

2. [1.1] LI, Q.Z. - LU, Y.M. - ZHAO, W.W. - ZHOU, D.F. - CAI, C.B. Effects of Winding Angle on Losses of CORC Cable-A Numerical Study. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, MAR 2023, vol. 33, no. 2. Dostupné na: <https://doi.org/10.1109/TASC.2022.3224841>, Registrované v: WOS

ADCA113 GÖMÖRY, Fedor - ŠOUČ, Ján - PARDO, Enric - SEILER, Eugen - SOLOVYOV, Mykola - FROLEK, Lubomír - SKARBA, M. - KONOPKA, P. - PEKARČÍKOVÁ, M. - JANOVEC, J. AC loss in pancake coil made from 12 mm wide ReBCO tape. In IEEE Transactions on Applied Superconductivity, 2013, vol. 23, 5900406. (2012: 1.199 - IF, Q2 - JCR, 0.575 - SJR, karentované - CCC). (2013 - Current Contents, SCOPUS). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2013.2238986>

Citácie:

1. [1.1] SONG, H.H. - JIANG, Z.A. - SONG, W.J. Design Consideration and Conductor Selection of a Low AC Loss HTS REBCO Magnet Carrying High Currents at 20 K and 40 K. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3253072>, Registrované v: WOS

2. [1.1] VARGAS-LLANOS, C.R. - KRÄMER, J. - NOE, M. - GRILLI, F. Design and test of a setup for calorimetric measurements of AC transport losses in HTS racetrack coils. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, APR 1 2023, vol. 36, no. 4. Dostupné na:

<https://doi.org/10.1088/1361-6668/acbba5>, Registrované v: WOS

ADCA114 GÖMÖRY, Fedor - SOLOVYOV, Mykola - ŠOUČ, Ján - NAVAU, C. - CAMPS, J.P. - SANCHEZ, A. Experimental realization of a magnetic cloak. In Science, 2012, vol. 335, p. 1466-1468. (2011: 31.201 - IF, Q1 - JCR, 14.238 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0036-8075. Dostupné na: <https://doi.org/10.1126/science.1218316>

Citácie:

1. [1.1] AHSAN, M. - SUN, F. A Thermal-Electric Cloak via Nonlinear Transformation. In IEEE PHOTONICS JOURNAL. ISSN 1943-0655, DEC 2023, vol. 15, no. 6. Dostupné na: <https://doi.org/10.1109/JPHOT.2023.3327236>, Registrované v: WOS

2. [1.1] ALEKSEEV, G. - LOBANOV, A. Optimization Method for Solving

- Cloaking and Shielding Problems for a 3D Model of Electrostatics. In MATHEMATICS. MAR 2023, vol. 11, no. 6. Dostupné na: <https://doi.org/10.3390/math11061395>, Registrované v: WOS*
3. [1.1] CHEN, M.Y. - SHEN, X.Y. - XU, L. Hydrodynamic metamaterials: Principles, experiments, and applications. In DROPLET. ISSN 2769-2159, OCT 2023, vol. 2, no. 4. Dostupné na: <https://doi.org/10.1002/dro2.79>, Registrované v: WOS
4. [1.1] DAI, G.L. - YANG, F.B. - WANG, J. - XU, L.J. - HUANG, J.P. Diffusive pseudo-conformal mapping: Anisotropy-free transformation thermal media with perfect interface matching. In CHAOS SOLITONS & FRACTALS. ISSN 0960-0779, SEP 2023, vol. 174. Dostupné na: <https://doi.org/10.1016/j.chaos.2023.113849>, Registrované v: WOS
5. [1.1] DÍAZ-FERNÁNDEZ, F.J. - MARTÍ, J. - GARCÍA-MECA, C. Imaging Cloaked Objects: Diffraction Tomography of Realistic Invisibility Devices. In LASER & PHOTONICS REVIEWS. ISSN 1863-8880, FEB 2023, vol. 17, no. 2. Dostupné na: <https://doi.org/10.1002/lpor.202200237>, Registrované v: WOS
6. [1.1] LI, Y.Y. - ZHANG, H.C. - CHEN, Y.J. - ZHANG, J. Transformed thermal meta-devices for manipulating macroscopic thermal fields. In ENERGY REPORTS. ISSN 2352-4847, DEC 2023, vol. 9, p. 3716-3732. Dostupné na: <https://doi.org/10.1016/j.egy.2023.02.050>, Registrované v: WOS
7. [1.1] LIU, Z.C. - CUI, X. - LI, X.B. - CHEN, X.Y. - ZHAO, Z.B. - MENG, W. The transient invisibility cloak in the electro-quasi-static field. In PHYSICA SCRIPTA. ISSN 0031-8949, MAY 1 2023, vol. 98, no. 5. Dostupné na: <https://doi.org/10.1088/1402-4896/acc768>, Registrované v: WOS
8. [1.1] RAZA, M. - AHSAN, M. - ALONAZI, W.B. - NAQVI, S.A. - BRAATEN, B. Design and analysis of arbitrary shaped bifunctional cloaks for multifunctional material composites. In PHYSICA SCRIPTA. ISSN 0031-8949, NOV 1 2023, vol. 98, no. 11. Dostupné na: <https://doi.org/10.1088/1402-4896/acfc6e>, Registrované v: WOS
9. [1.1] WANG, Y.F. - NIU, J.R. - JIN, X. - QIAN, X.M. - XIAO, C.F. - WANG, W.Y. Molecularly Resonant Metamaterials for Broad-Band Electromagnetic Stealth. In ADVANCED SCIENCE. JUL 2023, vol. 10, no. 19. Dostupné na: <https://doi.org/10.1002/advs.202301170>, Registrované v: WOS
10. [1.1] YE, W.K. - HU, L.L. - OU, H.F. - YU, T.X. Mere tension output from spring-linkage-based mechanical metamaterials. In SCIENCE ADVANCES. ISSN 2375-2548, JUL 2023, vol. 9, no. 30. Dostupné na: <https://doi.org/10.1126/sciadv.adh3870>, Registrované v: WOS
11. [1.1] ZHANG, Z.L. - MACMANUS-DRISCOLL, J. - SUO, H.L. - WANG, Q.L. Review of synthesis of high volumetric density, low gravimetric density MgB₂ bulk for potential magnetic field applications. In SUPERCONDUCTIVITY. SEP 2022, vol. 3. Dostupné na: <https://doi.org/10.1016/j.supcon.2022.100015>, Registrované v: WOS
12. [1.1] ZHANG, Z.R. - XU, L.J. - QU, T. - LEI, M. - LIN, Z.K. - OUYANG, X.P. - JIANG, J.H. - HUANG, J.P. Diffusion metamaterials. In NATURE REVIEWS PHYSICS. APR 2023, vol. 5, no. 4, p. 218-235. Dostupné na: <https://doi.org/10.1038/s42254-023-00565-4>, Registrované v: WOS
13. [1.2] GBUR, Gregory J. INVISIBILITY: THE HISTORY AND SCIENCE OF HOW NOT TO BE SEEN. In Invisibility: The History and Science of how not to Beseen, 2023-01-01, pp. 1-280., Registrované v: SCOPUS

ADCA115 GÖMÖRY, Fedor** - ŠOUC, Ján. Stability of DC transport in HTS conductor with local critical current reduction. In Superconductor Science and Technology, 2021, vol. 34, no. 025005. (2020: 3.219 - IF, Q2 - JCR, 1.033 - SJR, Q1 - SJR,

karentované - CCC). (2021 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/abc73e>

Citácie:

1. [1.1] SADEGHI, A. - XU, Z.H. - SONG, W.J. - YAZDANI-ASRAMI, M. *Intelligent Probability Estimation of Quenches Caused by Weak Points in High-Temperature Superconducting Tapes*. In *ENERGIES*. JAN 2023, vol. 16, no. 1. Dostupné na: <https://doi.org/10.3390/en16010193>, Registrované v: WOS

2. [1.1] SHEN, J.Y. - SOGABE, Y. - AMEMIYA, N. *Numerical Analysis of Thermal Runaway in Copper-Plated Multifilament Coated Conductor*. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3244146>, Registrované v: WOS

ADCA116 GÖMÖRY, Fedor** - ŠOUC, Ján. Current-voltage curve of the high temperature superconductor with local reduction of critical current. In *Superconductor Science and Technology*, 2021, vol. 34, no. 12LT01. (2020: 3.219 - IF, Q2 - JCR, 1.033 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ac30ec>

Citácie:

1. [1.1] SADEGHI, A. - XU, Z.H. - SONG, W.J. - YAZDANI-ASRAMI, M. *Intelligent Probability Estimation of Quenches Caused by Weak Points in High-Temperature Superconducting Tapes*. In *ENERGIES*. JAN 2023, vol. 16, no. 1. Dostupné na: <https://doi.org/10.3390/en16010193>, Registrované v: WOS

ADCA117 GÖMÖRY, Fedor** - ŠOUC, Ján - MOŠAŤ, Marek. Formation of hot spots in coated conductors during static and dynamic DC loading. In *IEEE Transactions on Applied Superconductivity*, 2022, vol. 32, no. 5400207. (2021: 1.949 - IF, Q3 - JCR, 0.443 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2022.3147436> (VEGA 1/0205/21. APVV 20-0056)

Citácie:

1. [1.1] PARDO, E. - DADHICH, A. *Electro-Thermal Modelling by Novel Variational Methods: Racetrack Coil in Short-Circuit*. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3252492>, Registrované v: WOS

ADCA118 GÖMÖRY, Fedor**. Probability of premature quenching of HTS coil due to local reduction of critical current. In *IEEE Transactions on Applied Superconductivity*, 2022, vol. 32, no. 4604005. (2021: 1.949 - IF, Q3 - JCR, 0.443 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2022.3171192> (VEGA 1/0205/21)

Citácie:

1. [1.1] SADEGHI, A. - XU, Z.H. - SONG, W.J. - YAZDANI-ASRAMI, M. *Intelligent Probability Estimation of Quenches Caused by Weak Points in High-Temperature Superconducting Tapes*. In *ENERGIES*. JAN 2023, vol. 16, no. 1. Dostupné na: <https://doi.org/10.3390/en16010193>, Registrované v: WOS

ADCA119 GRACHEV, A.A. - MATVEEV, O.V. - MRUCZKIEWICZ, Michal - MOROZOVA, M.A. - BEGININ, E.N. - SHESHUKOVA, S.E. - SADOVNIKOV, A.V.**. Strain-mediated tunability of spin-wave spectra in the adjacent magnonic crystal stripes with piezoelectric layer. In *Applied Physics Letters*, 2021, vol. 118, no. 262405. (2020: 3.791 - IF, Q2 - JCR, 1.182 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0051429>

Citácie:

1. [1.1] GEREVENKOV, P.I. - BESSONOV, V.D. - TEPLOV, V.S. - TELEGIN, A.V. - KALASHNIKOVA, A.M. - KHOKHLOV, N.E. Nonreciprocal collective magnetostatic wave modes in geometrically asymmetric bilayer structure with nonmagnetic spacer. In NANOSCALE. ISSN 2040-3364, APR 6 2023, vol. 15, no. 14, p. 6785-6792. Dostupné na: <https://doi.org/10.1039/d2nr06003e>, Registrované v: WOS

2. [1.1] ZHANG, W. - ZHANG, A.Z. - ZHANG, L.L. - CUI, R.J. - LV, B.H. - XIAO, Z.Y. - LI, D. - QUAN, Z.Y. - XU, X.H. Light modulated magnetism and spin-orbit torque in a heavy metal/ferromagnet heterostructure based on van der Waals-layered ferroelectric materials. In APPLIED PHYSICS LETTERS. ISSN 0003-6951, AUG 28 2023, vol. 123, no. 9. Dostupné na: <https://doi.org/10.1063/5.0160084>, Registrované v: WOS

3. [1.1] ZHAO, J.N. - FENG, L.H. - MA, M.Y. - MA, F.S. Three-terminal magnonic demultiplexer, power divider, and circulator. In JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS. ISSN 0304-8853, NOV 15 2023, vol. 586. Dostupné na: <https://doi.org/10.1016/j.jmmm.2023.171161>, Registrované v: WOS

ADCA120 GRAJCAR, M. - PLECENIK, Andrej - SEIDEL, P. - PFUCH, A. Influence of inelastic effects on differential conductance of a high-Tc superconductor/metal junction. In Physical Review B, 1995, vol. 51, p. 16185-16189.

Citácie:

1. [1.2] BURZO, Emil. Rare Earths-Transition Metals-Boron Compounds: Basic Properties to Technical Applications. In Rare Earths-Transition Metals-Boron Compounds: Basic Properties to Technical Applications, 2023-01-01, pp. 1-539. Dostupné na: <https://doi.org/10.1007/978-3-030-99245-3>, Registrované v: SCOPUS

ADCA121 GRANČIČ, B. - MIKULA, Marian - ROCH, T. - ZEMAN, Petr - SATRAPINSKY, L. - GREGOR, M. - PLECENIK, T. - DOBROČKA, Edmund - HÁJOVSKÁ, Zuzana - MIČUŠÍK, Matej - ŠATKA, A. - ZAHORAN, M. - PLECENIK, Andrej - KÚŠ, P. Effect of Si addition on mechanical properties and high temperature oxidation resistance of Ti-B-Si hard coatings. In Surface and coatings technology, 2014, vol.240, p.48-54. (2013: 2.199 - IF, Q1 - JCR, 1.057 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0257-8972. Dostupné na: <https://doi.org/10.1016/j.surfcoat.2013.12.011>

Citácie:

1. [1.1] BAHR, A. - BECK, O. - GLECHNER, T. - GRIMMER, A. - WOJCIK, T. - KUTROWATZ, P. - RAMM, J. - HUNOLD, O. - KOLOZSVARI, S. - POLCIK, P. - NTEMOU, E. - PRIMETZHOFFER, D. - RIEDL, H. Quaternary diborides-improving the oxidation resistance of TiB₂ +/- z coatings by disilicide alloying. In MATERIALS RESEARCH LETTERS. ISSN 2166-3831, SEP 2 2023, vol. 11, no. 9, p. 733-741. Dostupné na: <https://doi.org/10.1080/21663831.2023.2225554>, Registrované v: WOS

2. [1.1] BAHR, A. - GLECHNER, T. - GRIMMER, A. - WOJCIK, T. - KUTROWATZ, P. - PODSEDNIK, M. - LIMBECK, A. - HELLER, M. - RAMM, J. - HUNOLD, O. - KOLOZSVARI, S. - POLCIK, P. - NTEMOU, E. - PRIMETZHOFFER, D. - FELFER, P. - RIEDL, H. High-temperature oxidation resistance of ternary and quaternary Cr-(Mo)-Si-B₂-z coatings-Influence of Mo addition. In SURFACE & COATINGS TECHNOLOGY. ISSN 0257-8972, SEP 15 2023, vol. 468. Dostupné na: <https://doi.org/10.1016/j.surfcoat.2023.129733>, Registrované v: WOS

3. [1.1] LI, W.H. - GU, W.S. - CHEN, Y.Q. - GONG, J. - PEI, Z.L. - SUN, C. Comparative study on microstructure and properties of nanocrystal and

amorphous W-Si-B coatings. In VACUUM. ISSN 0042-207X, APR 2023, vol. 210. Dostupné na: <https://doi.org/10.1016/j.vacuum.2023.111871>, Registrované v: WOS

4. [1.1] ZAUNER, L. - STEINER, A. - GLECHNER, T. - BAHR, A. - OTT, B. - HAHN, R. - WOJCIK, T. - HUNOLD, O. - RAMM, J. - KOLOZSVARI, S. - POLCIK, P. - FELFER, P. - RIEDL, H. *Role of Si segregation in the structural, mechanical, and compositional evolution of high-temperature oxidation resistant Cr-Si-B₂ thin films. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, MAY 25 2023, vol. 944. Dostupné na:*

<https://doi.org/10.1016/j.jallcom.2023.169203>, Registrované v: WOS

ADCA122 GREGUŠOVÁ, Dagmar - STOKLAS, Roman - ČIČO, Karol - LALINSKÝ, Tibor - KORDOŠ, Peter. AlGaIn/GaN metal-oxide-semiconductor heterostructure field-effect transistors with 4nm thick Al₂O₃ gate oxide. In *Semiconductor Science and Technology*, 2007, vol. 22, p. 947-951. (2006: 1.586 - IF, Q1 - JCR, 1.191 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0268-1242.

Citácie:

1. [1.2] *Langpoklakpam, C., Hsiao, Y.-K., Lin, C.-H., Kuo, H.-C.: Effects of Drain Field Plate Structure and Passivation Dielectrics on Breakdown Voltage of GaN MISHEMT In WiPDA Asia 2023 - IEEE Workshop on Wide Bandgap Power Devices and Applications in Asia, Registrované v: SCOPUS*

ADCA123 GREGUŠOVÁ, Dagmar - GUCMANN, Filip - KÚDELA, Róbert - MÍČUŠÍK, Matej - STOKLAS, Roman - VÁLIK, Lukáš - GREGUŠ, J. - BLAHO, Michal - KORDOŠ, Peter. Properties of InGaAs/GaAs metal-oxide-semiconductor heterostructure field-effect transistors modified by surface treatment. In *Applied Surface Science*, 2017, vol. 395, p. 140-144. (2016: 3.387 - IF, Q1 - JCR, 0.958 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2016.07.019>

Citácie:

1. [1.1] *PANDA, S.R. - PRADHAN, M. - SAHU, T. - PANDA, A.K. Enhancement of electron transport mobility in GaAs/InGaAs asymmetrically doped narrow quantum well pHEMT structure. In PHYSICA SCRIPTA. ISSN 0031-8949, DEC 1 2023, vol. 98, no. 12. Dostupné na: <https://doi.org/10.1088/1402-4896/ad0934>, Registrované v: WOS*

ADCA124 GRILLI, F. - PARDO, Enric. Simulation of ac loss in Roebel coated conductor cables. In *Superconductor Science and Technology*, 2010, vol. 23, 115018. (2009: 2.694 - IF, 1.256 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/23/11/115018>

Citácie:

1. [1.1] *KAWAGOE, A. - YOSHIMO, K. - MOTOKI, Y. - OBANA, T. - TAKAYASU, M. Investigation of Intertape Coupling Losses in YBCO-Stacked Cables. In PLASMA AND FUSION RESEARCH. ISSN 1880-6821, AUG 28 2023, vol. 18. Dostupné na: <https://doi.org/10.1585/pfr.18.2405074>, Registrované v: WOS*

2. [1.1] *UEJIMA, K. - SUN, Y.M. - MIYAGI, D. - GLOWACKI, J. - LONG, N.J. - JIANG, Z.N. Numerical simulation on AC loss in REBCO tapes carrying non-sinusoidal currents. In SUPERCONDUCTIVITY. DEC 2023, vol. 8. Dostupné na: <https://doi.org/10.1016/j.supcon.2023.100063>, Registrované v: WOS*

3. [1.1] *YANG, Y.F. Electric Centrelines and Magnetic Coupling of Superconducting Strands in Assemblies and Cables. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3242931>, Registrované v:*

WOS

ADCA125

GRILLI, F. - SIROIS, F. - ZERMONO, V. - VOJENČIAK, Michal. Self-consistent modeling of the Ic of HTS devices: how accurate do models really need to be? In IEEE Transactions on Applied Superconductivity, 2014, vol. 24, 8000508. (2013: 1.324 - IF, Q2 - JCR, 0.431 - SJR, Q2 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1051-8223.

Citácie:

1. [1.1] CHEN, Y. - CHEN, X.Y. - JIANG, S. - FU, L. - SHEN, B.Y. Modeling of HTS high-current stacked conductors with defective tapes in different locations. In PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS. ISSN 0921-4534, MAR 15 2023, vol. 606. Dostupné na: <https://doi.org/10.1016/j.physc.2023.1354224>, Registrované v: WOS
2. [1.1] INOUE, R. - INOUE, Y. - UEDA, H. - KIM, S. Investigation of HTS Coil Structure Robustness Against Misalignment Between Coils in a Wireless Power Transmission System for Railway Vehicles. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3252490>, Registrované v: WOS
3. [1.1] KANG, X. - TONG, Y.J. - WU, W. - WANG, X.Z. Transient multi-physics behavior of an insert high temperature superconducting no-insulation coil in hybrid superconducting magnets with inductive coupling. In APPLIED MATHEMATICS AND MECHANICS-ENGLISH EDITION. ISSN 0253-4827, FEB 2023, vol. 44, no. 2, p. 255-272. Dostupné na: <https://doi.org/10.1007/s10483-023-2960-6>, Registrované v: WOS
4. [1.1] LI, S.L. - LIU, B.Q. - ZHOU, P.B. - WANG, R.C. - WU, X.Y. - GONG, T.Y. - MA, G.T. Design optimization of a stepped HTS magnet for electrodynamic suspension train. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acf73a>, Registrované v: WOS
5. [1.1] LI, X.H. - TANG, Y.J. - REN, L. - HUANG, H.Y. - SHI, J. - WANG, Z.Z. - YU, P. - LI, Z.H. - WANG, Z. - ZHANG, A.L. - XU, Y. Transient research on distribution networks incorporating superconducting cables utilizing field-circuit coupling method. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, DEC 1 2023, vol. 36, no. 12. Dostupné na: <https://doi.org/10.1088/1361-6668/ad01eb>, Registrované v: WOS
6. [1.1] NGUYEN, L.N. - SHIELDS, N. - ASHWORTH, S. - NGUYEN, D.N. Understanding ac losses in CORC cables of YBCO superconducting tapes by numerical simulations. In JOURNAL OF APPLIED PHYSICS. ISSN 0021-8979, OCT 14 2023, vol. 134, no. 14. Dostupné na: <https://doi.org/10.1063/5.0162439>, Registrované v: WOS
7. [1.1] SEO, K. - HAHN, S. - PARK, I. Hole and dot sensitivity analysis and level set-based topology optimization of superconducting systems operating under critical current density. In STRUCTURAL AND MULTIDISCIPLINARY OPTIMIZATION. ISSN 1615-147X, MAY 2023, vol. 66, no. 5. Dostupné na: <https://doi.org/10.1007/s00158-023-03566-0>, Registrované v: WOS
8. [1.1] VIARENGO, S. - BROUWER, L. - FERRACIN, P. - FRESCHI, F. - RIVA, N. - SAVOLDI, L. - WANG, X.R. A New Coupled Electrodynamics T - A and Thermal Model for the Critical Current Characterization of High-Temperature Superconducting Tapes and Cables. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 107548-107561. Dostupné na: <https://doi.org/10.1109/ACCESS.2023.3321194>, Registrované v: WOS
9. [1.1] WANG, K.S. - WANG, Q.L. - ZHOU, B.Z. - WANG, L. - ZHANG, Z.L. - LIU, J.H. Analysis of charging characteristics of a 500 MHz HTS-LTS series

NMR magnet with an intra-layer no-insulation HTS layer-wound coil structure. In PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS. ISSN 0921-4534, DEC 15 2023, vol. 615. Dostupné na:

<https://doi.org/10.1016/j.physc.2023.1354372>, Registrované v: WOS

10. [1.1] WANG, Y.B. - WANG, Q.S. - ZHU, X.K. - LI, X.L. - HUA, W. An Improved Critical Current Calculation Method of HTS Field-Excitation Coil for Double-Stator HTS Generator With Stationary Seal. In IEEE TRANSACTIONS ON ENERGY CONVERSION. ISSN 0885-8969, MAR 2023, vol. 38, no. 1, p. 624-635. Dostupné na: <https://doi.org/10.1109/TEC.2022.3200154>, Registrované v: WOS

11. [1.1] WANG, Y.S. - WANG, J. - LIU, W. - WANG, J.W. - MENG, Z.Q. - PI, W. Dependence of dynamic resistances in high-temperature semiconducting quasi-isotropic strands on magnitude and orientation of AC magnetic field. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, JAN 1 2023, vol. 36, no. 1. Dostupné na: <https://doi.org/10.1088/1361-6668/aca224>, Registrované v: WOS

12. [1.1] ZHONG, Z.Y. - WU, W. - LU, L. - SHEN, B.Y. - DONG, F.L. - WANG, L.B. - HONG, Z.Y. - JIN, Z.J. Time-variant magnetic field, voltage, and loss of no-insulation (NI) HTS magnet induced by dynamic resistance generation from external AC fields. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, MAY 1 2023, vol. 36, no. 5. Dostupné na:

<https://doi.org/10.1088/1361-6668/acbd6b>, Registrované v: WOS

13. [1.2] Soomro, W.A., Guo, Y., Guo Y., Lu, H., Jin, J., Shen, B., Zhu, J.: Numerical Investigation of High-Temperature Superconducting-Coated-Conductors Subjected to Rotating Magnetic Fields In Solids Volume 3, 2022, Pages 569 - 577, Registrované v: SCOPUS

ADCA126 GRILLI, F. - VOJENČIAK, Michal - KARIO, A. - ZERMONO, V. HTS Roebel cables: self-field critical current and AC losses under simultaneous applications of transport current and magnetic field. In IEEE Transactions on Applied Superconductivity, 2016, vol. 26, art. no. 4803005. (2015: 1.092 - IF, Q3 - JCR, 0.403 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2016.2536652>

Citácie:

1. [1.2] SOOMRO, Wafa Ali - GUO, Youguang - LU, Haiyan - JIN, Jianxun - SHEN, Boyang - ZHU, Jianguo. Numerical Investigation of High-Temperature Superconducting-Coated-Conductors Subjected to Rotating Magnetic Fields. In Solids, 2022-12-01, 3, 4, pp. 569-577. Dostupné na:

<https://doi.org/10.3390/solids3040036>, Registrované v: SCOPUS

ADCA127 GRILLI, F. - PARDO, Enric - STENVALL, A. - NGUYEN, D.N. - YUAN, W. - GÖMÖRY, Fedor. Computation of losses in HTS under the action of varying magnetic fields and currents. In IEEE Transactions on Applied Superconductivity, 2014, vol. 24, p. 8200433. (2013: 1.324 - IF, Q2 - JCR, 0.431 - SJR, Q2 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2013.2259827>

Citácie:

1. [1.1] CARVALHO, D.J.G. - DA SILVA, F.F. - FERNANDES, J.F.P. - BRANCO, P.J.D. Finite-element recipes for HTS-coated conductors and HTS tape topologies. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, OCT 1 2023, vol. 36, no. 10. Dostupné na: <https://doi.org/10.1088/1361-6668/acf4c3>, Registrované v: WOS

2. [1.1] CHEN, H.Y. - ZHANG, H.Y. AC loss mitigation for high temperature

- superconducting coils in wireless power transfer. In SUPERCONDUCTIVITY. JUN 2023, vol. 6. Dostupné na: <https://doi.org/10.1016/j.supcon.2023.100044>, Registrované v: WOS*
3. [1.1] CHEN, Y. - CHEN, X.Y. - JIANG, S. - FU, L. - SHEN, B.Y. Modeling of HTS high-current stacked conductors with defective tapes in different locations. In PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS. ISSN 0921-4534, MAR 15 2023, vol. 606. Dostupné na: <https://doi.org/10.1016/j.physc.2023.1354224>, Registrované v: WOS
4. [1.1] CHOW, C.C.T. - AINSLIE, M.D. - CHAU, K.T. High temperature superconducting rotating electrical machines: An overview. In ENERGY REPORTS. ISSN 2352-4847, DEC 2023, vol. 9, p. 1124-1156. Dostupné na: <https://doi.org/10.1016/j.egy.2022.11.173>, Registrované v: WOS
5. [1.1] HAI, Q.Y. - CHEN, H.G. - SUN, C. - CHEN, D. - QI, Y. - SHI, M. - ZHAO, X.P. Green-Light GaN p-n Junction Luminescent Particles Enhance the Superconducting Properties of B(P)SCCO Smart Meta-Superconductors (SMSCs). In NANOMATERIALS. DEC 2023, vol. 13, no. 23. Dostupné na: <https://doi.org/10.3390/nano13233029>, Registrované v: WOS
6. [1.1] LAN, T. - LIAO, H.P. - IFTIKHAR, M.H. - YUAN, W.J. - COLE, A. - ABDOUH, R. - ZHANG, M. Multifilament HTS Cables to Reduce AC Loss: Proof-of-Concept Experiments and Simulation. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, SEP 2023, vol. 33, no. 6. Dostupné na: <https://doi.org/10.1109/TASC.2023.3265436>, Registrované v: WOS
7. [1.1] LI, X.F. - LI, S. - CHEN, D.X. Field and current driven versions of Brandt method for calculating transport ac loss of superconducting cylinder and strip. In SUPERCONDUCTIVITY. SEP 2023, vol. 7. Dostupné na: <https://doi.org/10.1016/j.supcon.2023.100052>, Registrované v: WOS
8. [1.1] MELLERUD, R. - HARTMANN, C. - KLOP, C.L. - AUSTAD, S. - NOLAND, J.K. Design of a Power-Dense Aviation Motor With a Low-Loss Superconducting Slotted Armature. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, NOV 2023, vol. 33, no. 8. Dostupné na: <https://doi.org/10.1109/TASC.2023.3316192>, Registrované v: WOS
9. [1.1] MESSE, C. - RIVA, N. - VIARENGO, S. - GIARD, G. - SIROIS, F. BELFEM: a special purpose finite element code for the magnetodynamic modeling of high-temperature superconducting tapes. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acf7f9>, Registrované v: WOS
10. [1.1] MOHEBUJJAMAN, M. - SHIRAIWA, S. - LABOMBARD, B. - WRIGHT, J.C. - UPPALAPATI, K.K. Scalability analysis of direct and iterative solvers used to model charging of superconducting pancake solenoids. In ENGINEERING RESEARCH EXPRESS. ISSN 2631-8695, MAR 1 2023, vol. 5, no. 1. Dostupné na: <https://doi.org/10.1088/2631-8695/acbd85>, Registrované v: WOS
11. [1.1] OLIVEIRA, R. - PEI, X.Z. - NILSSON, E. - ROUQUETTE, J.F. - RIVENC, J. - YBANEZ, L. - ZENG, X.W. Performance Analysis of Resistive Superconducting Fault Current Limiter Using LN₂ and GHe Cooling. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3237642>, Registrované v: WOS
12. [1.1] SOOMRO, W.A. - GUO, Y.G. - LU, H.Y. - JIN, J.X. - SHEN, B.Y. - ZHU, J.G. Numerical Investigation of High-Temperature Superconducting-Coated-Conductors Subjected to Rotating Magnetic Fields. In SOLIDS. DEC 2022, vol. 3, no. 4, p. 569-577. Dostupné na: <https://doi.org/10.3390/solids3040036>, Registrované v: WOS

13. [1.1] SUN, Y.M. - YOU, S.R. - BADCOCK, R.A. - LONG, N.J. - JIANG, Z.A. *Dynamic resistance and total loss in small REBCO pancake and racetrack coils carrying DC currents under an AC magnetic field.* In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, APR 1 2023, vol. 36, no. 4. Dostupné na: <https://doi.org/10.1088/1361-6668/acb4c0>, Registrované v: WOS
14. [1.1] TER HARMSEL, J. - OTTEN, S. - DHALLE, M. - TEN KATE, H. *Magnetization loss and transport current loss in ReBCO racetrack coils carrying stationary current in time-varying magnetic field at 4.2 K.* In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, JAN 1 2023, vol. 36, no. 1. Dostupné na: <https://doi.org/10.1088/1361-6668/aca83d>, Registrované v: WOS
15. [1.1] WANG, L.A. - LIU, J. - SUN, D. - LI, W. - XU, H.G. *Current sharing optimization of multilayer high temperature superconducting cable.* In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*. ISSN 0921-4534, AUG 15 2023, vol. 611. Dostupné na: <https://doi.org/10.1016/j.physc.2023.1354304>, Registrované v: WOS
16. [1.1] WANG, Q. - ZHANG, H.Y. - HAO, L.N. - HU, J.T. - WEI, H.G.N. - PATEL, I. - SHAH, A.D. - COOMBS, T. *Magnetisation and demagnetisation of trapped field stacks in a superconducting machine for electric aircraft.* In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acfcdf>, Registrované v: WOS
17. [1.1] WANG, S.J. - YONG, H.D. - ZHOU, Y.H. *Numerical calculations of high temperature superconductors with the J-A formulation.* In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acfbbe>, Registrované v: WOS
18. [1.1] YU, L.Y. - NIU, M.D. - YONG, H.D. - ZHOU, Y.H. *Electromagnetic-mechanical coupling analysis of high-temperature superconducting racetrack coil.* In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acf68c>, Registrované v: WOS
19. [1.1] ZAPPATORE, A. - DE MARZI, G. - UGLIETTI, D. *Impact of Hysteresis Losses in Hybrid (HTS-LTS) Coils for Fusion Applications.* In *IEEE ACCESS*. ISSN 2169-3536, 2023, vol. 11, p. 100465-100478. Dostupné na: <https://doi.org/10.1109/ACCESS.2023.3315600>, Registrované v: WOS
20. [1.1] ZHAI, Y. - MA, G.T. - LI, J. - ZHOU, P.B. - REN, G. - ZHOU, Y.Y. *Numerical study for the impact of current sharing effect upon dynamic behaviour of DC-carrying HTS coils under alternating magnetic fields.* In *CRYOGENICS*. ISSN 0011-2275, OCT 2023, vol. 135. Dostupné na: <https://doi.org/10.1016/j.cryogenics.2023.103730>, Registrované v: WOS
21. [1.2] ENACHE, Dan - DUMITRU, George - DOBRIN, Ion - GUȚU, Mihai. *A Measuring System for HTS Wires and Coils Properties at Low Temperatures.* In *EEA Electrotehnica, Electronica, Automatica*, 2023-01-01, 71, 3, pp. 3-11. ISSN 15825175. Dostupné na: <https://doi.org/10.46904/eea.23.71.3.1108001>, Registrované v: SCOPUS
22. [1.2] GOVOR, Vladislav M. - KALIMOV, Alexander G. - KOBZAR, Evgenii N. *Modeling of the Magnetic Field and Current Density Distributions in HTS SMES Systems.* In *Proceedings of the Seminar on Microelectronics, Dielectrics and Plasmas, Theory and Practical Applications*, MDP 2023, 2023-01-01, pp. 47-51. Dostupné na: <https://doi.org/10.1109/MDP60436.2023.10424310>, Registrované v: SCOPUS

- GOLDACKER, W. AC losses of pancake coils made of Roebel cable. In IEEE Transactions on Applied Superconductivity, 2013, vol. 23, 5900205. (2012: 1.199 - IF, Q2 - JCR, 0.575 - SJR, karentované - CCC). (2013 - Current Contents, SCOPUS). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2013.2238987>

Citácie:

1. [1.1] ATTAR, H. - HEKMATI, A. - MORADNOURI, A. - MIRGHAFORIAN, R. An Accurate Method for Calculation of Self-Inductance of HTS Coils With and Without Turn-to-Turn Insulation. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, OCT 2023, vol. 33, no. 7. Dostupné na: <https://doi.org/10.1109/TASC.2023.3283271>, Registrované v: WOS

2. [1.1] SONG, H.H. - JIANG, Z.A. - SONG, W.J. Design Consideration and Conductor Selection of a Low AC Loss HTS REBCO Magnet Carrying High Currents at 20 K and 40 K. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3253072>, Registrované v: WOS

ADCA129 GRILLI, F.** - PARDO, Enric - MORANDI, A. - GÖMÖRY, Fedor - SOLOVYOV, Mykola - ZERMONO, V. - BRAMBILLA, R. - BENKEL, T. - RIVA, N. Electromagnetic modeling of superconductors with commercial software: possibilities with two vector potential-based formulations. In IEEE Transactions on Applied Superconductivity, 2021, vol. 31, no. 5900109. (2020: 1.704 - IF, Q3 - JCR, 0.467 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2020.3013028>

Citácie:

1. [1.1] KOSHY, B. - SUN, Y.M. - BADCOCK, R.A. - MALLET, B.P.P. - JIANG, Z.A. Numerical Analysis of Dynamic Resistance and Total Loss in REBCO-Coated Conductors at Low Temperature Under High Perpendicular AC Magnetic Fields. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, SEP 2023, vol. 33, no. 6. Dostupné na: <https://doi.org/10.1109/TASC.2023.3274415>, Registrované v: WOS

2. [1.1] SOOMRO, W.A. - GUO, Y.G. - LU, H.Y. - JIN, J.X. - SHEN, B.Y. - ZHU, J.G. Numerical Investigation of High-Temperature Superconducting-Coated-Conductors Subjected to Rotating Magnetic Fields. In SOLIDS. DEC 2022, vol. 3, no. 4, p. 569-577. Dostupné na: <https://doi.org/10.3390/solids3040036>, Registrované v: WOS

3. [1.1] ZHAO, Z.K. - WANG, Y.S. - GAO, Y.B. - YANG, Z. - LI, Z.Y. - PI, W. Mechanical characterization of a 10-MJ HTS SMES magnet wound by quasi-isotropic strands and directly stacked tape conductors. In SUPERCONDUCTIVITY. MAR 2023, vol. 5. Dostupné na: <https://doi.org/10.1016/j.supcon.2023.100042>, Registrované v: WOS

ADCA130 GRIVEL, J.C. - PINHOLT, R. - ANDERSEN, H.Hellmuth - KOVÁČ, Pavol - HUŠEK, Imrich - HOMEYER, J. In situ investigations of phase transformations in Fe-sheathed MgB₂ wires. In Superconductor Science and Technology, 2006, vol. 19, p. 96-101. (2005: 1.896 - IF, Q1 - JCR, 1.409 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] MAEDA, M. - MATSUMOTO, A. - NISHIJIMA, G. - HEO, Y.U. - HAHN, S. - LEE, S. - CHOI, S. - KIM, J.H. Performance of MgB₂ superconducting wire fabricated with non- identical Mg particles. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, SEP 5 2023, vol. 954. Dostupné na: <https://doi.org/10.1016/j.jallcom.2023.170148>, Registrované v: WOS

ADCA131 GUCMANN, Filip - KÚDELA, Róbert - ROSOVÁ, Alica - DOBROČKA, Edmund

- MIČUŠÍK, Matej - GREGUŠOVÁ, Dagmar. Optimalization of UV-assisted wet oxidation of GaAs. In Journal of Vacuum Science and Technology B. Microelectronics and Nanometer Structures, 2017, vol. 36, no. 01A116. (2016: 1.573 - IF, Q3 - JCR, 0.595 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1071-1023. Dostupné na: <https://doi.org/10.1116/1.4974196>

Citácie:

1. [1.1] WANG, J.J. - JI, X.Q. - YAN, Z.Y. - YAN, X. - LU, C. - LI, Z.T. - QI, S. - LI, S. - QI, X.H. - ZHANG, S. - HU, S.R. - LI, P.G. High sensitivity Ga₂O₃ ultraviolet photodetector by one-step thermal oxidation of p-GaN films. In MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING. ISSN 1369-8001, JUN 1 2023, vol. 159. Dostupné na: <https://doi.org/10.1016/j.mssp.2023.107372>, Registrované v: WOS

ADCA132

GUCMANN, Filip** - POMEROY, J.W. - KUBALL, M. Scanning thermal microscopy for accurate nanoscale device thermography. In Nano Today, 2021, vol. 39, no. 101206. (2020: 20.722 - IF, Q1 - JCR, 5.586 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1748-0132. Dostupné na: <https://doi.org/10.1016/j.nantod.2021.101206>

Citácie:

1. [1.1] ALIKIN, D. - ZAKHARCHUK, K. - XIE, W.J. - ROMANYUK, K. - PEREIRA, M.J. - ARIAS-SERRANO, B.I. - WEIDENKAFF, A. - KHOLKIN, A. - KOVALEVSKY, A.V. - TSELEV, A. Quantitative Characterization of Local Thermal Properties in Thermoelectric Ceramics Using "Jumping-Mode" Scanning Thermal Microscopy. In SMALL METHODS. ISSN 2366-9608, APR 2023, vol. 7, no. 4. Dostupné na: <https://doi.org/10.1002/smt.202201516>, Registrované v: WOS

2. [1.1] LIU, Z.M. - CHEN, N. - LI, S.Y. - LIU, Y. - SHANG, Y. - CHEN, Z.Y. - PANG, F.F. - WANG, T.Y. Modeling and calibration of micro/nano FBG temperature probe for scanning probe microscopy. In OPTICS EXPRESS. ISSN 1094-4087, JUN 5 2023, vol. 31, no. 12, p. 19453-19462. Dostupné na: <https://doi.org/10.1364/OE.491821>, Registrované v: WOS

3. [1.1] MORADI, A. - SZEWCZYK, P.K. - STACHEWICZ, U. Bridging a Gap in Thermal Conductivity and Heat Transfer in Hybrid Fibers and Yarns via Polyimide and Silicon Nitride Composites. In SMALL. ISSN 1613-6810, DEC 2023, vol. 19, no. 52. Dostupné na: <https://doi.org/10.1002/sml.202305104>, Registrované v: WOS

4. [1.1] NAM, K. - KIM, H. - PARK, W. - AHN, J.S. - CHOI, S. Probing the optical near-field of plasmonic nano structure using scanning thermal microscopy. In NANOTECHNOLOGY. ISSN 0957-4484, MAR 5 2023, vol. 34, no. 10. Dostupné na: <https://doi.org/10.1088/1361-6528/aca90f>, Registrované v: WOS

5. [1.1] OHAYON-LAVI, A. - SHACHAR-MICHAELY, G. - KORONIO, E. - KELLER, Y. - YALON, E. - ZISKIND, G. - REGEV, O. Graphene-based conformal coating for heat dissipation on printed circuit boards. In APPLIED THERMAL ENGINEERING. ISSN 1359-4311, JUL 5 2023, vol. 229. Dostupné na: <https://doi.org/10.1016/j.applthermaleng.2023.120562>, Registrované v: WOS

6. [1.1] ZHANG, Q.Q. - ZHU, W. - ZHOU, J. - DENG, Y. Realizing the Accurate Measurements of Thermal Conductivity over a Wide Range by Scanning Thermal Microscopy Combined with Quantitative Prediction of Thermal Contact Resistance. In SMALL. ISSN 1613-6810, AUG 9 2023, vol. 19, no. 32. Dostupné na: <https://doi.org/10.1002/sml.202300968>, Registrované v: WOS

7. [1.2] LI, Shaoying - CHEN, Na - LIU, Zhenmin - LIU, Shupeng - SHANG, Yana - LIU, Yong - CHEN, Zhenyi - PANG, Fufei - WANG, Tingyun. Temperature

measurement and scanning thermal imaging in micro-nano region with near-field optical fiber probe. In Proceedings 28th International Conference on Optical Fiber Sensors, OFS 2023, 2023-01-01, pp. Dostupné na:

<https://doi.org/10.1364/OFS.2023.W6.2>, Registrované v: SCOPUS

8. [1.2] LIU, Zhenmin - CHEN, Na - LI, Shaoying - LIU, Yong - SHANG, Yana - CHEN, Zhenyi - PANG, Fufei - WANG, Tingyun. Ultrafast Near Field Temperature Measurement Method Based on Micro-nano FBG Probe with TS-DFT. In Proceedings 28th International Conference on Optical Fiber Sensors, OFS 2023, 2023-01-01, pp. Dostupné na: <https://doi.org/10.1364/OFS.2023.w2.3>, Registrované v: SCOPUS

ADCA133 GUCMANN, Filip** - NÁDAŽDY, Peter - HUŠEKOVÁ, Kristína - DOBROČKA, Edmund - PRIESOL, J. - EGYENES, Fridrich - ŠATKA, A. - ROSOVÁ, Alica - ŤAPAJNA, Milan. Thermal stability of rhombohedral α - and monoclinic β -Ga₂O₃ grown on sapphire by liquid-injection MOCVD. In Materials science in semiconductor processing, 2023, vol. 156, no. 107289. (2022: 4.1 - IF, Q2 - JCR, 0.688 - SJR, Q1 - SJR). ISSN 1369-8001. Dostupné na: <https://doi.org/10.1016/j.mssp.2022.107289>

Citácie:

1. [1.1] HE, H. - ZHOU, X.L. - LIU, Y.C. - LIU, W.J. - YANG, J.N. - ZHANG, H. - XIE, G.R. - LIU, W.J. Large-Scale β -Ga₂O₃ Trench MOS-Type Schottky Barrier Diodes with 1.02 Ideality Factor and 0.72 V Turn-On Voltage. In ELECTRONICS. OCT 2023, vol. 12, no. 20. Dostupné na:

<https://doi.org/10.3390/electronics12204315>, Registrované v: WOS

2. [1.1] JEWEL, M.U. - HASAN, S. - CRITTENDEN, S.R. - AVRUTIN, V. - ÖZGÜE, Ü - MORKOÇ, H. - AHMAD, I. Phase Stabilized MOCVD Growth of β -Ga₂O₃ Using SiO_x on c-Plane Sapphire and AlN/Sapphire Template. In PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE. ISSN 1862-6300, JUN 2023, vol. 220, no. 11. Dostupné na:

<https://doi.org/10.1002/pssa.202300036>, Registrované v: WOS

ADCA134 HAESSLER, W. - KOVÁČ, Pavoľ - EISTERER, M. - ABRAHAMSEN, A. - HERRMANN, M. - RODIG, C. - NENKOV, K.A. - HOLZAPFEL, B. - MELIŠEK, Tíbor - KULICH, Miloslav - ZIMMERMANN, M.V. - BEDNARCIK, J. - GRIVEL, J.C. Anisotropy of the critical current in MgB₂ tapes made of high energy milled precursor powder. In Superconductor Science and Technology, 2010, vol. 23, art. no. 065011. (2009: 2.694 - IF, 1.256 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/23/6/065011>

Citácie:

1. [1.1] MAEDA, M. - CHOI, J.H. - KNOTT, J.C. - KIM, J.H. - HAHN, G. - KANG, H. - HAHN, S. - CHOI, S. Disorder anisotropy of layered structure in multi-band MgB₂ superconducting materials with high critical current performance. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, FEB 10 2023, vol. 934. Dostupné na:

<https://doi.org/10.1016/j.jallcom.2022.167873>, Registrované v: WOS

2. [1.1] MAEDA, M. - MATSUMOTO, A. - NISHIJIMA, G. - HEO, Y.U. - HAHN, S. - LEE, S. - CHOI, S. - KIM, J.H. Performance of MgB₂ superconducting wire fabricated with non- identical Mg particles. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, SEP 5 2023, vol. 954. Dostupné na:

<https://doi.org/10.1016/j.jallcom.2023.170148>, Registrované v: WOS

ADCA135 HAIGH, S. - KOVÁČ, Pavoľ - PRIKHNA, T.A. - SAVCHUK, Ya.M. - KILBURN, M.R. - SALTER, C.J. - HUTCHINSON, J. - GROVENOR, C.R.M. Chemical interactions in Ti doped MgB₂ superconducting bulk samples and wires. In

Superconductor Science and Technology, 2005, vol. 18, p. 1190-1196. (2004: 1.556 - IF, karentované - CCC). (2005 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] DA SILVA, L.B.S. - FERREIRA, P.H.O. - RODRIGUES, D. Study of NbB₂ Addition on the Superconducting Behavior of MgB₂ Bulks. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3258910>, Registrované v: WOS

ADCA136 HANZEL, Ondrej** - LENČEŠ, Zoltán - KIM, Young-Wook - FEDOR, Ján - ŠAJGALÍK, Pavol. Highly electrically and thermally conductive silicon carbide-graphene composites with yttria and scandia additives. In Journal of the European Ceramic Society, 2020, vol. 40, no. 2, p. 241-250. (2019: 4.495 - IF, Q1 - JCR, 1.164 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0955-2219. Dostupné na: <https://doi.org/10.1016/j.jeurceramsoc.2019.10.001>

Citácie:

1. [1.1] DONG, B. - YU, C. - DENG, C.J. - ZHU, H.X. - DING, J. - TANG, H. Research progress in thermal conductivity of SiC ceramics. In CAILIAO GONGCHENG-JOURNAL OF MATERIALS ENGINEERING. ISSN 1001-4381, JAN 20 2023, vol. 51, no. 1, p. 64-75. Dostupné na:

<https://doi.org/10.11868/j.issn.1001-4381.2021.001040>, Registrované v: WOS

2. [1.1] LI, H.W. - ZHAO, Y.P. - CHEN, G.Q. - LI, M.H. - WEI, Z.F. - FU, X.S. - ZHOU, W.L. SiC-based ceramics with remarkable electrical conductivity prepared by ultrafast high-temperature sintering. In JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. ISSN 0955-2219, MAY 2023, vol. 43, no. 5, p. 2269-2274. Dostupné na: <https://doi.org/10.1016/j.jeurceramsoc.2022.12.025>, Registrované v: WOS

ADCA137 HARTMANOVÁ, Mária - LE, M.T. - JERGEL, Matej - ŠMATKO, Vasilij - KUNDRACIK, F. Structure and electrical conductivity of multicomponent metal oxides having scheelite structure. In Russian Journal of Electrochemistry, 2009, vol. 45, no. 6, p. 621-629. (2008: 0.431 - IF, Q4 - JCR, 0.218 - SJR, Q4 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 1023-1935. Dostupné na: <https://doi.org/10.1134/S1023193509060019>

Citácie:

1. [1.2] MIKHAYLOVSKAYA, Zoya A. - KLIMOVA, Alexandra V. - PETROVA, Sofia A. - PANKRUSHINA, Elizaveta A. - BUYANOVA, Elena S. Comparative characteristics of Bi- and La- doped (Ca/Sr)MoO₄-based materials with a defect scheelite-type structure. In Chimica Techno Acta, 2023-01-01, 10, 4, pp. ISSN 24095613. Dostupné na: <https://doi.org/10.15826/chimtech.2023.10.4.11>, Registrované v: SCOPUS

ADCA138 HARTMANOVÁ, Mária - THURZO, Ilja - JERGEL, Matej - BARTOŠ, J. - KADLEC, K. - ŽELEZNÝ, V. - TUNEGA, Daniel - KUNDRACIK, F. - CHROMIK, Štefan - BRUNEL, M. Characterization of yttria-stabilized zirconia thin films deposited by electron beam evaporation on silicon substrates. In Journal of Materials Science, 1998, vol. 33, no. 4, p. 969-975. (1997: 0.670 - IF). Dostupné na: <https://doi.org/10.1023/A:1004359727737>

Citácie:

1. [1.1] YU, Zhuoxiang - QI, Tao - GE, Min - ZHANG, Weigang - HU, Zihao - SUN, Xiaoming. Microstructures and phase compositions of Y₂O₃-ZrO₂-HfO₂ solid solutions. In CERAMICS INTERNATIONAL, 2023, vol. 49, no. 15, pp. 26119-26128. ISSN 0272-8842. Dostupné na: <https://doi.org/10.1016/j.ceramint.2023.05.168>, Registrované v:

WOS

ADCA139 HASENÖHRL, Stanislav - NOVÁK, Jozef - VÁVRA, Ivo - ŠATKA, A. Material properties of graded composition $\text{In}_x\text{Ga}_{1-x}\text{P}$ buffer layers grown on GaP by organometallic vapor phase epitaxy. In *Journal of Crystal Growth*, 2004, vol. 272, p. 633-641. ISSN 0022-0248.

Citácie:

1. [1.1] WANG, J.X. - WEI, X. - XUAN, J.Z. - ZHANG, Y. - FAN, J.B. - NI, L. - YANG, Y. - LIU, J. - TIAN, Y. - MA, S. - DUAN, L. Theoretical design of a photodetector based on a two-dimensional SnSe_2/GaP type-II heterostructure. In *CRYSTENGCOMM. APR 11 2023*, vol. 25, no. 15, p. 2326-2338. Dostupné na: <https://doi.org/10.1039/d2ce01704k>, Registrované v: WOS

ADCA140 HASHIZUME, T.** - NISHIGUCHI, K. - KANEKI, S. - KUZMÍK, Ján - YATABE, Z. State of the art on gate insulation and surface passivation for GaN-based power HEMTs. In *Materials science in semiconductor processing*, 2018, vol. 78, p. 85-95. (2017: 2.593 - IF, Q2 - JCR, 0.634 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1369-8001. Dostupné na: <https://doi.org/10.1016/j.mssp.2017.09.028>

Citácie:

1. [1.1] ABDULLAH, M.F. - HUSSIN, M.R.M. - ISMAL, M.A. - SABLI, S.K.W. Chip-level thermal management in GaN HEMT: Critical review on recent patents and inventions. In *MICROELECTRONIC ENGINEERING. ISSN 0167-9317, MAR 15 2023*, vol. 273. Dostupné na: <https://doi.org/10.1016/j.mee.2023.111958>, Registrované v: WOS

2. [1.1] BARATOV, A. - IGARASHI, T. - ISHIGURO, M. - MAEDA, S. - TERAI, S. - KUZUHARA, M. - ASUBAR, J.T. Low thermal budget V/Al/Mo/Au ohmic contacts for improved performance of AlGaIn/GaN MIS-HEMTs. In *JAPANESE JOURNAL OF APPLIED PHYSICS. ISSN 0021-4922, NOV 1 2023*, vol. 62, no. 11. Dostupné na: <https://doi.org/10.35848/1347-4065/ad057a>, Registrované v: WOS

3. [1.1] BENJELLOUN, M. - ZAIDAN, Z.H. - SOLTANI, A. - GOGNEAU, N. - MORRIS, D. - HARMAND, J.C. - MAHER, H.M. Design, Simulation and Optimization of an Enhanced Vertical GaN Nanowire Transistor on Silicon Substrate for Power Electronic Applications. In *IEEE ACCESS. ISSN 2169-3536, 2023*, vol. 11, p. 40249-40257. Dostupné na: <https://doi.org/10.1109/ACCESS.2023.3248630>, Registrované v: WOS

4. [1.1] DENG, K.X. - HUANG, S. - WANG, X.H. - JIANG, Q.M. - YIN, H.B. - FAN, J. - JING, G.J. - WEI, K. - ZHENG, Y.K. - SHI, J.Y. - LIU, X.Y. Insight into the suppression mechanism of bulk traps in Al_2O_3 gate dielectric and its effect on threshold voltage instability in $\text{Al}_2\text{O}_3/\text{AlGaIn}/\text{GaN}$ metal-oxide-semiconductor high electron mobility transistors. In *APPLIED SURFACE SCIENCE. ISSN 0169-4332, NOV 30 2023*, vol. 638. Dostupné na: <https://doi.org/10.1016/j.apsusc.2023.158000>, Registrované v: WOS

5. [1.1] DING, X.Y. - SONG, L. - YU, G.H. - CAI, Y. - SUN, Y.H. - ZHANG, B.L. - DU, Z.K. - ZENG, Z.M. - ZHANG, X.P. - ZHANG, B.S. Gate leakage mechanisms of the AlGaIn/GaN HEMT with fluorinated graphene passivation. In *MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING. ISSN 1369-8001, AUG 1 2023*, vol. 162. Dostupné na: <https://doi.org/10.1016/j.mssp.2023.107502>, Registrované v: WOS

6. [1.1] ELANGO VAN, S. - CHENG, S.E. - JANG, W.Y. - CHANG, E.Y. - KUO, H.C. Paralleled multi-GaN MIS-HEMTs integrated cascode switch for power electronic applications. In *SEMICONDUCTOR SCIENCE AND TECHNOLOGY. ISSN 0268-1242, JUL 1 2023*, vol. 38, no. 7. Dostupné na:

- <https://doi.org/10.1088/1361-6641/acd718>, Registrované v: WOS
7. [1.1] HASAN, S. - JEWEL, M.U. - CRITTENDEN, S.R. - LEE, D. - AVRUTIN, V. - ÖZGÜR, Ü - MORKOÇ, H. - AHMAD, I. Gate leakage current and threshold voltage characteristics of β -Ga₂O₃ passivated AlGa_N/Ga_N based heterojunction field effect transistor. In *GALLIUM NITRIDE MATERIALS AND DEVICES XVIII*. ISSN 0277-786X, 2023, vol. 12421. Dostupné na: <https://doi.org/10.1117/12.2668236>, Registrované v: WOS
8. [1.1] HASAN, S. - JEWEL, M.U. - CRITTENDEN, S.R. - LEE, D. - AVRUTIN, V. - ÖZGÜR, Ü - MORKOÇ, H. - AHMAD, I. MOCVD-grown β -Ga₂O₃ as a Gate Dielectric on AlGa_N/Ga_N-Based Heterojunction Field Effect Transistor. In *CRYSTALS*. FEB 2023, vol. 13, no. 2. Dostupné na: <https://doi.org/10.3390/cryst13020231>, Registrované v: WOS
9. [1.1] KARMAKAR, C. - KANERIYA, R.K. - MALASI, M. - RATHOD, S. - KUMAR, D. - CHAKRAVARTY, S. - UPADHYAY, R.B. - KUMAR, P. - BHATTACHARYA, A.N. - JOSHI, U.S. Enhanced quantum oscillations and scattering effect in quaternary InAlGa_N/Ga_N two-dimensional electron gas. In *APPLIED PHYSICS LETTERS*. ISSN 0003-6951, MAY 15 2023, vol. 122, no. 20. Dostupné na: <https://doi.org/10.1063/5.0142605>, Registrované v: WOS
10. [1.1] KOZAK, J.P. - ZHANG, R.Z. - PORTER, M. - SONG, Q.H. - LIU, J.C. - WANG, B.X. - WANG, R. - SAITO, W. - ZHANG, Y.H. Stability, Reliability, and Robustness of Ga_N Power Devices: A Review. In *IEEE TRANSACTIONS ON POWER ELECTRONICS*. ISSN 0885-8993, JUL 2023, vol. 38, no. 7, p. 8442-8471. Dostupné na: <https://doi.org/10.1109/TPEL.2023.3266365>, Registrované v: WOS
11. [1.1] MANSUROV, V. - MALIN, T. - GOLYASHOV, V. - MILAKHIN, D. - ZHURAVLEV, K. Investigation of the effect of different types of Si_n layers and cap-GaN on the surface electronic states of AlGa_N/Ga_N heterostructures with 2DEG using X-ray and UV photoelectron spectroscopy. In *APPLIED SURFACE SCIENCE*. ISSN 0169-4332, DEC 15 2023, vol. 640. Dostupné na: <https://doi.org/10.1016/j.apsusc.2023.158313>, Registrované v: WOS
12. [1.1] MIKAKE, B. - KOBAYASHI, T. - MIZOBATA, H. - NOZAKI, M. - SHIMURA, T. - WATANABE, H. Reduction of interface and oxide traps in SiO₂/Ga_N MOS structures by oxygen and forming gas annealing. In *APPLIED PHYSICS EXPRESS*. ISSN 1882-0778, MAR 1 2023, vol. 16, no. 3. Dostupné na: <https://doi.org/10.35848/1882-0786/acc1bd>, Registrované v: WOS
13. [1.1] ODABASI, O. - GHOBADI, A. - GHOBADI, T.G.U. - GUNEYSU, E. - URFALI, E. - YAGLIOGLU, G. - BUTUN, B. - OZBAY, E. Nanometer-Thick Insertion Layer for the Effective Passivation of Surface Traps and Improved Edge Acuity for AlGa_N/Ga_N HEMTs. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. ISSN 0018-9383, OCT 2023, vol. 70, no. 10, p. 5081-5086. Dostupné na: <https://doi.org/10.1109/TED.2023.3305971>, Registrované v: WOS
14. [1.1] OZAKI, S. - KUMAZAKI, Y. - OKAMOTO, N. - NAKASHA, Y. - HARA, N. - OHKI, T. Surface-oxide-controlled InGaAs/InAlAs inverted-type metal-oxide-semiconductor high electron mobility transistors for sub-THz high-power amplifiers. In *JAPANESE JOURNAL OF APPLIED PHYSICS*. ISSN 0021-4922, APR 1 2023, vol. 62, no. 4C. Dostupné na: <https://doi.org/10.35848/1347-4065/acaed6>, Registrované v: WOS
15. [1.1] OZAKI, S. - KUMAZAKI, Y. - OKAMOTO, N. - NAKASHA, Y. - OHKI, T. - HARA, N. Effect of oxidant sources on carbon-related impurities in ALD-Al₂O₃ for solid-state devices. In *APPLIED PHYSICS EXPRESS*. ISSN 1882-0778, SEP 1 2023, vol. 16, no. 9. Dostupné na: <https://doi.org/10.35848/1882-0786/acf486>, Registrované v: WOS

16. [1.1] RAO, G.P. - LENKA, T.R. - BOUKORTT, N.E. - SADAF, S.M. - NGUYEN, H.P.T. Investigation of performance enhancement of a recessed gate field-plated AlGaN/AlN/GaN nano-HEMT on β -Ga₂O₃ substrate with variation of AlN spacer layer thickness. In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*. ISSN 0957-4522, JUN 2023, vol. 34, no. 18. Dostupné na: <https://doi.org/10.1007/s10854-023-10867-z>, Registrované v: WOS
17. [1.1] WANG, S.N. - LU, Y.S. - HE, P. - ZHANG, S.Y. Die shear analyze of electrically conductive adhesives in GaN wafer application. In *MICROELECTRONICS RELIABILITY*. ISSN 0026-2714, DEC 2023, vol. 151. Dostupné na: <https://doi.org/10.1016/j.microrel.2023.115282>, Registrované v: WOS
18. [1.1] ZHU, T. - ZHENG, X.F. - YIN, T.X. - ZHANG, H. - WANG, X.H. - YUE, S.Z. - WANG, T. - HAN, T. - MA, X.H. - HAO, Y. A thorough study on the electrical performance change and trap evolution of AlGaN/GaN MIS-HEMTs under proton irradiation. In *APPLIED PHYSICS LETTERS*. ISSN 0003-6951, MAY 1 2023, vol. 122, no. 18. Dostupné na: <https://doi.org/10.1063/5.0146638>, Registrované v: WOS
19. [1.2] KNEZEVIC, Tihomir - NANVER, Lis K. Identifying nano-Schottky diode currents in silicon diodes with 2D interfacial layers. In *IEEE International Conference on Microelectronic Test Structures, 2023-01-01, 2023-March*, pp. Dostupné na: <https://doi.org/10.1109/ICMTS55420.2023.10094164>, Registrované v: SCOPUS

ADCA141 HAŠČÍK, Štefan - HOTOVÝ, I. - LALINSKÝ, Tibor - VANKO, Gabriel - ŘEHÁČEK, V. - MOZOLOVÁ, Želmíra. Preparation of thin GaAs suspended membranes for gas microsensors using plasma etching. In *Vacuum*, 2007, vol. 82, p. 236-239. (2006: 0.834 - IF, Q3 - JCR, 0.464 - SJR, Q2 - SJR).

Citácie:

1. [1.1] LEÓN-GONZÁLEZ, J.C. - TOSCANO-NEGRETTE, R.G. - MORALES, A.L. - VINASCO, J.A. - YÜCEL, M.B. - SARI, H. - KASAPOGLU, E. - SAKIROGLU, S. - MORA-RAMOS, M.E. - RESTREPO, R.L. - DUQUE, C.A. Spin-Orbit and Zeeman Effects on the Electronic Properties of Single Quantum Rings: Applied Magnetic Field and Topological Defects. In *NANOMATERIALS*. APR 25 2023, vol. 13, no. 9. Dostupné na: <https://doi.org/10.3390/nano13091461>, Registrované v: WOS

ADCA142 HLÁŠNIK, Ivan - TAKÁCS, Silvester - BURJAK, B.P. - MAJOROŠ, Milan - KRAJČÍK, Jozef - KREMPASKÝ, Ludovít - POLÁK, Milan - JERGEL, Milan - KORNEVA, A.T. - MIRONOVA, O.N. - IVAN, Jozef. Properties of superconducting NbTi superfine filament composites with d 0.1 .MU. In *Cryogenics*, 1985, vol. 25, p. 558. ISSN 0011-2275.

Citácie:

1. [1.1] BERRIAUD, C. - LOTTIN, J.P. - NUNIO, F. - STACCHI, F. - MAKSOUD, W.A. - CALVELLI, V. - DILASSER, G. - DURANONA, U. - LORIN, C. - SCOLA, L. - PONTAROLLO, T. Design Evolution of MADMAX Conductor to a Nb-Ti Cable in Copper Conduit. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, OCT 2023, vol. 33, no. 7. Dostupné na: <https://doi.org/10.1109/TASC.2023.3286286>, Registrované v: WOS

ADCA143 HONG, Z. - LI, W. - CHEN, Yanjun - GÖMÖRY, Fedor - FROLEK, Lubomír - ZHANG, M. - SHENG, J.**. Design optimization of superconducting coils based on asymmetrical characteristics of REBCO tapes. In *Physica C. Superconductivity and its applications*, 2018, vol. 550, p. 74-77. (2017: 1.453 - IF, Q3 - JCR, 0.492 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0921-4534. Dostupné na: <https://doi.org/10.1016/j.physc.2018.04.008>

Citácie:

1. [1.1] WU, Y. - SONG, W.J. - WIMBUSH, S.C. - FANG, J. - BADCOCK, R.A. - LONG, N.J. - JIANG, Z.A. *Combined Impact of Asymmetric Critical Current and Flux Diverters on AC Loss of a 6.5 MVA/25 kV HTS Traction Transformer. In IEEE TRANSACTIONS ON TRANSPORTATION ELECTRIFICATION. ISSN 2332-7782, MAR 2023, vol. 9, no. 1, p. 1590-1604. Dostupné na: <https://doi.org/10.1109/TTE.2022.3194027>, Registrované v: WOS*

ADCA144

HOPKINS, S.C. - MITCHELL-WILLIAMS, T.B. - VANDEN BUSSCHE, D.R. - CALLEJA, A. - VLAD, V.R. - VILARDELL, M. - GRANADOS, X. - PUIG, T. - OBRADORS, X. - USOSKIN, A. - SOLOVYOV, Mykola - VOJENČIAK, Michal - GÖMÖRY, Fedor - VAN DRIESSCHE, I. - BÄCKER, M. - GLOWACKI, B.A. *Low AC loss inkjet-printed multifilamentary YBCO coated conductors. In IEEE Transactions on Applied Superconductivity, 2016, vol. 26, art. no. 6602905. (2015: 1.092 - IF, Q3 - JCR, 0.403 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2016.2542001>*

Citácie:

1. [1.2] WANG, Dong Xu - CHEN, Jing - ZHOU, Di Fan - CAI, Chuan Bing. *Development of metal-organic deposition-derived second-generation high-temperature superconductor tapes and artificial flux pinning. In Advances in Manufacturing, 2023-09-01, 11, 3, pp. 523-540. ISSN 20953127. Dostupné na: <https://doi.org/10.1007/s40436-023-00447-z>, Registrované v: SCOPUS*

ADCA145

HOTOVÝ, I. - HURAN, Jozef - SPIESS, L. *Characterization of sputtered NiO films using XRD and AFM. In Journal of Materials Science. - New York : Springer, 2004, vol. 39, p. 2609-2612. (2003: 0.826 - IF, karentované - CCC). (2004 - Current Contents, WOS, SCOPUS). ISSN 0022-2461.*

Citácie:

1. [1.1] GARZA-CERVANTES, J.A. - MENDIOLA-GARZA, G. - LEÓN-BUITIMEA, A. - MORONES-RAMÍREZ, J.R. *Synergistic antibacterial effects of exopolysaccharides/nickel-nanoparticles composites against multidrug-resistant bacteria. In SCIENTIFIC REPORTS. ISSN 2045-2322, DEC 6 2023, vol. 13, no. 1. Dostupné na: <https://doi.org/10.1038/s41598-023-48821-y>, Registrované v: WOS*

2. [1.1] LELIS, M. - TUCKUTE, S. - URBONAVICIUS, M. - VARNAGIRIS, S. - SAKALAUSKAITE, S. - DAUGELAVICIUS, R. *C-TiO₂+Ni and ZnO plus Ni Magnetic Photocatalyst Powder Synthesis by Reactive Magnetron Sputtering Technique and Their Application for Bacteria Inactivation. In INORGANICS. FEB 2023, vol. 11, no. 2. Dostupné na: <https://doi.org/10.3390/inorganics11020059>, Registrované v: WOS*

3. [1.2] ABD ALWAHAB, Ali Adnan - JUBIER, Najwa J. - ODAH, Jafer Fahdel. *Structural Properties of NiO Thin Films Deposited by DC Magnetron Sputtering: Influence of the Preparing Features. In AIP Conference Proceedings, 2022-08-17, 2437, pp. ISSN 0094243X. Dostupné na: <https://doi.org/10.1063/5.0094718>, Registrované v: SCOPUS*

4. [1.2] SHAH, Nayem Md Reza - YEO, Chang Dong - CHOI, Minyeong - HONG, Yang Ki - YOU, Jeong H. *Change of Electrical and Transport Properties of Nickel Oxide by Carrier Concentration and Temperature through First-Principle Calculations. In Nanomanufacturing and Metrology, 2023-12-01, 6, 1, pp. ISSN 2520811X. Dostupné na: <https://doi.org/10.1007/s41871-023-00215-4>, Registrované v: SCOPUS*

ADCA146

HOTOVÝ, I. - HURAN, Jozef - SICILIANO, P. - CAPONE, S. - SPIESS, L. - REHACEK, V. *Enhancement of H₂ sensing properties of NiO-based thin films with*

a Pt surface modification. In *Sensors and Actuators B*, 2004, vol. 103, p. 300-311.

Citácie:

1. [1.1] AEJITHA, S. - DHANRAJ, G. - GOVINDARAJ, T. - KUMAR, N.S. - MAIZ, F. - SHKIR, M. - KIM, W.K. - REDDY, V.R.M. - KIM, D.H. *Effect of La-doping on NiO photocatalyst for enhancing photocatalytic degradation performance under visible light irradiation: DFT calculations and degradation mechanism.* In *INORGANIC CHEMISTRY COMMUNICATIONS*. ISSN 1387-7003, OCT 2023, vol. 156. Dostupné na:

<https://doi.org/10.1016/j.inoche.2023.111172>, Registrované v: WOS

2. [1.1] KARADENIZ, S.M. - ISKENDEROGU, D. - GüLDüREN, M.E. - GüNEY, H. - SARITAS, S. *H₂ gas sensing applications of undoped and Fe-doped CuO thin films grown by USP.* In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*. ISSN 0957-4522, SEP 2023, vol. 34, no. 27. Dostupné na:

<https://doi.org/10.1007/s10854-023-11247-3>, Registrované v: WOS

3. [1.1] LUO, Q.S. - WU, J.X. - ZOU, S. - WANG, W.J. - WANG, Z.X. - WAN, Y. - FENG, C.H. *N-Butanol sensor based on electrospun Al doped ZnFe₂O₄ nanofibers.* In *JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS*. ISSN 1876-1070, APR 2023, vol. 145. Dostupné na:

<https://doi.org/10.1016/j.jtice.2023.104820>, Registrované v: WOS

4. [1.1] SENER, M. - SISMAN, O. - KILINC, N. *AAO-Assisted Nanoporous Platinum Films for Hydrogen Sensor Application.* In *CATALYSTS*. MAR 2023, vol. 13, no. 3. Dostupné na: <https://doi.org/10.3390/catal13030459>, Registrované v: WOS

5. [1.2] ABD ALWAHAB, Ali Adnan - JUBIER, Najwa J. - ODAH, Jafer Fahdel. *Structural Properties of NiO Thin Films Deposited by DC Magnetron Sputtering: Influence of the Preparing Features.* In *AIP Conference Proceedings*, 2022-08-17, 2437, pp. ISSN 0094243X. Dostupné na: <https://doi.org/10.1063/5.0094718>, Registrované v: SCOPUS

6. [1.2] AHMED, Firdous Shaker - MUBARAK, Tahseen H. - CHIAD, Sami Salman - ABASS, Khalid Haneen - HABUBI, Nadir Fadhil - ABOOD, Ziad M. *Formation and characterization of NiO and NiO:Al thin films prepared by chemical spray pyrolysis CSP.* In *AIP Conference Proceedings*, 2023-03-31, 2475, pp. ISSN 0094243X. Dostupné na: <https://doi.org/10.1063/5.0102580>, Registrované v: SCOPUS

ADCA147 HOTOVÝ, I. - HURAN, Jozef - SPIESS, L. - LIDAY, J. - SITTER, H. - HAŠČÍK, Štefan. *Influence of process parameters and annealing temperature on the physical properties of sputtered NiO thin films.* In *Vacuum*, 2002, vol. 69, p. 237-242.

Citácie:

1. [1.2] HUSSAIN, Aasim - SIDDIQUI, A. M. - DHILLON, Anju - RAHMAN, Shafaque - BOORA, Navjyoti - HAFIZ, A. K. *Study of DC Sputtered Undoped NiO Thin Films.* In *Lecture Notes in Electrical Engineering*, 2023-01-01, 906, pp. 129-135. ISSN 18761100. Dostupné na: https://doi.org/10.1007/978-981-19-2468-2_15, Registrované v: SCOPUS

ADCA148 HOTOVÝ, I. - HURAN, Jozef - SPIESS, L. - ROMANUS, H. - BÚC, D. - KOSIBA, R. *NiO-based nanostructured thin films with Pt surface modification for gas detection.* In *Thin Solid Films*, 2006, vol. 515, p. 658-661. (2005: 1.569 - IF, Q1 - JCR, 1.179 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0040-6090.

Citácie:

1. [1.1] BERHE, M.G. - GEBRESLASSIE, Y.T. *Biomedical Applications of Biosynthesized Nickel Oxide Nanoparticles.* In *INTERNATIONAL JOURNAL OF NANOMEDICINE*. ISSN 1178-2013, 2023, vol. 18, p. 4229-4251. Dostupné na:

<https://doi.org/10.2147/IJN.S410668>, Registrované v: WOS

2. [1.1] SAHILA, S. - PRABHU, N. - SIMIYON, G.G. - JAYAKUMARI, L.S. A novel green and eco-friendly synthesis of nickel oxide nanoparticles by auto combustion technique using allium cepa bulb extract and their dielectric behaviour. In CHEMICAL DATA COLLECTIONS. APR 2022, vol. 38. Dostupné na: <https://doi.org/10.1016/j.cdc.2022.100837>, Registrované v: WOS

ADCA149 HOTOVÝ, I. - HURAN, Jozef - SPIESS, L. - ČAPKOVIČ, R. - HAŠČÍK, Štefan. Preparation and characterization of NiO thin films for gas sensor applications. In Vacuum, 2000, vol. 58, p. 300-307. (1999: 0.510 - IF, karentované - CCC). (2000 - Current Contents).

Citácie:

1. [1.1] DASTAN, D. - SHAN, K. - JAFARI, A. - MARSZALEK, T. - MOHAMMED, M.K.A. - TAO, L. - SHI, Z.C. - CHEN, Y.X. - YIN, X.T. - ALHARBI, N.D. - GITY, F. - ASGARY, S. - HATAMVAND, M. - ANSARI, L. Influence of heat treatment on H₂S gas sensing features of NiO thin films deposited via thermal evaporation technique. In MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING. ISSN 1369-8001, FEB 2023, vol. 154. Dostupné na: <https://doi.org/10.1016/j.mssp.2022.107232>, Registrované v: WOS

2. [1.1] HAMDAN, S.A. Annealing Effect on Nickel Oxide Nanoparticles Properties. In JORDAN JOURNAL OF PHYSICS. ISSN 1994-7607, AUG 2023, vol. 16, no. 3, p. 373-380. Dostupné na: <https://doi.org/10.47011/16.3.12>, Registrované v: WOS

3. [1.1] NABI, G. - ATIQ, B. - ELSAEEDY, H.I. - TANVEER, M. - ALI, W. - RIAZ, A. Bandgap tuning by controlled growth of Mo doped NiO nanoparticles and their functional role as excellent photocatalytic degradation agent. In INORGANIC CHEMISTRY COMMUNICATIONS. ISSN 1387-7003, NOV 2023, vol. 157. Dostupné na: <https://doi.org/10.1016/j.inoche.2023.111448>, Registrované v: WOS

ADCA150 HOTOVÝ, I. - HURAN, Jozef - SPIESS, L. - HAŠČÍK, Štefan - REHACEK, V. Preparation of nickel oxide thin films for gas sensors applications. In Sensors and Actuators B : Chemical, 1999, vol. 57, p. 147-152. (1998: 1.130 - IF, karentované - CCC). (1999 - Current Contents).

Citácie:

1. [1.1] KUMAR, V.P. - PRADEEP, C. - RAJSHA, M.M. - RISHAD, K.P.M. - RADHAKRISHNAN, P. - MUJEEB, A. Band-gap dependence of two-photon absorption mechanism in NiO nanoparticles synthesized at different calcination temperatures. In OPTICAL MATERIALS. ISSN 0925-3467, AUG 2023, vol. 142. Dostupné na: <https://doi.org/10.1016/j.optmat.2023.114063>, Registrované v: WOS

2. [1.1] LAHIJI, F.A.F. - BAIRAGI, S. - MAGNUSSON, R. - SORTICA, M.A. - PRIMETZHOFFER, D. - EKSTROEM, E. - PAUL, B. - LE FEBVRIER, A. - EKLUND, P. Growth and optical properties of NiO thin films deposited by pulsed dc reactive magnetron sputtering. In JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A. ISSN 0734-2101, DEC 2023, vol. 41, no. 6. Dostupné na: <https://doi.org/10.1116/6.0002914>, Registrované v: WOS

3. [1.1] MALA, N.A. - DAR, M.A. - RATHER, M.U.D. - RESHI, B.A. - SIVAKUMAR, S. - BATOO, K.M. - AHMAD, Z. Supercapacitor and magnetic properties of NiO and manganese-doped NiO nanoparticles synthesized by chemical precipitation method. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. ISSN 0957-4522, FEB 2023, vol. 34, no. 6. Dostupné na: <https://doi.org/10.1007/s10854-023-09907-5>, Registrované v: WOS

4. [1.1] MENG, L.J. - HOW, Z.T. - CHELME-AYALA, P. - BENALLY, C. - EL-DIN, M.G. Z-scheme plasmonic Ag decorated Bi₂WO₆/NiO hybrids for enhanced

photocatalytic treatment of naphthenic acids in real oil sands process water under simulated solar irradiation. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, JUL 15 2023, vol. 454. Dostupné na:

<https://doi.org/10.1016/j.jhazmat.2023.131441>, Registrované v: WOS

5. [1.1] MICHEL, J.I. - DRÉON, J. - BOCCARD, M. - BULLOCK, J. - MACCO, B. *Carrier-selective contacts using metal compounds for crystalline silicon solar cells. In PROGRESS IN PHOTOVOLTAICS. ISSN 1062-7995, APR 2023, vol. 31, no. 4, SI, p. 380-413. Dostupné na: <https://doi.org/10.1002/pip.3552>,*

Registrované v: WOS

6. [1.1] SRIVASTAVA, S. - GANGWAR, A.K. - KUMAR, A. - GUPTA, G. - SINGH, P. *Room temperature RF magnetron sputtered nanocrystalline NiO thin films for highly responsive and selective H₂S gas sensing at low ppm concentrations. In MATERIALS RESEARCH BULLETIN. ISSN 0025-5408, SEP 2023, vol. 165. Dostupné na: <https://doi.org/10.1016/j.materresbull.2023.112330>,*

Registrované v: WOS

ADCA151 HOTOVÝ, I. - BÚC, D. - HAŠČÍK, Štefan - NENNEWITZ, O. *Characterization of NiO thin films deposited by reactive sputtering. In Vacuum, 1998, vol. 50, p. 41-44. (1997: 0.480 - IF, karentované - CCC). (1998 - Current Contents).*

Citácie:

1. [1.1] KUMAR, M. - ANSARI, J.R. - SRIVASTAVA, A.K. - SHARMA, A. *Influence of Deposition and Annealing Temperature on Resistivity and Nanoindentation Characteristics of Reactive Magnetic Sputtered NiO Films. In IRANIAN JOURNAL OF CHEMISTRY & CHEMICAL ENGINEERING-INTERNATIONAL ENGLISH EDITION. ISSN 1021-9986, OCT 2023, vol. 42, no. 10, p. 3249-3256., Registrované v: WOS*

2. [1.1] KÖKSAL, O.K. - SÖGÜT, O. - KÜÇÜKÖNDER, E. - DAGLI, S. *Application of X-rays to Interpret Intensity Ratios for Nickel in Nickel (II) Oxide. In ACTA PHYSICA POLONICA A. ISSN 0587-4246, MAY 2023, vol. 143, no. 5, p. 362-368. Dostupné na: <https://doi.org/10.12693/APhysPolA.143.362>, Registrované v: WOS*

3. [1.1] LI, J.S. - XIA, X.Y. - CHIANG, C.C. - HAYS, D.C. - GILA, B.P. - CRACIUN, V. - REN, F. - PEARTON, S.J. *Deposition of sputtered NiO as a p-type layer for heterojunction diodes with Ga₂O₃. In JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A. ISSN 0734-2101, JAN 2023, vol. 41, no. 1. Dostupné na: <https://doi.org/10.1116/6.0002250>, Registrované v: WOS*

4. [1.1] LU, X. - DENG, Y.X. - PEI, Y.L. - CHEN, Z.M. - WANG, G. *Recent advances in NiO/Ga₂O₃ heterojunctions for power electronics. In JOURNAL OF SEMICONDUCTORS. ISSN 1674-4926, JUN 1 2023, vol. 44, no. 6. Dostupné na: <https://doi.org/10.1088/1674-4926/44/6/061802>, Registrované v: WOS*

ADCA152 HOTOVÝ, I. - HURAN, Jozef - BÚC, D. - SRNÁNEK, R. *Thermal stability of NbN films deposited on GaAs substrates. In Vacuum, 1998, vol. 50, p. 45-48. (1997: 0.480 - IF, karentované - CCC). (1998 - Current Contents).*

Citácie:

1. [1.1] GONZALEZ-CARMONA, J.M. - MAMBUSCAY, C.L. - ORTEGA-PORTILLA, C. - HURTADO-MACIAS, A. - PIAMBA, J.F. *TiNbN Hard Coating Deposited at Varied Substrate Temperature by Cathodic Arc: Tribological Performance under Simulated Cutting Conditions. In MATERIALS. JUL 2023, vol. 16, no. 13. Dostupné na: <https://doi.org/10.3390/ma16134531>, Registrované v: WOS*

ADCA153 HOTOVÝ, I. - HURAN, Jozef - JANÍK, J. - KOBZEV, A.P. *Deposition and properties of nickel oxide films produced by DC reactive magnetron sputtering. In Vacuum, 1998, vol. 50, p. 157-160. (1997: 0.480 - IF, karentované - CCC). (1998 -*

Current Contents).

Citácie:

1. [1.1] ABDEL-WAHAB, M.S. - EL EMAM, H.K. - EL ROUBY, W.M.A. Sputtered Ag-doped NiO thin films: structural, optical, and electrocatalytic activity toward methanol oxidation. In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*. ISSN 0957-4522, AUG 2023, vol. 34, no. 22. Dostupné na: <https://doi.org/10.1007/s10854-023-11029-x>, Registrované v: WOS

2. [1.1] REGALADO-CONTRERAS, A. - FARIAS, M.H. - DE LA CRUZ, W. Room temperature deposition of stable p-type ZnO:N thin films through chemical species modulation using reactive pulsed laser deposition. In *APPLIED SURFACE SCIENCE*. ISSN 0169-4332, DEC 15 2023, vol. 640. Dostupné na: <https://doi.org/10.1016/j.apsusc.2023.158393>, Registrované v: WOS

ADCA154

HOTOVÝ, I. - HURAN, Jozef - SICILIANO, P. - CAPONE, S. - SPIESS, L. - REHACEK, V. The Influences of preparation parameters on NiO thin film properties for gas-sensing application. In *Sensors and Actuators B : Chemical*, 2001, vol. 78, p. 126-132.

Citácie:

1. [1.1] DASTAN, D. - SHAN, K. - JAFARI, A. - MARSZALEK, T. - MOHAMMED, M.K.A. - TAO, L. - SHI, Z.C. - CHEN, Y.X. - YIN, X.T. - ALHARBI, N.D. - GITY, F. - ASGARY, S. - HATAMVAND, M. - ANSARI, L. Influence of heat treatment on H₂S gas sensing features of NiO thin films deposited via thermal evaporation technique. In *MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING*. ISSN 1369-8001, FEB 2023, vol. 154. Dostupné na: <https://doi.org/10.1016/j.mssp.2022.107232>, Registrované v: WOS

2. [1.1] HOPOGLU, H. - KAYA, D. - MASLOV, M.M. - KAYA, S. - DEMIR, L. - ALTUNTAS, I. - UNGAN, F. - AKYOL, M. - EKICIBIL, A. - TüzEMEN, E.S. Investigating the optical, electronic, magnetic properties and DFT of NiO films prepared using RF sputtering with various argon pressures. In *PHYSICA B-CONDENSED MATTER*. ISSN 0921-4526, JUL 15 2023, vol. 661. Dostupné na: <https://doi.org/10.1016/j.physb.2023.414937>, Registrované v: WOS

3. [1.1] KöKSAL, O.K. - SöGüT, O. - KüçüKöNDER, E. - DAGLI, S. Application of X-rays to Interpret Intensity Ratios for Nickel in Nickel (II) Oxide. In *ACTA PHYSICA POLONICA A*. ISSN 0587-4246, MAY 2023, vol. 143, no. 5, p. 362-368. Dostupné na: <https://doi.org/10.12693/APhysPolA.143.362>, Registrované v: WOS

4. [1.1] SRIVASTAVA, S. - GANGWAR, A.K. - KUMAR, A. - GUPTA, G. - SINGH, P. Room temperature RF magnetron sputtered nanocrystalline NiO thin films for highly responsive and selective H₂S gas sensing at low ppm concentrations. In *MATERIALS RESEARCH BULLETIN*. ISSN 0025-5408, SEP 2023, vol. 165. Dostupné na: <https://doi.org/10.1016/j.materresbull.2023.112330>, Registrované v: WOS

5. [1.2] SRIVASTAVA, Stuti - KUMAR GANGWAR, Amit - GODIWAL, Rahul - GUPTA, Govind - SINGH, Preetam. Investigating the properties of nickel oxide thin films prepared via DC reactive magnetron sputtering for potential application in gas sensing. In *Materials Today: Proceedings*, 2023-01-01, pp. Dostupné na: <https://doi.org/10.1016/j.matpr.2023.04.120>, Registrované v: SCOPUS

ADCA155

HOTOVÝ, I. - ŘEHÁČEK, V. - MIKA, F. - LALINSKÝ, Tibor - HAŠČÍK, Štefan - VANKO, Gabriel - DRŽÍK, Milan. Gallium arsenide suspended microheater for MEMS sensor arrays. In *Microsystem Technologies*, 2008, vol. 14, p. 629-635. (2007: 0.912 - IF, Q2 - JCR, 0.594 - SJR, Q2 - SJR).

Citácie:

1. [1.1] HAN, J.Q. - SUN, W.H. Front-side releasing oriented clamped-clamped beams for piezoresistive sensors. In JOURNAL OF MICROMECHANICS AND MICROENGINEERING. ISSN 0960-1317, JUL 1 2023, vol. 33, no. 7. Dostupné na: <https://doi.org/10.1088/1361-6439/acd126>, Registrované v: WOS

2. [1.1] PLESHAKOV, G.A. - KALININ, I.A. - IVANOV, A.V. - ROSLYAKOV, I.V. - YAMINSKY, I.V. - NAPOLSKII, K.S. Towards High-Temperature MEMS: Two-Step Annealing Suppressed Recrystallization in Thin Multilayer Pt-Rh/Zr Films. In MICROMACHINES. NOV 2023, vol. 14, no. 11. Dostupné na: <https://doi.org/10.3390/mi14112003>, Registrované v: WOS

3. [1.2] ZHENG, Shijian - HE, Longbing. In-Situ Heating TEM. In In-Situ Transmission Electron Microscopy, 2023-01-01, pp. 83-104. Dostupné na: https://doi.org/10.1007/978-981-19-6845-7_4, Registrované v: SCOPUS

ADCA156 HOTOVÝ, I.** - SPIESS, L. - SOJKOVÁ, Michaela - KOSTIČ, Ivan - MIKOLÁŠEK, M. - PREDANOCY, Martin - ROMANUS, H. - HULMAN, Martin - ŘEHÁČEK, V. Structural and optical properties of WS₂ prepared using sulfurization of different thick sputtered tungsten films. In Applied Surface Science, 2018, vol. 461, p. 133-138. (2017: 4.439 - IF, Q1 - JCR, 1.093 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2018.05.209> (VEGA 2/0149/17)

Citácie:

1. [1.1] BHALWANKAR, M. - MASTUD, S.A. - MARIMUTHU, R. - AMALNERKAR, D. Thermal stability and crystallisation behaviour study for nanocomposite of polyphenylene sulphide with WS₂, MoS₂ nanofiller and PEGM as impact modifier. In ADVANCES IN MATERIALS AND PROCESSING TECHNOLOGIES. ISSN 2374-068X, 2023 MAR 3 2023. Dostupné na: <https://doi.org/10.1080/2374068X.2023.2184587>, Registrované v: WOS

2. [1.1] ZENG, Qunfeng - NING, Zekun - ZHU, Jianing - WANG, Zhao - PANG, Zeming. A Comparative Study on the Anti-Friction Performance of Amorphous Silicon Films Enhanced by WS₂ Nanoflakes. In SILICON, 2023, vol. 15, no. 3, pp. 1291-1302. ISSN 1876-990X. Dostupné na: <https://doi.org/10.1007/s12633-022-02110-x>, Registrované v: WOS

ADCA157 HOTOVÝ, I. - HAŠČÍK, Štefan - GREGOR, M. - PREDANOCY, Martin - PLECENÍK, A. Dry etching characteristics of TiO₂ thin films using inductively coupled plasma for gas sensing. In Vacuum, 2014, vol. 107, p. 20-22. (2013: 1.426 - IF, Q2 - JCR, 0.568 - SJR, Q2 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0042-207X. Dostupné na: <https://doi.org/10.1016/j.vacuum.2014.03.025>

Citácie:

1. [1.1] WU, X. - FAN, B. - XIN, Q. - LUO, Q. - SHAO, J.M. - GAO, G.H. - JIAO, P.Q. Plasma Figure Correction Method Based on Multiple Distributed Material Removal Functions. In MICROMACHINES. JUN 2023, vol. 14, no. 6. Dostupné na: <https://doi.org/10.3390/mi14061193>, Registrované v: WOS

ADCA158 HOTOVÝ, I.** - SPIESS, L. - MIKOLÁŠEK, M. - KOSTIČ, Ivan - SOJKOVÁ, Michaela - ROMANUS, H. - HULMAN, Martin - BÚC, D. - ŘEHÁČEK, V. Layered WS₂ thin films prepared by sulfurization of sputtered W films. In Applied Surface Science, 2021, vol. 544, no. 148719. (2020: 6.707 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2020.148719>

Citácie:

1. [1.1] GELLERUP, S. - ARNOLD, C.L. - MURATORE, C. - GLAVIN, N.R. - SHEPHERD, N.D. - VOEVODIN, A.A. Room temperature magnetron sputtering and laser annealing of ultrathin amorphous sulfur-rich MoS_x films. In JOURNAL

- ADCA159 HRDÁ, Jana - TAŠKOVÁ, Valéria - VOJTEKOVÁ, Tatiana - PRIBUSOVÁ SLUŠNÁ, Lenka - DOBROČKA, Edmund - PÍŠ, I. - BONDINO, F. - HULMAN, Martin - SOJKOVÁ, Michaela**. Tuning the charge carrier mobility in few-layer PtSe₂ films by Se: Pt ratio. In RSC Advances, 2021, vol. 11, no. 27292. (2020: 3.361 - IF, Q2 - JCR, 0.746 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2046-2069. Dostupné na: <https://doi.org/10.1039/d1ra04507e>
Citácie:
1. [1.1] JI, J. - ZHOU, Y.Q. - ZHOU, B.B. - DESGUÉ, E. - LEGAGNEUX, P. - JEPSEN, P.U. - BOGGILD, P. Probing Carrier Dynamics in Large-Scale MBE-Grown PtSe₂ Films by Terahertz Spectroscopy. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, OCT 26 2023, vol. 15, no. 44, p. 51319-51329. Dostupné na: <https://doi.org/10.1021/acsami.3c09792>, Registrované v: WOS
- ADCA160 HRIVNÁK, Ľubomír. Simple calculations of energy levels in quantum wells of lattice-matched semiconductors with nonparabolic bands. In Journal of Applied Physics, 1992, vol. 71, p. 4370-4374. (1991: 1.731 - IF, karentované - CCC). (1992 - Current Contents, SCOPUS). ISSN 0021-8979.
Citácie:
1. [1.1] MAOUHOUBI, I. - EDRISSI, S.J. - EN-NADIR, R. - ZORKANI, I. - HASSANI, A.O.T. - JORIO, A. Theoretical study of the non-parabolicity and size effects on the diamagnetic susceptibility of donor impurity in Si, HgS and GaAs cylindrical quantum dot and quantum disk: applied magnetic field influence is considered. In PHILOSOPHICAL MAGAZINE. ISSN 1478-6435, MAR 4 2023, vol. 103, no. 5, p. 492-505. Dostupné na: <https://doi.org/10.1080/14786435.2022.2158384>, Registrované v: WOS
- ADCA161 HRIVNÁK, Ľubomír. Exciton binding energy as a function of the well width. In Journal of Applied Physics, 1992, vol. 72, p. 3218.
Citácie:
1. [1.2] JOLLIVET, A. - QUACH, P. - TCHERNYCHEVA, M. - FERREIRA, R. - DI RUSSO, E. - RIGUTTI, L. - VINTER, B. - LE BIAVAN, N. - LEFEBVRE, D. - HUGUES, M. - CHAUVEAU, J. M. - JULIEN, F. H. Exciton ionization induced by intersubband absorption in nonpolar ZnO-ZnMgO quantum wells at room temperature. In Physical Review B, 2022-05-15, 105, 19, pp. ISSN 24699950. Dostupné na: <https://doi.org/10.1103/PhysRevB.105.195143>, Registrované v: SCOPUS
- ADCA162 HRONEC, M. - FULAJTÁROVÁ, K. - VÁVRA, Ivo - SOTÁK, T. - DOBROČKA, Edmund - MIČUŠÍK, Matej. Carbon supported Pd-Cu catalysts for highly selective rearrangement of furfural to cyclopentanone. In Applied Catalysis B: Environmental, 2016, vol. 181, p. 210-219. (2015: 8.328 - IF, Q1 - JCR, 2.326 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0926-3373. Dostupné na: <https://doi.org/10.1016/j.apcatb.2015.07.046>
Citácie:
1. [1.1] AKRAM, M. - BHUTTO, S.U. - AFTAB, S. - WANG, F.Y. - XU, X. - XIA, M.Z. Ruthenium based with carbon supported catalysts for the catalytic transfer hydrogenation of furfural: A review. In NANO ENERGY. ISSN 2211-2855, DEC 1 2023, vol. 117. Dostupné na: <https://doi.org/10.1016/j.nanoen.2023.108808>, Registrované v: WOS
2. [1.1] CHENG, C. - ZHAO, C.S. - ZHAO, D. - DING, S.M. - CHEN, C. The importance of constructing Triple-functional Sr₂P₂O₇/Ni₂P catalysts for smoothing hydrogenation Ring-rearrangement of Biomass-derived Furfural compounds in water. In JOURNAL OF CATALYSIS. ISSN 0021-9517, MAY 2023,

- vol. 421, p. 117-133. Dostupné na: <https://doi.org/10.1016/j.jcat.2023.03.007>, Registrované v: WOS
3. [1.1] CHOI, I. - HWANG, J. - HAN, J.W. - HWANG, K.R. Carbon recovery from wasted aqueous-phase bio-oil to fuel precursors through aldol-condensation reaction: A comprehensive review. In *JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY*. ISSN 1226-086X, OCT 25 2023, vol. 126, p. 115-126. Dostupné na: <https://doi.org/10.1016/j.jiec.2023.06.048>, Registrované v: WOS
4. [1.1] DENG, Q. - LU, J.L. - SHENG, G. - ZHANG, Y.C. - WANG, J. - ZENG, Z.L. - YOSKAMTORN, T. - TSANG, S.C.E. Catalytic Hydrodehydroxylation of Biomass-Related Chemicals via Water-Mediated Hydrogen Heterolysis over a Pd-S Interface. In *ACS CATALYSIS*. ISSN 2155-5435, OCT 25 2023, vol. 13, no. 21, p. 14356-14366. Dostupné na: <https://doi.org/10.1021/acscatal.3c02503>, Registrované v: WOS
5. [1.1] DENG, Q. - ZHOU, R. - ZHANG, Y.C. - LI, X. - LI, J.H. - TU, S.B. - SHENG, G. - WANG, J. - ZENG, Z.L. - YOSKAMTORN, T. - TSANG, S.C.E. H⁺-H⁻ Pairs in Partially Oxidized MAX Phases for Bifunctional Catalytic Conversion of Furfurals into Linear Ketones. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, FEB 20 2023, vol. 62, no. 9. Dostupné na: <https://doi.org/10.1002/anie.202211461>, Registrované v: WOS
6. [1.1] DUAN, Y. - CHENG, Y.Y. - HU, Z. - WANG, C.X. - SUI, D. - YANG, Y.L. - LU, T.L. - ELEMANS, J.A.A.W. A Comprehensive Review on Metal Catalysts for the Production of Cyclopentanone Derivatives from Furfural and HMF. In *MOLECULES*. JUL 2023, vol. 28, no. 14. Dostupné na: <https://doi.org/10.3390/molecules28145397>, Registrované v: WOS
7. [1.1] FAN, M.J. - TIAN, H.L. - SHAO, Y.W. - ZHANG, L.J. - ZHANG, S. - HU, G.Z. - HU, X. Pyrolysis of nickel salt@cellulose to prepare Ni/C catalyst with tunable hydrogenation and acid site for the selective hydrogenation of furfuryl alcohol. In *JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING*. ISSN 2213-2929, JUN 2023, vol. 11, no. 3. Dostupné na: <https://doi.org/10.1016/j.jece.2023.110013>, Registrované v: WOS
8. [1.1] FAN, Z.L. - ZHANG, J.X. - WU, D.F. Highly Efficient NiCu/SiO₂ Catalyst Induced by Ni(Cu)-Silica Interaction for Aqueous-Phase Furfural Hydrogenation. In *CATALYSIS LETTERS*. ISSN 1011-372X, MAY 2023, vol. 153, no. 5, p. 1543-1555. Dostupné na: <https://doi.org/10.1007/s10562-022-04097-x>, Registrované v: WOS
9. [1.1] KADAM, V.M. - YADAV, G.D. Development of a Green Process for the Synthesis of Cyclopentanone Using Selective Aqueous Phase Hydrogenation of Furfural over Ni-Cu@MOF-5 Catalyst. In *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*. ISSN 0888-5885, OCT 23 2023, vol. 62, no. 43, p. 17408-17427. Dostupné na: <https://doi.org/10.1021/acs.iecr.3c01203>, Registrované v: WOS
10. [1.1] LI, C. - ZHOU, S.X. - LI, Q.Y. - GAO, G.M. - ZHANG, L.J. - ZHANG, S. - HUANG, Y. - DING, K. - HU, X. Activation of sawdust with eggshells. In *JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS*. ISSN 0165-2370, MAY 2023, vol. 171. Dostupné na: <https://doi.org/10.1016/j.jaap.2023.105968>, Registrované v: WOS
11. [1.1] LI, X. - DENG, Q. Review on Metal-Acid Tandem Catalysis for Hydrogenative Rearrangement of Furfurals to C₅ Cyclic Compounds. In *TRANSACTIONS OF TIANJIN UNIVERSITY*. ISSN 1006-4982, OCT 2023, vol. 29, no. 5, p. 347-359. Dostupné na: <https://doi.org/10.1007/s12209-023-00367-w>,

Registrované v: WOS

12. [1.1] LIN, W.S. - WANG, Y. - ZHANG, J.H. - LIU, H. - PENG, L.C. Lignin-assembled zirconium-based PNA nanofiber for the catalytic transfer hydrogenation of furfural into furfuryl alcohol. In *SUSTAINABLE ENERGY & FUELS*. ISSN 2398-4902, JUL 25 2023, vol. 7, no. 15, p. 3716-3726. Dostupné na: <https://doi.org/10.1039/d3se00513e>, Registrované v: WOS
13. [1.1] LONG, W. - HUANG, S.S. - HUANG, Y.F. Selective catalytic hydrogenation of furfural to cyclopentanone over Ru-Co bimetallic catalyst. In *SCIENCEASIA*. ISSN 1513-1874, FEB 2023, vol. 49, no. 1, p. 116-+. Dostupné na: <https://doi.org/10.2306/scienceasia1513-1874.2022.140>, Registrované v: WOS
14. [1.1] MIRONENKO, R.M. - BELSKAYA, O.B. - LIKHOLOBOV, V.A. Aqueous-Phase Hydrogenation of Furfural in the Presence of Supported Metal Catalysts of Different Types. A Review. In *DOKLADY PHYSICAL CHEMISTRY*. ISSN 0012-5016, MAR 2023, vol. 509, no. 1, p. 33-50. Dostupné na: <https://doi.org/10.1134/S0012501623600109>, Registrované v: WOS
15. [1.1] MORALES, M.V. - CONESA, J.M. - GALVIN, A.J. - GUERRERO-RUIZ, A. - RODRIGUEZ-RAMOS, I. Selective hydrogenation reactions of 5-hydroxymethylfurfural over Cu and Ni catalysts in water: Effect of Cu and Ni combination and the reagent purity. In *CATALYSIS TODAY*. ISSN 0920-5861, NOV 1 2023, vol. 423. Dostupné na: <https://doi.org/10.1016/j.cattod.2023.01.028>, Registrované v: WOS
16. [1.1] OROZCO-SAUMELL, A. - MARISCAL, R. - VILA, F. - GRANADOS, M.L. - ALONSO, D.M. Hydrogenation of Furfural to Cyclopentanone in Tert-Butanol-Water Medium: A Study of the Reaction Intermediates Reactivity Using Cu/ZnO/Al₂O₃ as Catalyst. In *CATALYSTS*. NOV 2023, vol. 13, no. 11. Dostupné na: <https://doi.org/10.3390/catal13111394>, Registrované v: WOS
17. [1.1] RUAN, L.A. - ZHU, L.H. - ZHANG, X.W. - GUO, G.R. - SHANG, C.X. - CHEN, B.H. - GUO, Z.X. Porous SiO₂ nanosphere-supported PtCuCo trimetallic nanoparticles for highly efficient and selective furfural hydrogenation. In *FUEL*. ISSN 0016-2361, MAR 1 2023, vol. 335. Dostupné na: <https://doi.org/10.1016/j.fuel.2022.126935>, Registrované v: WOS
18. [1.1] RUAN, L.A. - ZHU, L.H. - ZHANG, X.W. - ZHOU, C. - ALASMARY, F.A. - LUQUE, R. - CHEN, B.H. A highly efficient, selective and stable PtCoNi/MWCNTs nanocatalyst for furfural hydrogenation to furfuryl alcohol under mild reaction conditions. In *FUEL*. ISSN 0016-2361, FEB 1 2023, vol. 333, 1. Dostupné na: <https://doi.org/10.1016/j.fuel.2022.126222>, Registrované v: WOS
19. [1.1] TIAN, Y. - CHEN, B.L. - YU, Z.D. - HUANG, R.J. - YAN, G.H. - LI, Z. - SUN, Y. - YANG, S.L. - TANG, X. - LIN, L. - ZENG, X.H. Efficient catalytic hydrogenation of furfural over cobalt-based catalysts with adjustable acidity. In *CHEMICAL ENGINEERING SCIENCE*. ISSN 0009-2509, APR 15 2023, vol. 270. Dostupné na: <https://doi.org/10.1016/j.ces.2023.118527>, Registrované v: WOS
20. [1.1] TIAN, Y. - FEMG, Y. - LI, Z. - FAN, Y. - SPERRY, J. - SUN, Y. - YANG, S.L. - TANG, X. - LIN, L. - ZENG, X.H. Green and efficient selective hydrogenation of furfural to furfuryl alcohol over hybrid CoOx/Nb₂O₅ nanocatalyst in water. In *MOLECULAR CATALYSIS*. ISSN 2468-8231, MAR 1 2023, vol. 538. Dostupné na: <https://doi.org/10.1016/j.mcat.2023.112981>, Registrované v: WOS
21. [1.1] WANG, W. - AN, L. - QIAN, C. - LI, Y.Q. - LI, M.P. - SHAO, X.Z. - JI, X.H. - LI, Z.Z. Synthesis of Renewable High-Density Fuel with Vanillin and Cyclopentanone Derived from Hemicellulose. In *MOLECULES*. JUL 2023, vol. 28, no. 13. Dostupné na: <https://doi.org/10.3390/molecules28135029>,

Registrované v: WOS

22. [1.1] YU, Z.J. - ZOU, Z.F. - WANG, R. - LI, G.Y. - WANG, A.Q. - CONG, Y. - ZHANG, T. - LI, N. *Synthesis of Cyclopentadiene and Methylcyclopentadiene with Xylose or Extracted Hemicellulose*. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, MAR 20 2023, vol. 62, no. 13.

Dostupné na: <https://doi.org/10.1002/anie.202300008>, Registrované v: WOS

23. [1.1] ZHANG, L. - CHENG, L.L. - HU, Y.C. - XIAO, Q.G. - CHEN, X.F. - LU, W.Y. *Robust Co₃O₄ nanocatalysts supported on biomass-derived porous N-doped carbon toward low-pressure hydrogenation of furfural*. In *FRONTIERS OF MATERIALS SCIENCE*. ISSN 2095-025X, JUN 2023, vol. 17, no. 2. Dostupné na: <https://doi.org/10.1007/s11706-023-0645-9>, Registrované v: WOS

24. [1.1] ZHANG, L.K. - ZHONG, Y. - WANG, J. - ZENG, Z.L. - DENG, S.G. - ZOU, J.J. - DENG, Q. *Intermetallic Palladium-Zinc Nanoparticles for the Ultrasensitive Hydrogenative Rearrangement of Furan Compounds*. In *ACS CATALYSIS*. ISSN 2155-5435, SEP 27 2023, vol. 13, no. 20, p. 13205-13214.

Dostupné na: <https://doi.org/10.1021/acscatal.3c03189>, Registrované v: WOS

25. [1.1] ZHANG, X.Q. - SHAO, Y.W. - SUN, K. - FAN, M.J. - ZHANG, S. - HU, X. *Introduction of NiSO₄ to Ni/SiO₂ catalyst in hydrogenation of furfuryl alcohol: Tailoring metallic nickel sites to switch major product from tetrahydrofurfuryl alcohol to cyclopentanone*. In *MOLECULAR CATALYSIS*. ISSN 2468-8231, MAY 2023, vol. 542. Dostupné na: <https://doi.org/10.1016/j.mcat.2023.113136>, Registrované v: WOS

26. [1.2] DUTTA, Saikat. *Valorization of biomass-derived furfurals: reactivity patterns, synthetic strategies, and applications*. In *Biomass Conversion and Biorefinery*, 2023-08-01, 13, 12, pp. 10361-10386. ISSN 21906815. Dostupné na: <https://doi.org/10.1007/s13399-021-01924-w>, Registrované v: SCOPUS

27. [1.2] KIMURA, Kentaro - KAKUTA, Yusuke - WATANABE, Eri - KURIHARA, Kiyofumi. *Effect of formation behavior of hydrocarbons and solid component from cellulose on catalytic transfer hydrogenation in straight-chain aliphatic hydrocarbon solvent*. In *Biomass Conversion and Biorefinery*, 2023-07-01, 13, 11, pp. 9903-9917. ISSN 21906815. Dostupné na: <https://doi.org/10.1007/s13399-021-01823-0>, Registrované v: SCOPUS

28. [1.2] WEIXIN, Bai - DANHUI, Li - JIANPING, Gao - LILI, Zhao - JINGJUN, Ma. *RESEARCH PROGRESS IN SYNTHESIS OF CYCLOPENTANONE BY HYDROGENATION OF FURFURAL*. In *Speciality Petrochemicals*, 2023-05-01, 40, 3, pp. 58-63. ISSN 10039384. Dostupné na:

<https://doi.org/10.20075/j.cnki.issn.1003-9384.2023.03.014>, Registrované v: SCOPUS

ADCA163 HRONEC, M.** - FULAJTÁROVÁ, K. - HORVÁTH, B. - LIPTAJ, T. - DOBROČKA, Edmund. *A facile conversion of furfural to novel tetrahydrofurfuryl hemiacetals*. In *Applied Catalysis A: General*, 2020, vol. 594, no. 117471. (2019: 5.006 - IF, Q1 - JCR, 1.163 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0926-860X. Dostupné na: <https://doi.org/10.1016/j.apcata.2020.117471>

Citácie:

1. [1.1] RAUT, S.U. - BHAGAT, P.R. *Efficient photocatalytic acetalization of furfural to biofuel components using carboxyl-functionalized porphyrin photocatalyst, under visible light irradiations*. In *BIOMASS CONVERSION AND BIOREFINERY*. ISSN 2190-6815, JUN 2023, vol. 13, no. 9, p. 7737-7754.

Dostupné na: <https://doi.org/10.1007/s13399-021-01658-9>, Registrované v: WOS

ADCA164 HRUBČÍN, Ladislav - GUROV, J.B. - ZAŤKO, Bohumír - IVANOV, O.M. - MITROFANOV, S.V. - ROZOV, S.V.** - SANDUKOVSKY, V.G. - SEMIN, V.A.

- SKURATOV, V.A. A study of the radiation hardness of Si and SiC detectors using a Xe ion beam. In *Instruments and Experimental Techniques*, 2018, vol. 61, iss. 6, p. 769-771. (2017: 0.613 - IF, Q4 - JCR, 0.314 - SJR, Q3 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0020-4412. Dostupné na: <https://doi.org/10.1134/S0020441218060192> (VEGA 2/0092/18)

Citácie:

1. [1.1] ZHANG, L.L. - WANG, Y. - GUO, H.M. - HU, H.F. - LIU, Y.T. - CHEN, S.Z. *Improving Detection Efficiency of Silicon Carbide Neutron Detector Using Double Trench*. In *IEEE SENSORS JOURNAL*. ISSN 1530-437X, MAR 1 2023, vol. 23, no. 5, p. 4302-4310. Dostupné na:

<https://doi.org/10.1109/JSEN.2023.3238164>, Registrované v: WOS

ADCA165 HRUBČÍN, Ladislav - GUROV, J.B. - ZAŤKO, Bohumír - MITROFANOV, S.V. - ROZOV, S.V.** - SEDLAČKOVÁ, K. - SANDUKOVSKY, V.G. - SEMIN, V.A. - NEČAS, V. - SKURATOV, V.A. Characteristics of Si and SiC detectors at registration of Xe ions. In *Journal of Instrumentation*, 2018, vol. 13, no. P11005. (2017: 1.258 - IF, Q3 - JCR, 0.642 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 1748-0221. Dostupné na: <https://doi.org/10.1088/1748-0221/13/11/P11005>

Citácie:

1. [1.1] ZHANG, X.P. - SONG, Z.H. - ZHANG, J.F. - LIU, L.Y. - LIU, J.L. - YI, H. - CHEN, Y.H. - JIANG, W. *Measurement of the neutron energy response curve of 4H-SiC detector based fission target detection system at the CSNS Back-n white neutron source*. In *JOURNAL OF INSTRUMENTATION*. ISSN 1748-0221, SEP 2023, vol. 18, no. 9. Dostupné na: <https://doi.org/10.1088/1748-0221/18/09/P09038>, Registrované v: WOS

ADCA166 HRUBČÍN, Ladislav - GUROV, J.B. - ZAŤKO, Bohumír - BOHÁČEK, Pavol - ROZOV, S.V.** - ROZOV, I.E. - SANDUKOVSKY, V.G. - SKURATOV, V.A. The amplitude defect of SiC detectors during the recording of accelerated Xe ions. In *Physics of atomic nuclei*, 2019, vol. 82, p. 1682-1685. (2018: 0.458 - IF, Q4 - JCR, 0.277 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1063-7788. Dostupné na: <https://doi.org/10.1134/S1063778819120111>

Citácie:

1. [1.1] ZHANG, X.P. - SONG, Z.H. - ZHANG, J.F. - LIU, L.Y. - LIU, J.L. - YI, H. - CHEN, Y.H. - JIANG, W. *Measurement of the neutron energy response curve of 4H-SiC detector based fission target detection system at the CSNS Back-n white neutron source*. In *JOURNAL OF INSTRUMENTATION*. ISSN 1748-0221, SEP 2023, vol. 18, no. 9. Dostupné na: <https://doi.org/10.1088/1748-0221/18/09/P09038>, Registrované v: WOS

ADCA167 HUDEC, Boris - HSU, C.-W. - WANG, I-T. - LAI, W.-L. - CHANG, C.-C. - WANG, T. - FRÖHLICH, Karol - HO, C.-H. - LIN, C.-H. - HOU, T.-H. 3D resistive RAM cell design for high-density storage class memory - a review. In *Science China Information Sciences*, 2016, vol. 59, art. no. 061403. (2015: 0.885 - IF, Q3 - JCR, 0.357 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents, INSPEC, WOS, SCOPUS). ISSN 1674-733X. Dostupné na: <https://doi.org/10.1007/s11432-016-5566-0>

Citácie:

1. [1.1] LIU, N. - ZHOU, J.R. - YAO, Y.P. - ZHENG, S.Y. - FENG, W.J. - CUI, M.K. - LI, B.C. - LIU, Y. - HAO, Y. - HAN, G.Q. *HfO₂-Based Ferroelectric Optoelectronic Memcapacitors*. In *IEEE ELECTRON DEVICE LETTERS*. ISSN 0741-3106, MAR 2023, vol. 44, no. 3, p. 524-527. Dostupné na:

<https://doi.org/10.1109/LED.2023.3235909>, Registrované v: WOS

2. [1.1] YANG, S. - KIM, T. - KIM, S. - CHUNG, D. - KIM, T.H. - LEE, J.K. -

KIM, S. - ISMAIL, M. - MAHATA, C. - KIM, S. - CHO, S. Synaptic plasticity and non-volatile memory characteristics in TiN-nanocrystal-embedded 3D vertical memristor-based synapses for neuromorphic systems. In NANOSCALE. ISSN 2040-3364, AUG 17 2023, vol. 15, no. 32, p. 13239-13251. Dostupné na: <https://doi.org/10.1039/d3nr01930f>, Registrované v: WOS

3. [1.1] ZAHOOR, F. - HUSSIN, F.A. - ISYAKU, U.B. - GUPTA, S. - KHANDAY, F.A. - CHATTOPADHYAY, A. - ABBAS, H. Resistive random access memory: introduction to device mechanism, materials and application to neuromorphic computing. In DISCOVER NANO. MAR 9 2023, vol. 18, no. 1. Dostupné na: <https://doi.org/10.1186/s11671-023-03775-y>, Registrované v: WOS

ADCA168 HUDEEC, Boris - PASKALEVA, A. - JANČOVIČ, Peter - DÉRER, Ján - FEDOR, Ján - ROSOVÁ, Alica - DOBROČKA, Edmund - FRÖHLICH, Karol. Resistive switching in TiO₂-based metal-insulator-metal structures with Al₂O₃ barrier layer at the metal/dielectric interface. In Thin Solid Films, 2014, vol. 563, p. 10-14. (2013: 1.867 - IF, Q2 - JCR, 0.818 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0040-6090. Dostupné na: <https://doi.org/10.1016/j.tsf.2014.02.030>

Citácie:

1. [1.1] BASNET, P. - ANDERSON, E.C. - ATHENA, F.F. - CHAKRABARTI, B. - WEST, M.P. - VOGEL, E.M. Asymmetric Resistive Switching of Bilayer HfO_x/AlO_y and AlO_y/HfO_x Memristors: The Oxide Layer Characteristics and Performance Optimization for Digital Set and Analog Reset Switching. In ACS APPLIED ELECTRONIC MATERIALS. MAR 28 2023, vol. 5, no. 3, p. 1859-1865. Dostupné na: <https://doi.org/10.1021/acsaelm.3c00079>, Registrované v: WOS

ADCA169 HUDEEC, Boris - HUŠEKOVÁ, Kristína - DOBROČKA, Edmund - AARIK, J. - RAMMULA, R. - KASIKOV, A. - TARRE, A. - VINCZE, A. - FRÖHLICH, Karol. Atomic layer deposition grown metal-insulator-metal capacitors with RuO₂ electrodes and Al-doped rutile TiO₂ dielectric layer. In Journal of Vacuum Science and Technology B, 2011, vol. 29, 01AC09. (2010: 1.271 - IF, Q2 - JCR, 0.900 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1071-1023. Dostupné na: <https://doi.org/10.1116/1.3534023>

Citácie:

1. [1.1] PADHI, P.S. - AJIMSHA, R.S. - RAI, S.K. - BOSE, A. - MISRA, P. Effect of Al₂O₃ layer thickness on leakage current and dielectric properties of atomic layer deposited Al₂O₃/TiO₂/Al₂O₃ nano-stack. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. ISSN 0957-4522, MAY 2023, vol. 34, no. 14. Dostupné na: <https://doi.org/10.1007/s10854-023-10615-3>, Registrované v: WOS

ADCA170 HUDEEC, Boris - HUŠEKOVÁ, Kristína - ROSOVÁ, Alica - ŠOLTÝS, Ján - RAMMULA, R. - KASIKOV, A. - UUSTARE, T. - MÍČUŠÍK, Matej - OMASTOVÁ, Mária - AARIK, J. - FRÖHLICH, Karol. Impact of plasma treatment on electrical properties of TiO₂/RuO₂ based DRAM capacitor. In Journal of Physics D: Applied Physics, 2013, vol. 46, 385304. (2012: 2.528 - IF, Q1 - JCR, 1.279 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0022-3727. Dostupné na: <https://doi.org/10.1088/0022-3727/46/38/385304>

Citácie:

1. [1.1] DÓRIA, A.R. - GONZAGA, I.M.D. - SANTOS, G.O.S. - ALMEIDA, C.V.S. - SILVA, D.C. - SILVA, R.S. - ROMA, L.P.C. - SáEZ, C. - SALAZAR-BANDA, G.R. - EGUILUZ, K.I.B. Strong influence of the heating method on Ti/RuO₂-TiO₂ anode electrochemical and photoassisted electrochemical performance. In

APPLIED CATALYSIS B-ENVIRONMENTAL. ISSN 0926-3373, DEC 15 2023, vol. 339. Dostupné na: <https://doi.org/10.1016/j.apcatb.2023.123092>, Registrované v: WOS

2. [1.1] DÓRIA, A.R. - MORATALLA, A. - ALMEIDA, C.V.S. - SILVA, R.S. - EGUILUZ, K.I.B. - SALAZAR-BANDA, G.R. - RODRIGO, M.A. - SAÉZ, C. Influence of the calcination method and anode composition on the generation of disinfectants. In *SEPARATION AND PURIFICATION TECHNOLOGY*. ISSN 1383-5866, AUG 15 2023, vol. 319. Dostupné na:

<https://doi.org/10.1016/j.seppur.2023.124053>, Registrované v: WOS

3. [1.1] JIANG, Y. - WANG, Z.Y. - ZHOU, Q.H. - YANG, P.Z. - QIN, P. - HUANG, F.Q. - YANG, W. Highly effective ruthenium-doped mesoporous Ti_{1-x}Ru_xO_{2-y} crystals for photocatalytic tetracycline degradation. In *JOURNAL OF MATERIALS CHEMISTRY C*. ISSN 2050-7526, AUG 17 2023, vol. 11, no. 32, p. 11027-11033. Dostupné na: <https://doi.org/10.1039/d3tc01120h>, Registrované v: WOS

4. [1.1] MODAK, A. - GILL, D. - SHARMA, K. - BHASIN, V. - PANT, K.K. - JHA, S.N. - BHATTACHARYYA, D. - BHATTACHARYA, S. Facile Hydrogenolysis of Sugars to 1,2-Glycols by Ru@PPh₃/OPPh₃ Confined Large-Pore Mesoporous Silica. In *JOURNAL OF PHYSICAL CHEMISTRY LETTERS*. ISSN 1948-7185, NOV 29 2023, vol. 14, no. 48, p. 10832-10846. Dostupné na:

<https://doi.org/10.1021/acs.jpcllett.3c02740>, Registrované v: WOS

ADCA171

HULMAN, Martin** - SOJKOVÁ, Michaela - VÉGSÖ, Karol - MRKÝVKOVÁ, Naďa, Tesařová - HAGARA, Jakub - HUTÁR, Peter - KOTRUSZ, Peter - HUDEČ, Ján - TOKÁR, Kamil - MAJKOVÁ, Eva - ŠIFFALOVÍČ, Peter. Polarized Raman Reveals Alignment of Few-Layer MoS₂ Films. In *Journal of Physical Chemistry C*, 2019, vol. 123, no. 48, p. 29468-29475. (2018: 4.309 - IF, Q1 - JCR, 1.652 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/acs.jpcc.9b08708> (APVV 17-0560)

Citácie:

1. [1.1] MOTALA, M. J. - ZHANG, X. - KUMAR, P. - OLIVEIRA, E. F. - BENTON, A. - MIESLE, P. - RAO, R. - STEVENSON, P. R. - MOORE, D. - ALFIERI, A. - LYNCH, J. - AUSTIN, D. - POST, S. - GAO, G. - MA, S. - ZHU, H. - WANG, Z. - PETROV, I. - STACH, E. A. - KENNEDY, W. J. - VANGALA, S. - TOUR, J. M. - GALVAO, D. S. - JARIWALA, D. - MURATORE, C. - SNURE, M. - AJAYAN, P. M. - GLAVIN, N. R. Synthesis of two-dimensional van der waals superlattices, heterostructures, and alloys from conversion of sequentially layered sub-nanometer metal films. In *MATERIALS TODAY NANO*, 2023, vol. 22, no., pp. ISSN 2588-8420. Dostupné na: <https://doi.org/10.1016/j.mtnano.2023.100319>, Registrované v: WOS

2. [1.1] YU, Hongwei - CHEN, Long - LIU, Shihao - ZHANG, Letian - XIE, Wenfa - LEE, Chun-Sing. Solution-Processed Self-Stratifying Layer with Controllable Dielectric Polarization for High-Luminance Organic Light-Emitting Diodes. In *CHEMISTRY OF MATERIALS*, 2023, vol. 35, no. 9, pp. 3484-3493. ISSN 0897-4756. Dostupné na: <https://doi.org/10.1021/acs.chemmater.2c03630>, Registrované v: WOS

ADCA172

HURAN, Jozef - HOTOVÝ, I. - KOBZEV, A.P. - BALALYKIN, Nikolay I. RBS study of amorphous silicon carbide films deposited by PECVD. In *Czechoslovak journal of physics*. - Praha : Academia, 2004, vol. 54, p. C1006-1010. (2003: 0.263 - IF, karentované - CCC). (2004 - Current Contents, WOS, SCOPUS). ISSN 0011-4626.

Citácie:

1. [1.1] VALENCIA-GRISALES, D.F. - REYES-BETANZO, C. Study of the

- annealing effect in optical properties for phosphorus-doped a-Si_xC_{1-x}:H films deposited by PECVD. In JOURNAL OF PHYSICS D-APPLIED PHYSICS. ISSN 0022-3727, SEP 28 2023, vol. 56, no. 39. Dostupné na: <https://doi.org/10.1088/1361-6463/ace200>, Registrované v: WOS*
- ADCA173 HURAN, Jozef - HRUBČÍN, Ladislav - KOBZEV, A.P. - LIDAY, J. Properties of amorphous silicon carbide films prepared by PECVD technology. In Vacuum, 1996, vol. 47, p. 1223-1225. (1996 - Current Contents).
Citácie:
1. [1.1] HASSAN, S. - NADEEM, A.Y. - QAISER, H. - KASHIF, A.S. - AHMED, A. - KHAN, K. - ALTAF, A. A review of carbon-based materials and their coating techniques for biomedical implants applications. In CARBON LETTERS. ISSN 1976-4251, JUN 2023, vol. 33, no. 4, p. 1171-1188. Dostupné na: <https://doi.org/10.1007/s42823-023-00496-1>, Registrované v: WOS
- ADCA174 HURAN, Jozef - HOTOVÝ, I. - HAŠČÍK, Štefan - KOBZEV, A.P. - BALALYKIN, Nikolay I. Investigation of radiation damage in N doped a-SiC:H films annealed by pulsed electron beam d. In Vacuum, 2000, vol. 58, p. 428-433. (1999: 0.510 - IF, karentované - CCC). (2000 - Current Contents).
Citácie:
1. [1.1] VALENCIA-GRISALES, D.F. - REYES-BETANZO, C. Study of the annealing effect in optical properties for phosphorus-doped a-Si_xC_{1-x}:H films deposited by PECVD. In JOURNAL OF PHYSICS D-APPLIED PHYSICS. ISSN 0022-3727, SEP 28 2023, vol. 56, no. 39. Dostupné na: <https://doi.org/10.1088/1361-6463/ace200>, Registrované v: WOS
- ADCA175 HUSANÍKOVÁ, Petra - KAČMARČÍK, Jozef - CAMBEL, Vladimír - KARAPETROV, Goran. Superconducting and normal state parameters of single crystal Cu_{0.10}TiSe₂. In Solid State Communications, 2011, vol. 151, no. 3, p. 227-228. (2010: 1.981 - IF, Q2 - JCR, 1.356 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, WOS, SCOPUS). ISSN 0038-1098. Dostupné na: <https://doi.org/10.1016/j.ssc.2010.11.027>
Citácie:
1. [1.1] NAIK, S. - SARANGI, S.N. - SAMAL, D. - SAMAL, S.L. Effect of an inner-transition metal (Dy) intercalation on the structure and magnetic properties of 1T-TiSe₂. In JOURNAL OF SOLID STATE CHEMISTRY. ISSN 0022-4596, FEB 2023, vol. 318. Dostupné na: <https://doi.org/10.1016/j.jssc.2022.123782>, Registrované v: WOS
- ADCA176 HUSS-HANSEN, M.K. - HODAS, Martin - MRKÝVKOVÁ, Nad'a, Tesařová - HAGARA, Jakub - NÁDAŽDY, Peter - SOJKOVÁ, Michaela - HøEGH, S.O. - VLAD, A. - PANDIT, P. - MAJKOVÁ, Eva - ŠIFFALOVÍČ, Peter - SCHREIBER, F. - KJELSTRUP-HANSEN, J. - KNAAPILA, M. Early-stage growth observations of orientation-controlled vacuum-deposited naphthyl end-capped oligothiophenes. In Physical Review Materials, 2021, vol. 5, no. 5, art. no. 053402. (2020: 3.989 - IF, Q2 - JCR, 1.439 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2475-9953. Dostupné na: <https://doi.org/10.1103/PhysRevMaterials.5.053402>
Citácie:
1. [1.1] LEE, Da Hwan - SON, Hee Won - LE, Thi Na - PARK, Eun Young - KIM, Ji Hun - SUH, Min Chul. Effect of host polarity on efficiency of thermally activated delayed fluorescent and hyperfluorescent organic light emitting devices. In JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, 2023, vol. 117, no., pp. 140-148. ISSN 1226-086X. Dostupné na: <https://doi.org/10.1016/j.jiec.2022.09.049>, Registrované v: WOS
- ADCA177 HUŠEK, Imrich - KOVÁČ, Pavol - KOPERA, Ľubomír. Study of BSCCO-core density in multicore Ag sheathed tapes by microhardness profiles. In Superconductor

Science and Technology, 1996, vol. 9, p. 1066. (1995: 1.493 - IF, karentované - CCC). (1996 - Current Contents, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] YAO, C. - GUO, W.W. - ZHU, Y.C. - LIU, X.Y. - HAN, M. - LIU, F. - LIU, H.J. - QIN, J.G. - ZHENG, J.X. - MA, Y.W. *Interface effects on the current transport properties of multi-layered (Ba, K)Fe₂As₂ superconducting wires. In JOURNAL OF MATERIALS CHEMISTRY C. ISSN 2050-7526, JAN 26 2023, vol. 11, no. 4, p. 1470-1482. Dostupné na: <https://doi.org/10.1039/d2tc04111a>, Registrované v: WOS*

ADCA178 HUŠEK, Imrich - KOVÁČ, Pavol - MELIŠEK, Tibor - KOPERA, Ľubomír. Thermally stabilized MgB₂ composite wires with different barriers. In Cryogenics, 2011, vol. 51, p. 550-554. (2010: 1.130 - IF, Q2 - JCR, 0.589 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0011-2275. Dostupné na: <https://doi.org/10.1016/j.cryogenics.2011.07.006>

Citácie:

1. [1.1] QIAO, Y.K. - RINDFLEISCH, M. - TOMSIC, M. - SUMPTION, M.D. - AMEMIYA, N. - BADCOCK, R.A. - STRICKLAND, N.M. - JIANG, Z.A. *Measurement of twisted multifilamentary MgB₂ wires with non-magnetic sheath over a wide range of temperatures and fields. In SUPERCONDUCTIVITY. DEC 2023, vol. 8. Dostupné na: <https://doi.org/10.1016/j.supcon.2023.100072>, Registrované v: WOS*

ADCA179 HUŠEK, Imrich - KOVÁČ, Pavol - ROSOVÁ, Alica - MELIŠEK, Tibor - PACHLA, W. - HAIN, Miroslav. Advanced MgB₂ wire made by internal magnesium diffusion process. In Journal of Alloys and Compounds, 2014, vol. 588, p. 366-369. (2013: 2.726 - IF, Q1 - JCR, 1.064 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2013.11.101>

Citácie:

1. [1.1] AVCI, D. - YETIS, H. - GAJDA, D. - BABIJ, M. - TRAN, L.M. - KARABOGA, F. - AKSOY, C. - ZALESKI, A. - BELENLI, I. *Optimized superconducting MgB₂ joint made by IMD technique. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, JUL 1 2023, vol. 36, no. 7. Dostupné na: <https://doi.org/10.1088/1361-6668/accf3f>, Registrované v: WOS*

ADCA180 HUŠEK, Imrich - KOVÁČ, Pavol** - MELIŠEK, Tibor - HAIN, Miroslav. Superconducting joints between MgB₂/Ni and MgB₂/Nb composite wires, their transport currents and micro-structure. In Ceramics International, 2023, vol. 49, p. 11178-11183. (2022: 5.2 - IF, Q1 - JCR, 0.918 - SJR, Q1 - SJR). ISSN 0272-8842. Dostupné na: <https://doi.org/10.1016/j.ceramint.2022.11.314> (VEGA 2/0140/19. APVV 18-0271)

Citácie:

1. [1.1] LIANG, H. - PATEL, D. - SHAHBAZI, M. - MORAWSKI, A. - GAJDA, D. - RINDFLEISCH, M. - TAYLOR, R. - YAMAUCHI, Y. - HOSSAIN, M.S.A. *Recent progress in MgB₂ superconducting joint technology. In JOURNAL OF MAGNESIUM AND ALLOYS. ISSN 2213-9567, JUL 2023, vol. 11, no. 7, p. 2217-2229. Dostupné na: <https://doi.org/10.1016/j.jma.2023.07.010>, Registrované v: WOS*

ADCA181 HUŠEKOVÁ, Kristína - HUŠEK, Imrich - KOVÁČ, Pavol - KULICH, Miloslav - DOBROČKA, Edmund - ŠTRBÍK, Vladimír. Properties of MgB₂ superconductor chemically treated by acetic acid. In Physica C, 2010, vol. 470, p. 331-335. (2009: 0.723 - IF, Q3 - JCR, 0.422 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 0921-4534. Dostupné na: <https://doi.org/10.1016/j.physc.2010.02.001>

Citácie:

1. [1.1] MAEDA, M. - MATSUMOTO, A. - NISHIJIMA, G. - HEO, Y.U. - HAHN, S. - LEE, S. - CHOI, S. - KIM, J.H. Performance of MgB₂ superconducting wire fabricated with non- identical Mg particles. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, SEP 5 2023, vol. 954. Dostupné na:

<https://doi.org/10.1016/j.jallcom.2023.170148>, Registrované v: WOS

ADCA182

CHAUHAN, Prerna** - HASENÖHRL, Stanislav - DOBROČKA, Edmund - VANČO, L. - STOKLAS, Roman - KOVÁČ, Jaroslav - ŠIFFALOVÍČ, Peter - KUZMÍK, Ján. Effect of temperature and carrier gas on the properties of thick In_xAl_{1-x}N layer. In Applied Surface Science, 2019, vol. 470, p. 1-7. (2018: 5.155 - IF, Q1 - JCR, 1.115 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na:

<https://doi.org/10.1016/j.apsusc.2018.10.231>

Citácie:

1. [1.1] ZHANG, Lidong - DENG, Gaoqiang - TAO, Tao - ZUO, Changcai - GUAN, Tao - NIU, Yunfei - YU, Jiaqi - WANG, Yusen - MA, Haotian - LIU, Bin - ZHANG, Baolin - ZHANG, Yuantao. Demonstration of Weak Polarization Electric Field III-N LEDs based on Polar Plane. In LASER & PHOTONICS REVIEWS, 2023, vol. 17, no. 10, pp. ISSN 1863-8880. Dostupné na:

<https://doi.org/10.1002/lpor.202300400>, Registrované v: WOS

2. [1.2] He, X., Liu, R., Xue, Y., Zuo, R.: Review of gas phase and surface reactions in AlN MOCVD In Huagong Xuebao/CIESC Journal 74(2023), pp. 2800-2813, Registrované v: SCOPUS

ADCA183

CHAUHAN, Prerna** - HASENÖHRL, Stanislav - VANČO, L. - ŠIFFALOVÍČ, Peter - DOBROČKA, Edmund - MACHAJDÍK, Daniel - ROSOVÁ, Alica - GUCMANN, Filip - KOVÁČ, Jaroslav Jr. - MAŤKO, Igor - KUBALL, M. - KUZMÍK, Ján. A systematic study of MOCVD reactor conditions and Ga memory effect on properties of thick InAl(Ga)N layers: A complete depth-resolved investigation. In CrystEngComm, 2020, vol. 22, no. 1, p. 130-141. (2019: 3.117 - IF, Q2 - JCR, 0.814 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1466-8033. Dostupné na: <https://doi.org/10.1039/c9ce01549c>

Citácie:

1. [1.1] CHEN, Wei-Chun - CHIU, Kun-An - CHEN, Hung-Pin - LIN, Yu-Wei - CHEN, Che-Chin - CHEN, Fong-Zhi. Effects of growth temperature on structural and electrical properties of in-rich InAlN-GaN heterostructures by radio-frequency metal-organic molecular beam epitaxy. In SURFACE TOPOGRAPHY-METROLOGY AND PROPERTIES, 2023, vol. 11, no. 2, pp. ISSN 2051-672X.

Dostupné na: <https://doi.org/10.1088/2051-672X/acce51>, Registrované v: WOS

ADCA184

CHEANG-WONG, J.C. - JERGEL, Milan - ANDRADE, E. - FALCONY, C. - MORALES, A. - CONDE-GALLARDO, A. Correlation between the Tl concentration depth profiles and the thallination time in Tl-Ba-Ca-Cu-O superconducting films. In Nuclear Instruments and Methods in Physical Research B, 1998, vol. 136-138, p. 1300-1305. (1997: 1.016 - IF, karentované - CCC). (1998 - Current Contents).

Citácie:

1. [1.2] HAN, Xu - JIN, Yanying - ZENG, Li - YUE, Hongwei - JIANG, Yanling - TANG, Pingying - HUANG, Guohua - XIE, Qinglian. Growth and Properties of Tl-1223 High Temperature Superconducting Films on Sapphire Single Crystal Substrates. In Rengong Jingti Xuebao/Journal of Synthetic Crystals, 2023-04-01, 52, 4, pp. 629-635. ISSN 1000985X., Registrované v: SCOPUS

ADCA185

CHEN, D.-X.** - ZHU, Y.-H. - XIANG, L.-X. - DING, J.-Q. - PARDO, Enric. Calibration of a permeameter for measuring soft magnetic materials using long

cylindrical samples characterized by demagnetizing-corrected solenoid method. In Journal of Magnetism and Magnetic Materials, 2018, vol. 458, p. 137-146. (2017: 3.046 - IF, Q2 - JCR, 0.786 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2018.02.088>

Citácie:

1. [1.1] ZENG, S.X. - LI, H.M. - ZHAO, C.T. Magneto-mechanical coupling effect of ferromagnetic materials: Test characteristics and theoretical model. In JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS. ISSN 0304-8853, OCT 1 2023, vol. 583. Dostupné na:

<https://doi.org/10.1016/j.jmmm.2023.170981>, Registrované v: WOS

ADCA186 CHEN, D.-X.** - PARDÓ, Enric - ZHU, Y.-H. - XIANG, L.-X. - DING, J.-Q. Demagnetizing correction in fluxmetric measurements of magnetization curves and hysteresis loops of ferromagnetic cylinders. In Journal of Magnetism and Magnetic Materials, 2018, vol. 449, p. 447-454. (2017: 3.046 - IF, Q2 - JCR, 0.786 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2017.10.069>

Citácie:

1. [1.1] ZENG, S.X. - LI, H.M. - ZHAO, C.T. Magneto-mechanical coupling effect of ferromagnetic materials: Test characteristics and theoretical model. In JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS. ISSN 0304-8853, OCT 1 2023, vol. 583. Dostupné na:

<https://doi.org/10.1016/j.jmmm.2023.170981>, Registrované v: WOS

ADCA187 CHOVANEC, František - UŠÁK, Pavol - KOKAVEC, Ján - SIDOROV, M. Quench behaviour of adiabatic NbTi superconducting winding under controlled stress. In Cryogenics, 1994, vol. 34, p. S521.

Citácie:

1. [1.1] ZHENG, J.X. - ZOU, C.L. - LIU, X.F. - DONG, Y.J. - ZHU, L. - NI, X.J. - YU, X.W. Development of High Current Density, Compactness NbTi Superconducting Coil for the Maglev System. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, JAN 2023, vol. 33, no. 1.

Dostupné na: <https://doi.org/10.1109/TASC.2022.3224615>, Registrované v: WOS

ADCA188 CHROMIK, Štefan - HANIC, František - ADAM, Roman - JERDEL, Milan - LIDAY, J. - BEŇAČKA, Štefan. High Tc Y-Ba-Cu-O thin films prepared by in situ low temperature codeposition of Y, BaF₂ and Cu on -Al₂O₃ substrates. In Applied Physics Letters, 1990, vol. 56, p. 2237.

Citácie:

1. [1.2] Raghunathan, V.S., Kuppusami, P., Mohandas, E., Raju, S.: CERAMICS: DEFECTS IN THIN FILMS OF HIGH TEMPERATURE SUPERCONDUCTING COMPOUNDS In Advances in Physical Metallurgy (2023) pp. 462-471, Registrované v: SCOPUS

ADCA189 CHROMIK, Štefan - BEŇAČKA, Štefan - GAŽI, Štefan - ÖSZI, Zsolt - KOSTIČ, Ivan. Superconducting properties of MgB₂ thin films prepared by sequential deposition of boron and magnesium. In Vacuum, 2002, vol. 69, p. 351-356. Dostupné na: [https://doi.org/10.1016/S0042-207X\(02\)00357-3](https://doi.org/10.1016/S0042-207X(02)00357-3)

Citácie:

1. [1.2] Ma, Y., Duan, H., Dai, J., Zhang, P., Yang, Y., He, P., Dong, H.: Niobium Coating by Magnetron Sputtering in 1.3 GHz High Frequency Copper Cavity. In Zhenkong Kexue yu Jishu Xuebao/Journal of Vacuum Science and Technology Volume 43, Issue 1, Pages 29 - 35, 2023, Registrované v: SCOPUS

ADCA190 CHROMIK, Štefan - SOJKOVÁ, Michaela - VRETENÁR, Viliam - ROSOVÁ, Alica - DOBROČKA, Edmund - HULMAN, Martin. Influence of GaN/AlGaIn/GaN

(0001) and Si (100) substrates on structural properties of extremely thin MoS₂ films grown by pulsed laser deposition. In *Applied Surface Science*, 2017, vol. 395, p. 232-236. (2016: 3.387 - IF, Q1 - JCR, 0.958 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2016.06.038>

Citácie:

1. [1.1] GIANNAZZO, F. - PANASCI, S.E. - SCHILIRO, E. - GRECO, G. - ROCCAFORTE, F. - SFUNCIA, G. - NICOTRA, G. - CANNAS, M. - AGNELLO, S. - FRAYSSINET, E. - CORDIER, Y. - MICHON, A. - KOOS, A. - PECZ, B. *Atomic resolution interface structure and vertical current injection in highly uniform MoS₂ heterojunctions with bulk GaN. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, SEP 15 2023, vol. 631. Dostupné na:*

<https://doi.org/10.1016/j.apsusc.2023.157513>, Registrované v: WOS

ADCA191

CHROMIK, Štefan - CAMERLINGO, C. - SOJKOVÁ, Michaela - ŠTRBÍK, Vladimír - TALACKO, Marcel - MALKÁ, I. - BAR, I. - BARELI, G. - JUNG, G. Low energy electron beam processing of YBCO thin films. In *Applied Surface Science*, 2017, vol. 395, p. 42-49. (2016: 3.387 - IF, Q1 - JCR, 0.958 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2016.07.086>

Citácie:

1. [1.1] WANG, Y. - ZHAO, S.C. - ZENG, Z.G. - JIA, Z.Y. - XIAO, S.L. - WU, K.R. - CAI, C.B. *Improved Superconducting Performance of YBCO-Coated Conductors by Low Energy Density Argon Ion Etching. In JOURNAL OF LOW TEMPERATURE PHYSICS. ISSN 0022-2291, FEB 2023, vol. 210, no. 3-4, p. 484-497. Dostupné na: <https://doi.org/10.1007/s10909-022-02856-z>, Registrované v: WOS*

ADCA192

CHROMIK, Štefan - ŠTRBÍK, Vladimír - DOBROČKA, Edmund - ROCH, T. - ROSOVÁ, Alica - ŠPANKOVÁ, Marianna - LALINSKÝ, Tibor - VANKO, Gabriel - LOBOTKA, Peter - RALBOVSKÝ, M. - CHOLEVA, P. LSMO thin films with high metal-insulator transition temperature on buffered SOI substrates for uncooled microbolometers. In *Applied Surface Science*, 2014, vol. 312, p. 30-33. (2013: 2.538 - IF, Q1 - JCR, 0.965 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2014.05.051>

Citácie:

1. [1.1] CHATTERJEE, S. - LABAR, R. - NOORUDDIN, M.A.K. - ROY, S. - KUNDU, T.K. *DC conductivity mechanism in La_{0.7}Sr_{0.3}MnO₃ (LSMO)-ZnO nanocomposites. In JOURNAL OF APPLIED PHYSICS. ISSN 0021-8979, AUG 14 2023, vol. 134, no. 6. Dostupné na: <https://doi.org/10.1063/5.0151397>, Registrované v: WOS*

2. [1.1] GU, X. - JIN, S.Z. - GUAN, X.L. - YU, X.H. - YU, Z.Y. - YAN, Y.X. - WU, K.K. - ZHAO, L.M. - LIU, X. *Comparative study of La_{0.7}Ca_{0.18}Sr_{0.12}MnO₃ films with room-temperature TCR grown on SrTiO₃, La_{0.3}Sr_{0.7}Al_{0.65}Ta_{0.35}O₃ and LaAlO₃ substrates. In CERAMICS INTERNATIONAL. ISSN 0272-8842, JUL 15 2023, vol. 49, no. 14, A, p. 22952-22960. Dostupné na:*

<https://doi.org/10.1016/j.ceramint.2023.04.120>, Registrované v: WOS

3. [1.1] SARKAR, N. - HAN, J.W. - DALAYOAN, D.J.C. - BEHERA, S. - LEE, S.H. - CHEN, C. - KIM, D.S. - SOHN, C. - NAMGUNG, S. *Nanoscale Etching of La_{0.7}Sr_{0.3}MnO₃ Without Etch Lag Using Chlorine Based Inductively Coupled Plasma. In ELECTRONIC MATERIALS LETTERS. ISSN 1738-8090, JUL 2023, vol. 19, no. 4, p. 384-390. Dostupné na: <https://doi.org/10.1007/s13391-022-00404-1>, Registrované v: WOS*

4. [1.1] WU, K.K. - GUAN, X.L. - LI, H.J. - GU, X. - YU, Z.Y. - JIN, S.Z. - YU, X.H. - YAN, Y.X. - ZHAO, L.M. - LIU, H.X. - LIU, X. Enhanced electrical transport properties of polycrystalline $\text{La}_{0.67}\text{Sr}_x\text{Ca}_{0.23-x}\text{K}_{0.1}\text{MnO}$ ceramics through A-site multielement co-doping. In CERAMICS INTERNATIONAL. ISSN 0272-8842, JAN 1 2023, vol. 49, no. 1, p. 1344-1350. Dostupné na: <https://doi.org/10.1016/j.ceramint.2022.09.115>, Registrované v: WOS

5. [1.1] YAN, Y.X. - JIN, S.Z. - YU, X.H. - GUAN, X.L. - WU, K.K. - ZHAO, L.M. - GU, X. - LIU, X. Utilization of Ag ions to improve room-temperature TCR of $\text{La}_{0.85-x}\text{Sr}_{0.15}\text{Ag}_x\text{MnO}_3$ polycrystalline ceramics. In CERAMICS INTERNATIONAL. ISSN 0272-8842, JAN 1 2023, vol. 49, no. 1, p. 669-676. Dostupné na: <https://doi.org/10.1016/j.ceramint.2022.09.036>, Registrované v: WOS

6. [1.2] KANG, Jun Gu - JEEN, H. J. - YANG, Imjeong. Thermal Conductivity of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3/\text{LSMO}$ Thin Films and the Interfacial Thermal Resistance of LSMO and SrTiO_3 with Temperature. In New Physics: Sae Mulli, 2023-01-01, 73, 1, pp. 1-6. ISSN 03744914. Dostupné na: <https://doi.org/10.3938/NPSM.73.1>, Registrované v: SCOPUS

ADCA193 IAVARONE, M. - KARAPETROV, Goran - FEDOR, Ján - ROSENMAN, D. - NISHIZAKI, T. - KOBAYASHI, N. The local effect of magnetic impurities on superconductivity in Co_xNbSe_2 and Mn_xNbSe_2 single crystals. In Journal of Physics: Condensed Matter, 2010, vol. 22, 015501. (2009: 1.964 - IF, Q2 - JCR, 1.525 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, SCOPUS). ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/0953-8984/22/1/015501>

Citácie:

1. [1.1] FEIJOO, J. - IUCCI, A. - LOBOS, A.M. Subgap states and quantum phase transitions in one-dimensional superconductor-ferromagnetic insulator heterostructures. In PHYSICAL REVIEW B. ISSN 2469-9950, JUN 7 2023, vol. 107, no. 21. Dostupné na: <https://doi.org/10.1103/PhysRevB.107.214505>, Registrované v: WOS

2. [1.1] SOUSA, S.D. - DOS SANTOS, R.R. - COSTA, N.C. Magnetic impurities in a charge-ordered background. In PHYSICAL REVIEW B. ISSN 2469-9950, FEB 21 2023, vol. 107, no. 7. Dostupné na: <https://doi.org/10.1103/PhysRevB.107.075140>, Registrované v: WOS

ADCA194 IAVARONE, M. - MOORE, S.A. - FEDOR, Ján - CIOCYS, S.T. - KARAPETROV, Goran - PEARSON, J.E. - NOVOSAD, V. - BADER, S.D. Visualizing domain wall and reverse domain superconductivity. In Nature Communications, 2014, vol. 5, p. 4766. (2013: 10.742 - IF, Q1 - JCR, 5.967 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 2041-1723. Dostupné na: <https://doi.org/10.1038/ncomms5766>

Citácie:

1. [1.1] ALADYSHKIN, A.Y. Oscillatory Bias Dependence of the Visible Height of Monatomic Pb(111) Steps: Consequence of the Quantum-Size Effect for Thin Metallic Films. In JOURNAL OF PHYSICAL CHEMISTRY C. ISSN 1932-7447, JUL 3 2023, vol. 127, no. 27, p. 13295-13301. Dostupné na: <https://doi.org/10.1021/acs.jpcc.3c02415>, Registrované v: WOS

2. [1.1] MEL'NIKOV, A.S. - MIRONOV, S.V. - SAMOKHVALOV, A.V. - BUZDIN, A.I. Superconducting spintronics: state of the art and prospects. In PHYSICS-USPEKHI. ISSN 1063-7869, DEC 2022, vol. 65, no. 12, p. 1248-1289. Dostupné na: <https://doi.org/10.3367/UFNe.2021.07.039020>, Registrované v: WOS

3. [1.1] USPENSKAYA, L.S. - EGOROV, S.V. Diode Effect in

Gd₃Ga₅O₁₂/Y₃Fe₅O₇ subD/Nb Structures. In JOURNAL OF SURFACE INVESTIGATION. ISSN 1027-4510, DEC 2023, vol. 17, no. SUPPL 1, p. S404-S408. Dostupné na: <https://doi.org/10.1134/S1027451023070546>, Registrované v: WOS

ADCA195 IAVARONE, M. - MOORE, S.A. - FEDOR, Ján - NOVOSAD, V. - PEARSON, J.A. - KARAPETROV, Goran. Influence of domain width on vortex nucleation in superconductor/ferromagnet hybrid structures. In Journal of Superconductivity and Novel Magnetism, 2015, vol. 28, p. 1107-1110. (2014: 0.909 - IF, Q4 - JCR, 0.381 - SJR, Q3 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1557-1939. Dostupné na: <https://doi.org/10.1007/s10948-014-2650-9>

Citácie:

1. [1.1] FRANKE, K.J.A. - OPHUS, C. - SCHMID, A.K. - MARROWS, C.H. 60° and 120° degree domain walls in epitaxial BaTiO₃(111)/Co multiferroic heterostructures. In PHYSICAL REVIEW B. ISSN 2469-9950, APR 19 2023, vol. 107, no. 14. Dostupné na: <https://doi.org/10.1103/PhysRevB.107.L140407>, Registrované v: WOS

2. [1.1] ZHONG, Y. - DU, S. - YAO, S. - PENG, L. - CHEN, J. - SANG, L. - LIN, J. - LIU, X. Influence of Inhomogeneous Magnetic Field on Dynamic Behavior of Vortex-Antivortex Chains in the Superconductor/Ferromagnet Bilayer Structures. In ACTA PHYSICA POLONICA A. ISSN 0587-4246, JUL 2023, vol. 144, no. 1, p. 7-14. Dostupné na: <https://doi.org/10.12693/APhysPolA.144.7>, Registrované v: WOS

ADCA196 IAVARONE, M. - KARAPETROV, Goran - FEDOR, Ján - ROSENMANN, D. The spectroscopic signature of the Co magnetic state in CoxNbSe₂ superconducting single crystals. In Superconductor Science and Technology, 2011, vol. 24, 024010. (2010: 2.402 - IF, Q1 - JCR, 1.480 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, SCOPUS). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/24/2/024010>

Citácie:

1. [1.1] SOUSA, S.D. - DOS SANTOS, R.R. - COSTA, N.C. Magnetic impurities in a charge-ordered background. In PHYSICAL REVIEW B. ISSN 2469-9950, FEB 21 2023, vol. 107, no. 7. Dostupné na: <https://doi.org/10.1103/PhysRevB.107.075140>, Registrované v: WOS

ADCA197 IHARAGI, T. - GENDIAR, Andrej - UEDA, H. - NISHINO, T. Phase transition of the ising model on a hyperbolic lattice. In Journal of the Physical Society of Japan, 2010, vol. 79, no. 10, 104001. (2009: 2.572 - IF, Q2 - JCR, 2.074 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0031-9015. Dostupné na: <https://doi.org/10.1143/JPSJ.79.104001>

Citácie:

1. [1.1] HUTCHCROFT, Tom. Continuity of the Ising Phase Transition on Nonamenable Groups. In COMMUNICATIONS IN MATHEMATICAL PHYSICS, 2023, vol. 404, no. 1, pp. 227-286. ISSN 0010-3616. Dostupné na: <https://doi.org/10.1007/s00220-023-04838-y>, Registrované v: WOS

2. [1.1] LUKIN, I. V. - SOTNIKOV, A. G. Variational optimization of tensor-network states with the honeycomb-lattice corner transfer matrix. In PHYSICAL REVIEW B, 2023, vol. 107, no. 5, pp. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.107.054424>, Registrované v: WOS

3. [1.1] OKUNISHI, Kouichi - TAKAYANAGI, Tadashi. Statistical mechanics approach to the holographic renormalization group: Bethe lattice Ising model and p-adic AdS/CFT. In PROGRESS OF THEORETICAL AND EXPERIMENTAL PHYSICS, 2023, vol. 2024, no. 1, pp. ISSN 2050-3911. Dostupné na: <https://doi.org/10.1093/ptep/ptad156>, Registrované v: WOS

- ADCA198 IZSÁK, Tibor - JIRÁSEK, V. - VANKO, Gabriel - DZUBA, Jaroslav - KROMKA, A. Temperature-dependent stress in diamond-coated AlGaIn/GaN heterostructures. In *Materials and Design*, 2016, vol. 106, p. 305-312. (2015: 3.997 - IF, Q1 - JCR, 1.844 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0261-3069. Dostupné na: <https://doi.org/10.1016/j.matdes.2016.06.006>
- Citácie:
 1. [1.1] WANG, Y.N. - HU, X.F. - GE, L. - LIU, Z.H. - XU, M.S. - PENG, Y. - LI, B. - YANG, Y.Q. - LI, S.Q. - XIE, X.J. - WANG, X.W. - XU, X.A. - HU, X.B. *Research Progress in Capping Diamond Growth on GaN HEMT: A Review. In CRYSTALS. MAR 2023, vol. 13, no. 3. Dostupné na: <https://doi.org/10.3390/cryst13030500>, Registrované v: WOS*
- ADCA199 IZSÁK, Tibor - BABCHENKO, Oleg - JIRÁSEK, V. - VANKO, Gabriel - VALLO, Martin - VOJS, M. - KROMKA, A. Selective area deposition of diamond films on AlGaIn/GaN heterostructures. In *Physica status solidi B*, 2014, vol. 251, p. 2574-2580. (2013: 1.605 - IF, Q3 - JCR, 0.831 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0370-1972. Dostupné na: <https://doi.org/10.1002/pssb.201451167>
- Citácie:
 1. [1.1] WANG, Y.N. - HU, X.F. - GE, L. - LIU, Z.H. - XU, M.S. - PENG, Y. - LI, B. - YANG, Y.Q. - LI, S.Q. - XIE, X.J. - WANG, X.W. - XU, X.A. - HU, X.B. *Research Progress in Capping Diamond Growth on GaN HEMT: A Review. In CRYSTALS. MAR 2023, vol. 13, no. 3. Dostupné na: <https://doi.org/10.3390/cryst13030500>, Registrované v: WOS*
- ADCA200 JAKUBISOVÁ, E. - VIŠŇOVSKÝ, Š. - ŠIROKÝ, P. - HRABOVSKÝ, D. - PIŠTORA, J. - VÁVRA, Ivo - DOBROČKA, Edmund - KRIŠŤAN, P. - ŠTĚPÁNKOVÁ, Hana - HARWARD, I. - CELINSKI, Z. Magneto-optical studies of BaFe₁₂O₁₉ films grown by metallo-organic decomposition. In *Optical Materials Express*, 2015, vol. 5, p. 1323-1330. (2014: 2.844 - IF, Q1 - JCR, 1.521 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 2159-3930. Dostupné na: <https://doi.org/10.1364/OME.5.001323>
- Citácie:
 1. [1.1] KRICHEVTSOV, B. - KOROVIN, A. - SUTURIN, S. - LEVIN, A.A. - LOBOV, I. - TELEGIN, A. - BADALYAN, A. - SAKHAROV, V. - SERENKOV, I. - DOROGOV, M. - SOKOLOV, N. *Structural, Magnetic, and Magneto-Optical Properties of Thin Films of BaM Hexaferrite Grown by Laser Molecular Beam Epitaxy. In MATERIALS. JUN 2023, vol. 16, no. 12. Dostupné na: <https://doi.org/10.3390/ma16124417>, Registrované v: WOS*
- ADCA201 JANŠÁK, Lubomil - CHOVANEC, František - KOKAVEC, Ján - JERGEL, Milan. Critical current anisotropy and AC losses in Bi(Pb)SrCaCuO-2223 and TlBaCaCuO-2212 Ag sheathed superconducting tapes. In *IEEE Transactions on Magnetics*, 1996, vol. 32, p. 2788. (1996 - Current Contents). ISSN 0018-9464.
- Citácie:
 1. [1.1] BRESCHI, M. - MUSSO, A. - PASINI, G. - RIBANI, P.L. *A Comprehensive Investigation on the Accuracy of Electrical Measurement of Transport Current AC Losses in HTS Tapes. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, JAN 2022, vol. 32, no. 1. Dostupné na: <https://doi.org/10.1109/TASC.2021.3129310>, Registrované v: WOS*
- ADCA202 JERGEL, Milan. Synthesis of high-T_c superconducting films by deposition from aerosol. In *Superconductor Science and Technology*, 1995, vol. 8, p. 67. (1994: 1.530 - IF, karentované - CCC). (1995 - Current Contents, SCOPUS). ISSN 0953-2048.
- Citácie:

1. [1.1] AL KHATEEB, S. - BENNETT, B.T. - BECK, J.P. - JEYAPALINA, S. - SPARKS, T.D. *Exploration of fluorapatite bio-ceramic thin film deposition by ultrasonic spray pyrolysis. In JOURNAL OF MATERIALS RESEARCH. ISSN 0884-2914, APR 28 2023, vol. 38, no. 8, p. 2287-2301. Dostupné na: <https://doi.org/10.1557/s43578-023-00961-7>, Registrované v: WOS*
2. [1.1] AL KHATEEB, S. - BENNETT, B.T. - BECK, J.P. - JEYAPALINA, S. - SPARKS, T.D. *Morphological Evolution Effect on the Performance of Spray Pyrolysis-Based Synthesis of Fluorapatite Thin Films for Bioimplant Applications. In JOM. ISSN 1047-4838, SEP 2023, vol. 75, no. 9, p. 3332-3344. Dostupné na: <https://doi.org/10.1007/s11837-023-05892-6>, Registrované v: WOS*
3. [1.2] Al-Rikabi, H.S., Al-Timimi, M.H., Abd, I.K.: *A review of (MgO) thin films, preparation and applications In AIP Conference Proceedings 2834 (2023), 090007, Registrované v: SCOPUS*

ADCA203 JERGEL, Milan - STEVENSON, R. Static heat transfer to liquid helium in open pools and narrow channels. In International Journal of Heat and Mass Transfer, 1971, vol. 14, p. 2099.

Citácie:

1. [1.1] LI, J.Y. - O'NEILL, L.E. - IZENSON, M.G. - KHARANGATE, C.R. *Data consolidation, correlations assessment, and new correlation development for pool boiling critical heat flux specific to cryogenic fluids. In INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER. ISSN 0017-9310, OCT 2023, vol. 213. Dostupné na: <https://doi.org/10.1016/j.ijheatmasstransfer.2023.124315>, Registrované v: WOS*

ADCA204 JERGEL, Milan - STEVENSON, R. Heat transfer to boiling helium from aluminium surfaces. In Cryogenics, 1972, vol. 12, p. 312. ISSN 0011-2275.

Citácie:

1. [1.1] LI, J.Y. - O'NEILL, L.E. - IZENSON, M.G. - KHARANGATE, C.R. *Data consolidation, correlations assessment, and new correlation development for pool boiling critical heat flux specific to cryogenic fluids. In INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER. ISSN 0017-9310, OCT 2023, vol. 213. Dostupné na: <https://doi.org/10.1016/j.ijheatmasstransfer.2023.124315>, Registrované v: WOS*

ADCA205 JERGEL, Milan - CONDE-GALLARDO, A. - GARCIA, M. - FALCONY, C. Metal oxide Co and Co-Fe-Cr films deposited on glass substrates from a metal-organic aerosol atomized by means of ultrasonic excitations. In Thin Solid Films, 1997, vol. 305, no., p. 210. (1996: 1.320 - IF, karentované - CCC). (1997 - Current Contents). ISSN 0040-6090.

Citácie:

1. [1.2] TIWARI, M. K. *Recent developments in x-ray fluorescence for characterization of nano-structured materials. In X-Ray Fluorescence in Biological Sciences: Principles, Instrumentation, and Applications, 2022-04-15, pp. 219-247. Dostupné na: <https://doi.org/10.1002/9781119645719.ch14>, Registrované v: SCOPUS*

ADCA206 JERGEL, Milan - CONDE-GALLARDO, A. - GUAJARDO, C.F. - ŠTRBÍK, Vladimír. Tl-based superconductors for high-current, high-field applications. In Superconductor Science and Technology, 1996, vol. 9, p. 427. (1995: 1.493 - IF, karentované - CCC). (1996 - Current Contents, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] NINOMIYA, H. - KAWASHIMA, K. - ISHIDA, S. - OGINO, H. - FUJIHISA, H. - GOTOH, Y. - YOSHIDA, Y. - IYO, A. - EISAKI, H. *Improvement of critical current properties and irreversibility lines by metal substitution in Ca-free Hg-based double-layered cuprates. In SUPERCONDUCTOR SCIENCE &*

- TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acfa28>, Registrované v: WOS*
- ADCA207 JERGEL, Milan - STEVENSON, R. Contribution to the static heat transfer to boiling liquid helium. In *Cryogenics*, 1974, vol. 14, p. 431. ISSN 0011-2275.
Citácie:
1. [1.1] LI, J.Y. - O'NEILL, L.E. - IZENSON, M.G. - KHARANGATE, C.R. Data consolidation, correlations assessment, and new correlation development for pool boiling critical heat flux specific to cryogenic fluids. In *INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER. ISSN 0017-9310, OCT 2023, vol. 213. Dostupné na: <https://doi.org/10.1016/j.ijheatmasstransfer.2023.124315>, Registrované v: WOS*
- ADCA208 JIRSA, M. - RAMEŠ, M. - DURAN, I. - MELIŠEK, Tibor - KOVÁČ, Pavol - VIERERBL, L. Electric currents in REBaCuO superconducting tapes. In *Superconductor Science and Technology*, 2017, vol. 30, no. 045010. (2016: 2.878 - IF, Q2 - JCR, 0.967 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/aa5bbf>
Citácie:
1. [1.1] ABIN, D.A. - RUDNEV, I.A. - STARIKOVSKII, A.S. - POKROVSKII, S.V. - VESELOVA, S.V. - OSIPOV, M.A. - BATULIN, R.G. - KHAMOV, A.G. - FEDIN, P.A. - PRYANISHNIKOV, K.E. - KULEVOY, T.V. Influence of Ion Irradiation on the Structural Parameters of the Superconducting Layer of HTS Composites. In *PHYSICS OF ATOMIC NUCLEI. ISSN 1063-7788, DEC 2023, vol. 86, no. 9, p. 1985-1992. Dostupné na: <https://doi.org/10.1134/S1063778823090016>, Registrované v: WOS*
2. [1.1] ADAMS, K. - ILIFFE, W. - NICHOLLS, R.J. - HE, G. - DIAZ-MORENO, S. - MOSSELMANS, F. - FISCHER, D. - EISTERER, M. - GROVENOR, C.R.M. - SPELLER, S.C. Comparing neutron and helium ion irradiation damage of REBa₂Cu₃O_{7-δ} coated conductor using x-ray absorption spectroscopy. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, OCT 1 2023, vol. 36, no. 10. Dostupné na: <https://doi.org/10.1088/1361-6668/aced9e>, Registrované v: WOS*
3. [1.1] TORSELLO, D. - GAMBINO, D. - GOZZELINO, L. - TROTTA, A. - LAVIANO, F. Expected radiation environment and damage for YBCO tapes in compact fusion reactors. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, JAN 1 2023, vol. 36, no. 1. Dostupné na: <https://doi.org/10.1088/1361-6668/aca369>, Registrované v: WOS*
- ADCA209 KABÁT, Dušan - CESNAK, Ladislav - KOKAVEC, Ján. Optimisation of inner-notch-corrected highly homogeneous superconducting solenoids and their comparison with other coil configuration. In *Journal of Physics E : Scientific Instruments*, 1979, vol. 12, p. 652-657. (1979 - Current Contents). ISSN 0022-3735.
Citácie:
1. [1.1] FILIPPIDIS, S.P. - BOUHOURLAS, A.S. - POULAKIS, N. - THEODOULIDIS, T. - CHRISTOFORIDIS, G.C. Overview of the Electromagnetic Optimization Literature of Superconducting Solenoidal Magnets and Coils. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, OCT 2023, vol. 33, no. 7. Dostupné na: <https://doi.org/10.1109/TASC.2023.3280822>, Registrované v: WOS*
- ADCA210 KAČMARČÍK, Jozef - PRIBULOVÁ, Zuzana - PALUCHOVÁ, Viktória - HUSANÍKOVÁ, Petra - KARAPETROV, Goran - KOMANICKÝ, Vladimír - SAMUELY, Peter. Specific heat study of superconductivity in Cu_{0.061}TiSe₂. In *Acta Physica Polonica A*, 2014, vol. 126, no. 1, p. 322-323. (2013: 0.604 - IF, Q4 - JCR, 0.345 - SJR, Q3 - SJR, karentované - CCC). (2014 - Current Contents, WOS,

SCOPUS). ISSN 1898-794X. Dostupné na:
<https://doi.org/10.12693/APhysPolA.126.322> (CSMAG '13 : Czech and Slovak conference on magnetism)

Citácie:

1. [1.1] BENJAMIN, S.M. *Intercalate Superconductivity and van der Waals Equation*. In *ACS MATERIALS AU*. ISSN 2694-2461, JUL 13 2022, vol. 2, no. 4, p. 436-439. Dostupné na: <https://doi.org/10.1021/acsmaterialsau.2c00015>, Registrované v: WOS

ADCA211 KAČMARČÍK, Jozef - PRIBULOVÁ, Zuzana - SAMUELY, Tomáš - SZABÓ, Pavol - CAMBEL, Vladimír - ŠOLTÝS, Ján - HERRERA, E. - SUDEROW, H. - CORREA-ORELLANA, A. - PRABHAKARAN, D. - SAMUELY, Peter. Single-gap superconductivity in β -Bi₂Pd. In *Physical Review B*, 2016, vol. 93, art. no. 144502. (2015: 3.718 - IF, Q1 - JCR, 2.377 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.93.144502>

Citácie:

1. [1.1] JURASZEK, J. - KONCZYKOWSKI, M. - KACZOROWSKI, D. - CICHOREK, T. *Temperature Dependence of the Lower Critical Field of the Noncentrosymmetric Superconductor α -BiPd*. In *PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS*. ISSN 1862-6254, MAR 2023, vol. 17, no. 3. Dostupné na: <https://doi.org/10.1002/pssr.202200423>, Registrované v: WOS
2. [1.1] ZHU, A.K. - CHEN, Z. - HAN, Y.Y. - ZHU, M.C. - WANG, H.H. - HAN, M.L. - LI, L. - LIU, X. - ZHENG, G.L. - ZHU, X.D. - GAO, W.S. - TIAN, M.L. *Transport signatures of the topological surface state induced by the size effect in superconductor β -PdBi₂*. In *SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY*. ISSN 1674-7348, JUL 2023, vol. 66, no. 7. Dostupné na: <https://doi.org/10.1007/s11433-023-2103-2>, Registrované v: WOS

ADCA212 KAČMARČÍK, Jozef - PRIBULOVÁ, Zuzana - PALUCHOVÁ, Viktória - SZABÓ, Pavol - HUSANÍKOVÁ, Petra - KARAPETROV, Goran - SAMUELY, Peter. Heat capacity of single-crystal CuxTiSe₂ superconductors. In *Physical Review B*, 2013, vol. 88, no. 2, art. no. R020507. (2012: 3.767 - IF, Q1 - JCR, 1.779 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.88.020507>

Citácie:

1. [1.1] BENJAMIN, S.M. *Intercalate Superconductivity and van der Waals Equation*. In *ACS MATERIALS AU*. ISSN 2694-2461, JUL 13 2022, vol. 2, no. 4, p. 436-439. Dostupné na: <https://doi.org/10.1021/acsmaterialsau.2c00015>, Registrované v: WOS
2. [1.1] NAIK, S. - SARANGI, S.N. - SAMAL, D. - SAMAL, S.L. *Effect of an inner-transition metal (Dy) intercalation on the structure and magnetic properties of 1T-TiSe₂*. In *JOURNAL OF SOLID STATE CHEMISTRY*. ISSN 0022-4596, FEB 2023, vol. 318. Dostupné na: <https://doi.org/10.1016/j.jssc.2022.123782>, Registrované v: WOS

ADCA213 KADLEČÍKOVÁ, M. - VANČO, L. - BREZA, J.** - MIKOLÁŠEK, M. - HUŠEKOVÁ, Kristína - FRÖHLICH, Karol - PROCEL, P. - ZEMAN, M. - ISABELLA, O. Raman spectroscopy of silicon with nanostructured surface. In *Optik : International Journal for Light and Electron Optics*, 2022, vol. 257, no. 168869. (2021: 2.840 - IF, Q2 - JCR, 0.523 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0030-4026. Dostupné na: <https://doi.org/10.1016/j.ijleo.2022.168869>

Citácie:

1. [1.1] DONG, G.Y. - YANG, H. - ZENG, S. - SHI, Z. - MA, Y. - WEN, C. -

- YANG, W. Nanosecond-laser hyperdoping of intrinsic silicon to modify its electrical and optical properties. In OPTICS AND LASER TECHNOLOGY. ISSN 0030-3992, SEP 2023, vol. 164. Dostupné na: <https://doi.org/10.1016/j.optlastec.2023.109517>, Registrované v: WOS*
- ADCA214 KALLEL, N. - FRÖHLICH, Karol - OUMEZZINE, M. - GHEDIRA, M. - VINCENT, H. - PIGNARD, S. Magnetism and giant magnetoresistance in $\text{La}_{0.7}\text{Sr}_{0.3}\text{Mn}_{1-x}\text{M}_x\text{O}_3$ (M = Cr, Ti) systems. In *Physica Status Solidi c*, 2004, vol. 1, p. 1649–1654. (2004 - Current Contents).
Citácie:
1. [1.1] KUMAR, G.J. - JOSE, A. - JINU, E.P. - SARAVANAN, T.T. - KUMAR, E.S. - NAVANEETHAN, M. - SREEMOOLANADHAN, H. - BHARATHI, K.K. B-site disorder induced Griffiths phase evolution and high magnetocaloric effect in $\text{La}_{0.7}\text{Sr}_{0.3}\text{A}_{0.05}\text{Mn}_{0.95}\text{O}_3$ (A = Si, Ti). In *MATERIALS RESEARCH BULLETIN. ISSN 0025-5408, APR 2023, vol. 160. Dostupné na: <https://doi.org/10.1016/j.materresbull.2022.112140>, Registrované v: WOS*
2. [1.1] ZDIRI, F. - ALONSO, J.M. - MNASRI, T. - DE LA PRESA, P. - MORALES, I. - MARTINEZ, J.L. - BEN YOUNES, R. - MARIN, P. Effects of Partial Manganese Substitution by Cobalt on the Physical Properties of $\text{Pr}_{0.7}\text{Sr}_{0.3}\text{Mn}_{(1-x)}\text{Co}_x\text{O}_3$ ($0 < x = 0.15$) Manganites. In *MATERIALS. FEB 2023, vol. 16, no. 4. Dostupné na: <https://doi.org/10.3390/ma16041573>, Registrované v: WOS*
- ADCA215 KALLEL, N. - FRÖHLICH, Karol - PIGNARD, S. - OUMEZZINE, M. - VINCENT, H. Structure, magnetic and magnetoresistive properties of $\text{La}_{0.7}\text{Sr}_{0.3}\text{Mn}_{1-x}\text{Sn}_x\text{O}_3$ samples ($0 < x = 0.20$). In *Journal of Alloys and Compounds*, 2005, vol. 399, p. 20-26. ISSN 0925-8388.
Citácie:
1. [1.1] BELAL, I. - MERICHE, F. - MAHAMDIOUA, N. - DENBRI, F. - POLAT-ALTINTAS, S. - TERZIOGLU, C. - ALONSO, J.A. - MARTINEZ, J.L. Structural, electrical, magnetic and magnetotransport properties of $\text{La}_{0.7}\text{Ca}_{0.18}\text{Ba}_{0.12}\text{Mn}_{0.95}\text{Sn}_{0.05}\text{O}_3$ manganite prepared with different quenching processes. In *APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING. ISSN 0947-8396, JAN 2023, vol. 129, no. 1. Dostupné na: <https://doi.org/10.1007/s00339-022-06302-5>, Registrované v: WOS*
- ADCA216 KALMBACH, C.-C. - AHLERS, F.J. - SCHURR, J. - MÜLLER, A. - FEILHAUER, Juraj - KRUSKOPF, M. - PIERZ, K. - HOHLS, F. - HAUG, R.J. Nonequilibrium mesoscopic conductance fluctuations as the origin of $1/f$ noise in epitaxial graphene. In *Physical Review B*, 2016, vol. 94, art. no. 205430. (2015: 3.718 - IF, Q1 - JCR, 2.377 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.94.205430>
Citácie:
1. [1.1] CHIEN, P.Y. - WU, C.Y. - WANG, R.T. - CHIU, S.P. - KIRCHNER, S. - YEY, S.S. - LIN, J.J. Quantum-interference origin and magnitude of $1/f$ noise in Dirac nodal line IrO_2 nanowires at low temperatures. In *APPLIED PHYSICS LETTERS. ISSN 0003-6951, APR 3 2023, vol. 122, no. 14. Dostupné na: <https://doi.org/10.1063/5.0147131>, Registrované v: WOS*
2. [1.1] SCHMITT, A. - MELE, D. - ROSTICHER, M. - TANIGUCHI, T. - WATANABE, K. - MAESTRE, C. - JOURNET, C. - GARNIER, V. - FEVE, G. - BERROIR, J.M. - VOISIN, C. - PLACAIS, B. - BAUDIN, E. High-field $1/f$ noise in $h\text{BN}$ -encapsulated graphene transistors. In *PHYSICAL REVIEW B. ISSN 2469-9950, APR 10 2023, vol. 107, no. 16. Dostupné na: <https://doi.org/10.1103/PhysRevB.107.L161104>, Registrované v: WOS*

- ADCA217 KAPOLKA, Milan - ZERMONO, V. - ZOU, S. - MORANDI, A. - RIBANI, P. - PARDO, Enric - GRILLI, F.**. Three-dimensional modeling of the magnetization of superconducting rectangular-based bulks and tape stacks. In IEEE Transactions on Applied Superconductivity, 2018, vol. 28, no. 8201206. (2017: 1.288 - IF, Q3 - JCR, 0.408 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2018.2801322>
 Citácie:
 1. [1.1] *AINSLIE, M.D. Numerical modelling of high-temperature superconducting dynamos: A review. In SUPERCONDUCTIVITY. MAR 2023, vol. 5. Dostupné na: <https://doi.org/10.1016/j.supcon.2022.100033>, Registrované v: WOS*
- ADCA218 KAPOLKA, Milan** - SRPCIC, J. - ZHOU, D. - AINSLIE, M.D. - PARDO, Enric - DENNIS, Anthony R. Demagnetization of cubic Gd-Ba-Cu-O bulk superconductor by crossed-fields: measurements and three-dimensional modeling. In IEEE Transactions on Applied Superconductivity, 2018, vol. 28, no. 6801405. (2017: 1.288 - IF, Q3 - JCR, 0.408 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2018.2808401>
 Citácie:
 1. [1.1] *WANG, Q. - ZHANG, H.Y. - HAO, L.N. - HU, J.T. - WEI, H.G.N. - PATEL, I. - SHAH, A.D. - COOMBS, T. Magnetisation and demagnetisation of trapped field stacks in a superconducting machine for electric aircraft. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acfcdf>, Registrované v: WOS*
- ADCA219 KAPOLKA, Milan - PARDO, Enric**. 3D modelling of macroscopic force-free effects in superconducting thin films and rectangular prisms. In Superconductor Science and Technology, 2019, vol. 32, no. 054001. (2018: 2.489 - IF, Q2 - JCR, 0.879 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ab016a> (VEGA 2/0097/18)
 Citácie:
 1. [1.1] *AINSLIE, M.D. Numerical modelling of high-temperature superconducting dynamos: A review. In SUPERCONDUCTIVITY. MAR 2023, vol. 5. Dostupné na: <https://doi.org/10.1016/j.supcon.2022.100033>, Registrované v: WOS*
 2. [1.1] *GURYEV, V.V. - IRODOVA, A.V. - CHUMAKOV, N.K. - SHAVKIN, S.V. Low-field magnetization features of superconducting tapes with strong pinning anisotropy. In ST PETERSBURG POLYTECHNIC UNIVERSITY JOURNAL-PHYSICS AND MATHEMATICS. ISSN 2405-7223, 2023, vol. 16, no. 1, 1, p. 67-73. Dostupné na: <https://doi.org/10.18721/JPM.161.111>, Registrované v: WOS*
 3. [1.1] *ZHONG, Z.Y. - WU, W. - LU, L. - SHEN, B.Y. - DONG, F.L. - WANG, L.B. - HONG, Z.Y. - JIN, Z.J. Time-variant magnetic field, voltage, and loss of no-insulation (NI) HTS magnet induced by dynamic resistance generation from external AC fields. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, MAY 1 2023, vol. 36, no. 5. Dostupné na: <https://doi.org/10.1088/1361-6668/acbd6b>, Registrované v: WOS*
- ADCA220 KAPOLKA, Milan - PARDO, Enric** - GRILLI, F. - BASKYS, A. - CLIMENTE-ALARCON, V. - DADHICH, Anang - GLOWACKI, B.A. Cross-field demagnetization of stacks of tapes: 3D modeling and measurements. In Superconductor Science and Technology, 2020, vol. 33, no. 4, no. 044019. (2019: 3.067 - IF, Q2 - JCR, 0.991 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current

Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ab5aca> (VEGA 2/0097/18. H2020 ASuMED)

Citácie:

1. [1.1] HOUBART, M. - FAGNARD, J.F. - DULAR, J. - DENNIS, A.R. - NAMBURI, D.K. - DURRELL, J.H. - GEUZAINÉ, C. - VANDERHEYDEN, B. - VANDERBEMDEN, P. How to overcome the demagnetization of superconducting Halbach arrays?. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na:

<https://doi.org/10.1088/1361-6668/acf904>, Registrované v: WOS

2. [1.1] WANG, Q. - ZHANG, H.Y. - HAO, L.N. - HU, J.T. - WEI, H.G.N. - PATEL, I. - SHAH, A.D. - COOMBS, T. Magnetisation and demagnetisation of trapped field stacks in a superconducting machine for electric aircraft. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acfcdf>, Registrované v: WOS

3. [1.1] WANG, R. - LIU, Y.Z. - CAO, J.W. - LI, L.Y. - LIU, X.K. - XUE, H.D. - ARNDT, T. Preliminary design optimization of a fully superconducting motor based on disk-up-down-assembly magnets. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, MAY 1 2023, vol. 36, no. 5. Dostupné na: <https://doi.org/10.1088/1361-6668/acc822>, Registrované v: WOS

ADCA221 KARAPETROV, Goran - FEDOR, Ján - IAVARONNE, M. - ROSENMAN, D. - KWOK, W.K. Direct observation of vortex lattice transitions in mesoscopic superconducting single crystals using STM. In Physica C : superconductivity and its applications, 2006, vol. 437-438, p. 127-131. (2005: 0.948 - IF, Q3 - JCR, 0.822 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.

Citácie:

1. [1.1] PAPARI, G.P. - FOMIN, V.M. Quantum Interference by Vortex Supercurrents. In PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS. ISSN 1862-6254, NOV 2023, vol. 17, no. 11, SI. Dostupné na:

<https://doi.org/10.1002/pssr.202300038>, Registrované v: WOS

ADCA222 KARAPETROV, Goran - FEDOR, Ján - IAVARONNE, M. - ROSENMAN, D. - KWOK, W.K. Direct observation of geometrical phase transitions in mesoscopic superconductors by scanning tunneling microscopy. In Physical Review Letters, 2005, vol. 95, p. 167002. (2004: 7.218 - IF, karentované - CCC). (2005 - Current Contents, WOS, SCOPUS). ISSN 0031-9007.

Citácie:

1. [1.1] GONZÁLEZ, J. - GONZÁLEZ, J. - DURÁN, F. - SALAS, C. - GÓMEZ, J. Effect of the Spatially-Variied Electron Mean Free Path on Vortex Matter in a Superconducting Pb Island Grown on Si (111). In CONDENSED MATTER. ISSN 2410-3896, SEP 2023, vol. 8, no. 3. Dostupné na:

<https://doi.org/10.3390/condmat8030077>, Registrované v: WOS

2. [1.1] KOPASOV, A.A. - TSAR', KOV, I.M. - MEL', NIKOV, A.S. Disorder-induced trapping and antitrapping of vortices in type-II superconductors. In PHYSICAL REVIEW B. ISSN 2469-9950, MAY 3 2023, vol. 107, no. 17. Dostupné na: <https://doi.org/10.1103/PhysRevB.107.174505>, Registrované v: WOS

3. [1.1] MELKANI, A. - PATAPOFF, A. - PAULOSE, J. Delocalization of interacting directed polymers on a periodic substrate: Localization length and critical exponents from non-Hermitian spectra. In PHYSICAL REVIEW E. ISSN 2470-0045, JAN 6 2023, vol. 107, no. 1. Dostupné na:

<https://doi.org/10.1103/PhysRevE.107.014501>, Registrované v: WOS

4. [1.1] ZHU, W.Q. - REICHHARDT, C. - REICHHARDT, C.J.O. - FENG, Y.

Dynamical commensuration effect in a two-dimensional Yukawa solid modulated by periodic substrates. In PHYSICS OF PLASMAS. ISSN 1070-664X, APR 2023, vol. 30, no. 4. Dostupné na: <https://doi.org/10.1063/5.0143008>, Registrované v: WOS

ADCA223 KAUSHAL, P. - CHAND, S. - OSVALD, Jozef. Current-voltage characteristics of Schottky diode simulated using semiconductor device equations. In International Journal of Electronics, 2013, vol. 100, p. 686-698. (2012: 0.509 - IF, Q4 - JCR, 0.243 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0020-7217. Dostupné na: <https://doi.org/10.1080/00207217.2012.720946>

Citácie:

1. [1.1] BALTAKESMEZ, A. - GUEZELDIR, B. Mixed halide perovskite compound thin film with large cation guanidinium and applications: MIS (Au/GUAPbI₃-xCl_x/p-Si/Al) and p-FET (Al/p-Si/SiO₂/GUAPbI₃-xCl_x/Al). In SURFACES AND INTERFACES. ISSN 2468-0230, AUG 2023, vol. 40. Dostupné na: <https://doi.org/10.1016/j.surfin.2023.103066>, Registrované v: WOS

2. [1.1] EFEOGLU, H. - TURUT, A. - GüL, M. Current-Voltage Characteristics of Pt Metal-based and PtSi Silicide-based n-Si Schottky Diodes over a Wide Measuring Temperature Range. In JOURNAL OF ELECTRONIC MATERIALS. ISSN 0361-5235, FEB 2023, vol. 52, no. 2, SI, p. 1410-1418. Dostupné na: <https://doi.org/10.1007/s11664-022-10062-6>, Registrované v: WOS

ADCA224 KAZIMÍROVÁ, A. - PEIKERTOVÁ, P. - BARANCOKOVÁ, M. - STARUCHOVÁ, M. - TULINSKÁ, J. - VACULÍK, M. - VÁVRA, Ivo - KUKUTSCHOVÁ, J. - FILIP, P. - DUŠINSKÁ, M. Automotive airborne brake wear debris nanoparticles and cytokinesis-block micronucleus assay in peripheral blood lymphocytes: A pilot study. In Environmental Research, 2016, vol. 148, p. 443-449. (2015: 3.088 - IF, Q1 - JCR, 1.424 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0013-9351. Dostupné na: <https://doi.org/10.1016/j.envres.2016.04.022>

Citácie:

1. [1.1] FOREST, V. - POURCHEZ, J. Biological effects of brake wear particles in mammalian models: A systematic review. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, DEC 20 2023, vol. 905. Dostupné na: <https://doi.org/10.1016/j.scitotenv.2023.167266>, Registrované v: WOS

2. [1.1] JAYASHREE, P. - MATEJKA, V. - LEONARDI, M. - STRAFFELINI, G. A novel path towards limiting non-exhaust particulate matter emissions of a commercial friction material through the addition of metallurgical slag. In SCIENTIFIC REPORTS. ISSN 2045-2322, JAN 12 2023, vol. 13, no. 1. Dostupné na: <https://doi.org/10.1038/s41598-023-27932-6>, Registrované v: WOS

3. [1.1] KUMAR, S. - PRIYADARSHAN, K. - GHOSH, S.K. Comparative study of airborne particles on new developed metal matrix composite and commercial brake pad materials with ANN and finite element analysis. In COMPUTATIONAL PARTICLE MECHANICS. ISSN 2196-4378, APR 2023, vol. 10, no. 2, p. 273-287. Dostupné na: <https://doi.org/10.1007/s40571-022-00491-9>, Registrované v: WOS

4. [1.1] VALLABANI, N.V.S. - GRUZIEVA, O. - ELIHN, K. - JUÁREZ-FACIO, A.T. - STEIMER, S.S. - KUHN, J. - SILVERGREN, S. - PORTUGAL, J. - PIÑA, B. - OLOFSSON, U. - JOHANSSON, C. - KARLSSON, H.L. Toxicity and health effects of ultrafine particles: Towards an understanding of the relative impacts of different transport modes. In ENVIRONMENTAL RESEARCH. ISSN 0013-9351, AUG 15 2023, vol. 231, 2. Dostupné na: <https://doi.org/10.1016/j.envres.2023.116186>, Registrované v: WOS

5. [1.2] CHANCHAEVA, Elena A. - GRJIBOVSKI, Andrej M. - KURILENKO, Tatiana K. - MALKOV, Peter Yu. Cadmium concentrations in hair in the

population of the subjects of the Russian Federation: a systematic review. In Gigiena i Sanitariya, 2023-01-01, 102, 1, pp. 40-49. ISSN 00169900. Dostupné na: <https://doi.org/10.47470/0016-9900-2023-102-1-40-49>, Registrované v: SCOPUS

6. [1.2] CHANCHAEVA, Elena A. - GRJIBOVSKI, Andrej M. - KURILENKO, Tatiana K. - MALKOV, Peter Yu. Cadmium concentrations in hair in the population of the subjects of the Russian Federation: a systematic review. In *Gigiena i Sanitariya*, 2023-01-01, 102, 1, pp. 40-49. ISSN 00169900. Dostupné na: <https://doi.org/10.47470/0016-9900-2023-102-1-40-49>, Registrované v: SCOPUS

ADCA225 KIM, J. H. - KIM, C.H. - IYYANI, G. - KVITKOVIČ, Jozef - PAMIDI, S.V. Transport AC loss measurements in superconducting coils. In *IEEE Transactions on Applied Superconductivity*, 2011, vol. 21, p. 3269-3272. (2010: 1.035 - IF, Q2 - JCR, 0.473 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2010.2089485>

Citácie:

1. [1.1] LAN, T. - LIAO, H.P. - IFTIKHAR, M.H. - YUAN, W.J. - COLE, A. - ABDOUH, R. - ZHANG, M. Multifilament HTS Cables to Reduce AC Loss: Proof-of-Concept Experiments and Simulation. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, SEP 2023, vol. 33, no. 6. Dostupné na: <https://doi.org/10.1109/TASC.2023.3265436>, Registrované v: WOS

2. [1.1] MUSSO, A. - ANGELI, G. - ASCADE, M. - BOCCHI, M. - PASINI, G. - RIBANI, P.L. - ROSSI, V. - BRESCHI, M. Comparing Electrodynamics Losses During Transport Current Cycles in Insulated and Non-Insulated HTS Coils. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na:

<https://doi.org/10.1109/TASC.2023.3261843>, Registrované v: WOS

3. [1.1] VARGAS-LLANOS, C.R. - KRÄMER, J. - NOE, M. - GRILLI, F. Design and test of a setup for calorimetric measurements of AC transport losses in HTS racetrack coils. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, APR 1 2023, vol. 36, no. 4. Dostupné na:

<https://doi.org/10.1088/1361-6668/acbba5>, Registrované v: WOS

4. [1.1] ZANEGIN, S.Y. - ZUBKO, V.V. - PODGUZOV, V.A. - ZANEGIN, Y.A. DC and AC Testing of HTS Coils for Magnetolectric Generator. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, SEP 2023, vol. 33, no. 6. Dostupné na: <https://doi.org/10.1109/TASC.2023.3276632>, Registrované v: WOS

ADCA226 KITYK, Anna** - PROTSSENKO, V. - DANILOV, F.I. - PAVLÍK, Viliam - HNATKO, Miroslav - ŠOLTÝS, Ján. Enhancement of the surface characteristics of Ti-based biomedical alloy by electropolishing in environmentally friendly deep eutectic solvent (Ethaline). In *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 2021, vol. 613, p. 126125-1-126125-14. (2020: 4.539 - IF, Q2 - JCR, 0.762 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0927-7757. Dostupné na: <https://doi.org/10.1016/j.colsurfa.2020.126125>

Citácie:

1. [1.1] FAUZI, R. - DAIK, R. - FAUZI, B. - MAMAUOD, S.N.L. Physicochemical Properties of N,N-Diethylethanolammonium Chloride/Ethylene Glycol-Based Deep Eutectic Solvent for Replacement of Ionic Liquid. In *JOURNAL OF ELECTROCHEMICAL ENERGY CONVERSION AND STORAGE*. ISSN 2381-6872, MAY 1 2023, vol. 20, no. 2. Dostupné na:

<https://doi.org/10.1115/1.4056638>, Registrované v: WOS

2. [1.1] HASHMI, A.W. - MALI, H.S. - MEENA, A. - SAXENA, K.K. - AHMAD, S. - AGRAWAL, M.K. - SAGBAS, B. - PUERTA, A.P.V. - KHAN, M.I. *A comprehensive review on surface post-treatments for freeform surfaces of bio-implants. In JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T. ISSN 2238-7854, MAR-APR 2023, vol. 23, p. 4866-4908. Dostupné na: <https://doi.org/10.1016/j.jmrt.2023.02.007>, Registrované v: WOS*
3. [1.1] PRABHUNE, A. - DEY, R. *Green and sustainable solvents of the future: Deep eutectic solvents. In JOURNAL OF MOLECULAR LIQUIDS. ISSN 0167-7322, JUN 1 2023, vol. 379. Dostupné na: <https://doi.org/10.1016/j.molliq.2023.121676>, Registrované v: WOS*
4. [1.1] PRIHANDANA, G.S. - SRIANI, T. - JAMALUDIN, M.F. - YUSOF, F. - ARIFVIANTO, B. - MAHARDIKA, M. *Parameters Optimization for Electropolishing Titanium by Using Taguchi-Based Pareto ANOVA. In METALS. FEB 2023, vol. 13, no. 2. Dostupné na: <https://doi.org/10.3390/met13020392>, Registrované v: WOS*
5. [1.1] SATHISHKUMAR, M. - KUMAR, C.P. - GANESH, S.S.S. - VENKATESH, M. - RADHIKA, N. - VIGNESH, M. - PAZHANI, A. *Possibilities, performance and challenges of nitinol alloy fabricated by Directed Energy Deposition and Powder Bed Fusion for biomedical implants. In JOURNAL OF MANUFACTURING PROCESSES. ISSN 1526-6125, SEP 29 2023, vol. 102, p. 885-909. Dostupné na: <https://doi.org/10.1016/j.jmapro.2023.08.024>, Registrované v: WOS*
6. [1.1] SHARMA, A. - SHARMA, R. - THAKUR, R.C. - SINGH, L. *An overview of deep eutectic solvents: Alternative for organic electrolytes, aqueous systems & ionic liquids for electrochemical energy storage. In JOURNAL OF ENERGY CHEMISTRY. ISSN 2095-4956, JUL 2023, vol. 82, p. 592-626. Dostupné na: <https://doi.org/10.1016/j.jechem.2023.03.039>, Registrované v: WOS*
7. [1.2] LIU, Yafei - WANG, Lishi - LV, Zhigang - BU, Zhixiang - HU, Xinbin. *STUDIES ON CORROSION BEHAVIOR OF POLISHED NICKEL SURFACE WITH RESIN WETTED BY DEEP EUTECTIC SOLVENT. In Surface Review and Letters, 2023-05-01, 30, 5, pp. ISSN 0218625X. Dostupné na: <https://doi.org/10.1142/S0218625X23500324>, Registrované v: SCOPUS*
8. [1.2] SHANNA, Anand Kumar. *Surface Modification of Titanium. In Galvanotechnik, 2023-01-01, 114, 6, pp. 697-704. ISSN 00164232., Registrované v: SCOPUS*

ADCA227

KITYK, Anna** - PROTSENKO, V. - DANILOV, F.I. - BOBROVA, Lina - HNATKO, Miroslav - PAVLÍK, Viliam - ŠOLTÝS, Ján - LABUDOVÁ, Martina - RUSKOVÁ, Magdaléna - PANGALLO, Domenico. *Design of Ti-6Al-4V alloy surface properties by galvanostatic electrochemical treatment in a deep eutectic solvent Ethaline. In Surface & Coatings Technology, 2022, vol. 429, art. no. 127936. (2021: 4.865 - IF, Q1 - JCR, 0.922 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0257-8972. Dostupné na:*

<https://doi.org/10.1016/j.surfcoat.2021.127936> (ITMS2014+: 313021T081 :

Vybudovanie Centra pre využitie pokročilých materiálov Slovenskej akadémie vied)

Citácie:

1. [1.1] CHEN, X.D. - LIAO, Q.L. - GONG, M. - FU, Q.S. *Corrosion Performances of Selective Laser Melting Ti6Al4V Alloy in Different Solutions. In METALS. FEB 2023, vol. 13, no. 2. Dostupné na:*

<https://doi.org/10.3390/met13020192>, Registrované v: WOS

2. [1.1] CYSEWSKI, P. - JELINSKI, T. - PRZYBYLEK, M. *Intermolecular Interactions of Edaravone in Aqueous Solutions of Ethaline and Glyceline Inferred from Experiments and Quantum Chemistry Computations. In MOLECULES. JAN 2023, vol. 28, no. 2. Dostupné na:*

<https://doi.org/10.3390/molecules28020629>, Registrované v: WOS

3. [1.1] FENG, J. - SHI, Z.Y. - ZHAO, Y.C. - WANG, J. - YANG, X.D. - ZHAO, M.C. Surface Performance of Nano-CrN/TiN Multi-Layered Coating on the Surface of Ti Alloy. In MATERIALS. DEC 2023, vol. 16, no. 24. Dostupné na: <https://doi.org/10.3390/ma16247707>, Registrované v: WOS

4. [1.1] PARTOWAFKAN, S. - POUR-ALI, S. - TAVANGAR, R. - HEJAZI, S. Thermal oxidation of Ti-6Al-4V ELI with an ultrafine-grained surface at 500 °C: Oxidation kinetics, oxide characterization and corrosion performance. In SURFACE & COATINGS TECHNOLOGY. ISSN 0257-8972, SEP 25 2023, vol. 469. Dostupné na: <https://doi.org/10.1016/j.surfcoat.2023.129794>, Registrované v: WOS

5. [1.1] PRIHANDANA, G.S. - SRIANI, T. - JAMALUDIN, M.F. - YUSOF, F. - ARIFVIANTO, B. - MAHARDIKA, M. Parameters Optimization for Electropolishing Titanium by Using Taguchi-Based Pareto ANOVA. In METALS. FEB 2023, vol. 13, no. 2. Dostupné na: <https://doi.org/10.3390/met13020392>, Registrované v: WOS

6. [1.1] WANG, C.W. - ZHANG, Q.B. Recovering Co₃O₄ from waste choline chloride/ethylene glycol electrolyte containing Co(II) ions along with solvent regeneration. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, DEC 1 2023, vol. 326. Dostupné na:

<https://doi.org/10.1016/j.seppur.2023.124794>, Registrované v: WOS

ADCA228 KOKAVEC, Ján - HLÁŠNIK, Ivan - FUKUI, S. Very sensitive electric method for ac loss measurement in SC coils. In IEEE Transaction on Applied Superconductivity, 1993, vol. 3, p. 153.

Citácie:

1. [1.1] DOUINE, B. - QUEVAL, L. - TRILLAUD, F. - FAWAZ, S. - MENANA, H. - SCHWENKER, I. - DESPOUYS, O. - IVANOV, N. Characterization of a Superconducting Power Filter for Embedded Electrical Grid Application. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, JUN 2022, vol. 32, no. 4. Dostupné na: <https://doi.org/10.1109/TASC.2022.3152678>, Registrované v: WOS

ADCA229 KOKAVEC, Ján - CESNAK, Ladislav. Mechanical stresses in cylindrical superconducting coils. In Journal of Physics D: Applied Physics, 1977, vol. 10, p. 1451. ISSN 0022-3727.

Citácie:

1. [1.1] TA, W. - TANG, X.Y. - ZHOU, Y.H. An electrometric method for the interface stress and contact resistance of pancake coil under winding force. In REVIEW OF SCIENTIFIC INSTRUMENTS. ISSN 0034-6748, JAN 1 2023, vol. 94, no. 1. Dostupné na: <https://doi.org/10.1063/5.0135353>, Registrované v: WOS

2. [1.1] THEKKETHIL, S.R. - RASTOGI, V. - KAR, S. Multiphysics Stress Analysis of a 1.5 T Superconducting MRI Magnet. In JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM. ISSN 1557-1939, FEB 2023, vol. 36, no. 2, p. 467-476. Dostupné na: <https://doi.org/10.1007/s10948-023-06502-x>, Registrované v: WOS

ADCA230 KOLENČÍK, M. - ŠTRBA, Peter - ŠEBESTA, M. - KRATOŠOVÁ, G. - URÍK, M. - VÁVRA, Ivo - PEIKERTOVÁ, P. - POLLÁKOVÁ, Nora - ŠIMANSKÝ, Vladimír - FENG, H. - QIAN, Y. - RAMAKANTH, I. Nanogold biosynthesis mediated by mixed flower pollen grains. In Journal of Nanoscience and Nanotechnology, 2019, vol. 19, p. 2983-2988. (2018: 1.093 - IF, Q4 - JCR, 0.233 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1533-4880. Dostupné na: <https://doi.org/10.1166/jnn.2019.15853>

Citácie:

ADCA231

1. [1.1] NITHIN, B.R. - BHUYAR, P. - MANIAM, G.P. - RAHIM, M.H.A. - GOVINDAN, N. *Environment Friendly Approach for Plant Mediated Green Biosynthesis of Gold Nanoparticles and Their Modern Applications in Biomedical Aspects-an Updated Report. In BIONANOSCIENCE. ISSN 2191-1630, DEC 2023, vol. 13, no. 4, p. 1517-1540. Dostupné na: <https://doi.org/10.1007/s12668-023-01134-w>, Registrované v: WOS*

KOLENČÍK, Marek** - ERNST, D. - KOMÁR, M. - URÍK, Martin - ŠEBESTA, M. - DOBROČKA, Edmund - ČERNÝ, I. - ILLA, R. - KANIKE, R. - QIAN, Y. - FENG, Huan - ORLOVÁ, D. - KRATOŠOVÁ, G. *Effect of foliar spray application of zinc oxide nanoparticles on quantitative, nutritional, and physiological parameters of foxtail millet (Setaria italica L.) under field conditions. In Nanomaterials-Basel : Special Issue "Nanotech for Medicine and Pharmacy: Selected Papers from Nano Ostrava Meeting 2019", 2019, vol. 9, no. 11, no. 1559. (2018: 4.034 - IF, Q1 - JCR, 0.896 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 2079-4991. Dostupné na: <https://doi.org/10.3390/nano9111559>*

Citácie:

1. [1.1] BASIT, F. - SHAHID, M. - ABBAS, S. - NAQQASH, T. - AKRAM, M.S. - TAHIR, M. - AZEEM, M. - CAI, Y.B. - JIA, S.H. - HU, J. - LIANG, X.Q. - GUAN, Y.J. *Protective role of ZnO nanoparticles in soybean seedlings growth and stress management under Cr-enriched conditions. In PLANT GROWTH REGULATION. ISSN 0167-6903, JUL 2023, vol. 100, no. 3, p. 703-716. Dostupné na: <https://doi.org/10.1007/s10725-023-00965-7>, Registrované v: WOS*

2. [1.1] BEDI, A. - SINGH, B.R. *Microcosm based bio-efficacy evaluation of biologically produced nano-Zn-Fe fertiliser. In ADVANCES IN NATURAL SCIENCES-NANOSCIENCE AND NANOTECHNOLOGY. ISSN 2043-6254, JUN 1 2022, vol. 13, no. 2. Dostupné na: <https://doi.org/10.1088/2043-6262/ac6c27>, Registrované v: WOS*

3. [1.1] DING, Y.R. - ZHAO, W.C. - ZHU, G.K. - WANG, Q.L. - ZHANG, P. - RUI, Y.K. *Recent Trends in Foliar Nanofertilizers: A Review. In NANOMATERIALS. NOV 2023, vol. 13, no. 21. Dostupné na: <https://doi.org/10.3390/nano13212906>, Registrované v: WOS*

4. [1.1] GARG, D. - SRIDHAR, K. - INBARAJ, B.S. - CHAWLA, P. - TRIPATHI, M. - SHARMA, M. *Nano-Biofertilizer Formulations for Agriculture: A Systematic Review on Recent Advances and Prospective Applications. In BIOENGINEERING-BASEL. SEP 2023, vol. 10, no. 9. Dostupné na: <https://doi.org/10.3390/bioengineering10091010>, Registrované v: WOS*

5. [1.1] LU, T.Q. - WANG, X.N. - CUI, X.L. - LI, J.F. - XU, J. - XU, P. - WAN, J.P. *Physiological and metabolomic analyses reveal that Fe₃O₄ nanoparticles ameliorate cadmium and arsenic toxicity in Panax notoginseng. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, NOV 15 2023, vol. 337. Dostupné na: <https://doi.org/10.1016/j.envpol.2023.122578>, Registrované v: WOS*

6. [1.1] MAHMOUD, N.E. - ABDELHAMEED, R.M. *Use of titanium dioxide doped multi-wall carbon nanotubes as promoter for the growth, biochemical indices of Sesamum indicum L. under heat stress conditions. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, AUG 2023, vol. 201. Dostupné na: <https://doi.org/10.1016/j.plaphy.2023.107844>, Registrované v: WOS*

7. [1.1] NANDINI, B. - MAWALE, K.S. - GIRIDHAR, P. *Nanomaterials in agriculture for plant health and food safety: a comprehensive review on the current state of agro-nanoscience. In 3 BIOTECH. ISSN 2190-572X, MAR 2023, vol. 13, no. 3. Dostupné na: <https://doi.org/10.1007/s13205-023-03470-w>, Registrované v: WOS*

8. [1.1] PERIAKARUPPAN, R. - ROMANOVSKI, V. - THIRUMALAISAMY, S.K. - PALANIMUTHU, V. - SAMPATH, M.P. - ANILKUMAR, A. - SIVARAJ, D.K. - AHAMED, N.A.N. - MURUGESAN, S. - CHANDRASEKAR, D. - SELVARAJ, K.S.V. *Innovations in Modern Nanotechnology for the Sustainable Production of Agriculture*. In *CHEMENGINEERING*. AUG 2023, vol. 7, no. 4. Dostupné na: <https://doi.org/10.3390/chemengineering7040061>, Registrované v: WOS
9. [1.1] SONG, X.E. - WANG, H. - DONG, Q.H. - QIU, T. - SHI, C.Y. - LI, X.R. - DONG, S.Q. - ZHAO, J. - GUO, P.Y. - YUAN, X.Y. *Comprehensive Evaluation and Main Identification Indexes of Herbicide Resistance of High-Quality Foxtail Millet (Setaria italica L.)*. In *AGRONOMY-BASEL*. DEC 2023, vol. 13, no. 12. Dostupné na: <https://doi.org/10.3390/agronomy13123033>, Registrované v: WOS
10. [1.1] ZAFAR, H. - JAVED, R. - ZIA, M. *Nanotoxicity assessment in plants: an updated overview*. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, SEP 2023, vol. 30, no. 41, p. 93323-93344. Dostupné na: <https://doi.org/10.1007/s11356-023-29150-z>, Registrované v: WOS
11. [1.2] DOBRESCU, Codruta Mihaela - DOROBÁT, Leonard Magdalin - NEBLEA, Monica Angela. *Health, safety and environmental management and risk mitigation of nanomaterials*. In *Nanoformulations for Sustainable Agriculture and Environmental Risk Mitigation*, 2023-07-31, pp. 177-209. Dostupné na: <https://doi.org/10.1079/9781800623095.0010>, Registrované v: SCOPUS
12. [1.2] KHAN, Fahad - IJAZ, Munazza - AKHLAQ, Azka - NAWAZ, Shahid - MUNAWAR, Junaid - RASHID, Ehsan Ullah. *Applications of nanomaterials to build a sustainable agriculture system*. In *Nanomaterials for Bioreactors and Bioprocessing Applications*, 2023-01-01, pp. 427-453. Dostupné na: <https://doi.org/10.1016/B978-0-323-91782-7.00013-8>, Registrované v: SCOPUS
13. [1.2] XU, Tao - ZHENG, Fan - ZHAO, Yong. *Biophysicochemical transformations of ENMs in air*. In *Physicochemical Interactions of Engineered Nanoparticles and Plants: A Systemic Approach*, 2022-01-01, pp. 143-173. Dostupné na: <https://doi.org/10.1016/B978-0-323-90558-9.00010-3>, Registrované v: SCOPUS

ADCA232 KOLENČÍK, Marek** - ERNST, D. - URÍK, Martin - ĎURIŠOVÁ, Ľuba - BUJDOŠ, M. - ŠEBESTA, M. - DOBROČKA, Edmund - KŠIŇAN, S. - ILLA, R. - QIAN, Y. - FENG, Huan - ČERNÝ, I. - HOLIŠOVÁ, V. - KRATOŠOVÁ, G. *Foliar application of low concentrations of titanium dioxide and zinc oxide nanoparticles to the common sunflower under field conditions*. In *Nanomaterials-Basel*, 2020, vol. 10, no. 1629. (2019: 4.324 - IF, Q2 - JCR, 0.858 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 2079-4991. Dostupné na: <https://doi.org/10.3390/nano10081619>

Citácie:

1. [1.1] BRAR, P.S. - BHARDWAJ, G. - CHAUHAN, A. *A review on understanding the efficient source of balanced crop nutrition through nanotechnology in agriculture*. In *JOURNAL OF PLANT NUTRITION*. ISSN 0190-4167, AUG 9 2023, vol. 46, no. 13, p. 3221-3231. Dostupné na: <https://doi.org/10.1080/01904167.2023.2179923>, Registrované v: WOS
2. [1.1] DING, Y.R. - ZHAO, W.C. - ZHU, G.K. - WANG, Q.L. - ZHANG, P. - RUI, Y.K. *Recent Trends in Foliar Nanofertilizers: A Review*. In *NANOMATERIALS*. NOV 2023, vol. 13, no. 21. Dostupné na: <https://doi.org/10.3390/nano13212906>, Registrované v: WOS
3. [1.1] JANGAM, D. - TOLLAMADUGU, N.V.K.V.P. - CHALLA, S.R. - MANCHALA, M.L. - VATLURI, S.R. *Conjunctive and concentration dependent effects of nanoscale zinc and boron on the physiological, biochemical, nutrient uptake, and translocation processes in peanut (Arachis hypogaea L.)*. In

- JOURNAL OF PLANT NUTRITION*. ISSN 0190-4167, NOV 8 2023, vol. 46, no. 18, p. 4494-4518. Dostupné na: <https://doi.org/10.1080/01904167.2023.2233566>, Registrované v: WOS
4. [1.1] KAMAL, R. - MOGAZY, A.M. Effect of Doping on TiO₂ Nanoparticles Characteristics: Studying of Fertilizing Effect on Cowpea Plant Growth and Yield. In *JOURNAL OF SOIL SCIENCE AND PLANT NUTRITION*. ISSN 0718-9508, MAR 2023, vol. 23, no. 1, p. 325-337. Dostupné na: <https://doi.org/10.1007/s42729-021-00648-0>, Registrované v: WOS
5. [1.1] LV, X. - SHA, H.D. - YE, Z. - WANG, Y. - MAO, B.Z. Nanomaterials in plant management: functions, mechanisms and prospects. In *ENVIRONMENTAL SCIENCE-NANO*. ISSN 2051-8153, DEC 7 2023, vol. 10, no. 12, p. 3232-3252. Dostupné na: <https://doi.org/10.1039/d3en00014a>, Registrované v: WOS
6. [1.1] OYETADE, J.A. - MACHUNDA, R.L. - HILONGA, A. Functional impacts of polyaniline in composite matrix of photocatalysts: an instrumental overview. In *RSC ADVANCES*. MAY 22 2023, vol. 13, no. 23, p. 15467-15489. Dostupné na: <https://doi.org/10.1039/d3ra01243c>, Registrované v: WOS
7. [1.1] PRASAD, T.N.V.K.V. - SWETHASREE, M. - SATISHA, G.C. - KUMAR, A.R.N. - SUDHAKAR, P. - REDDY, B.R. - SARITHA, M. - SABITHA, N. - REDDY, B.V.B. - RAJASEKHAR, P. - PRASANTHI, L. - GIRISH, B.P. - CHOUDHURY, S.R. Nanoparticulate Silica Internalization and Its Effect on the Growth and Yield of Groundnut (*Arachis hypogaea* L.). In *ENVIRONMENTAL SCIENCE & TECHNOLOGY*. ISSN 0013-936X, APR 11 2023, vol. 57, no. 14, p. 5881-5890. Dostupné na: <https://doi.org/10.1021/acs.est.3c00327>, Registrované v: WOS
8. [1.1] SENBILL, H. - HASSAN, S.M. - ELDESOUKY, S.E. Acaricidal and biological activities of Titanium dioxide and Zinc oxide nanoparticles on the two-spotted spider mite, *Tetranychus urticae* Koch (Acari: Tetranychidae) and their side effects on the predatory mite, *Neoseiulus californicus* (Acari: Phytoseiidae). In *JOURNAL OF ASIA-PACIFIC ENTOMOLOGY*. ISSN 1226-8615, MAR 2023, vol. 26, no. 1. Dostupné na: <https://doi.org/10.1016/j.aspen.2022.102027>, Registrované v: WOS
9. [1.1] SHAH HOSEINI, R. - DANESHVAR, H. Phytochemical and physiological reactions of feverfew (*Tanacetum parthenium* (L.) Schultz Bip) to TiO₂ nanoparticles. In *PLANT PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0981-9428, JAN 2023, vol. 194, p. 674-684. Dostupné na: <https://doi.org/10.1016/j.plaphy.2022.12.011>, Registrované v: WOS
10. [1.1] VERMA, N. - KAUSHAL, P. - GAHALOT, D. - SIDHU, A.K. - KAUR, K. Mechanistic Aspect of Zinc Oxide Nanoparticles in Alleviating Abiotic Stress in Plants - A Sustainable Agriculture Approach. In *BIONANOSCIENCE*. ISSN 2191-1630, DEC 2023, vol. 13, no. 4, p. 1645-1661. Dostupné na: <https://doi.org/10.1007/s12668-023-01192-0>, Registrované v: WOS
11. [1.1] YADAV, N. - GARG, V.K. - CHHILLAR, A.K. - RANA, J.S. Recent advances in nanotechnology for the improvement of conventional agricultural systems: A review. In *PLANT NANO BIOLOGY*. MAY 2023, vol. 4. Dostupné na: <https://doi.org/10.1016/j.plana.2023.100032>, Registrované v: WOS
12. [1.1] ZHANG, T.T. - CHEN, H.M. - TAN, C.H. - LI, L. - ZHANG, L.B. - LIU, C. - LI, W.H. - YAN, C.Q. - LI, J.S. - LU, R. Elucidating the binding mechanism between bovine serum albumin and TiO₂ nanoparticles with diverse properties: Insights from spectroscopic methods and molecular docking simulation. In *CHEMICAL PHYSICS*. ISSN 0301-0104, SEP 1 2023, vol. 573. Dostupné na: <https://doi.org/10.1016/j.chemphys.2023.111993>, Registrované v: WOS
13. [1.2] AL-JUTHERY, Hayyawi W.A. - LAHMOUD, Nabil R. - ALHASAN, Ali

S. - AL-JASSANI, Nisreen A.A. - HOURIA, Adem. Nano-Fertilizers as a Novel Technique for Maximum Yield in Wheat Biofortification (Article Review). In IOP Conference Series: Earth and Environmental Science, 2022-08-02, 1060, 1, pp. ISSN 17551307. Dostupné na: <https://doi.org/10.1088/1755-1315/1060/1/012043>, Registrované v: SCOPUS

14. [1.2] ASHRAF, Umair - SHAHID, Muhammad Naveed - BATOOL, Fatima - MAHMOOD, Sammina - MUSTAFA, Ghulam M. - AQEEL, Muhammad - ABRAR, Muhammad - NAWAZ, Hummera. Application of nanomaterials in agriculture. In The Impact of Nanoparticles on Agriculture and Soil, 2023-01-01, pp. 259-283. Dostupné na: <https://doi.org/10.1016/B978-0-323-91703-2.00011-7>, Registrované v: SCOPUS

15. [1.2] DOBRESCU, Codruta Mihaela - DOROBĂȚ, Leonard Magdalin - NEBLEA, Monica Angela. Health, safety and environmental management and risk mitigation of nanomaterials. In Nanoformulations for Sustainable Agriculture and Environmental Risk Mitigation, 2023-07-31, pp. 177-209. Dostupné na: <https://doi.org/10.1079/9781800623095.0010>, Registrované v: SCOPUS

16. [1.2] HUSSAIN, Sajad - MUMTAZ, Maryam - BRESTIC, Marian - PARVEEN, Abida - ULHASSAN, Zaid - HOU, Harvey J.M. - SKALICKY, Milan - YASIN, Hassan Shehryar - BIN KHALID, Muhammad Hayder - SAEED, Amjad - AHMAD, Irshan - ALLAKHVERDIEV, Suleyman I. - REHMAN, Sana Ur - YANG, Wenyu. Effectiveness of titanium treatment on photosynthesis and production in crop plants under stress conditions. In Photosynthesis: From Plants to Nanomaterials, 2023-01-01, pp. 137-152. Dostupné na: <https://doi.org/10.1016/B978-0-323-98391-4.00013-7>, Registrované v: SCOPUS

17. [1.2] TALEBI, Seyed Mehdi - GHORBANPOUR, Mansour. Nanoparticles treatment ameliorate the side effects of stresses in plants. In Plant Stress Mitigators: Types, Techniques and Functions, 2023-01-01, pp. 469-478. Dostupné na: <https://doi.org/10.1016/B978-0-323-89871-3.00010-0>, Registrované v: SCOPUS

18. [1.2] XU, Tao - ZHENG, Fan - ZHAO, Yong. Biophysicochemical transformations of ENMs in air. In Physicochemical Interactions of Engineered Nanoparticles and Plants: A Systemic Approach, 2022-01-01, pp. 143-173. Dostupné na: <https://doi.org/10.1016/B978-0-323-90558-9.00010-3>, Registrované v: SCOPUS

ADCA233 **KORDOŠ, Peter** - HEIDELBERG, G. - BERNÁT, J. - FOX, A. - MARSO, M. - LUTH, H. High-power SiO₂/AlGa_N/Ga_N metal-insulator-semiconductor heterostructure field-effect transistors. In Applied Physics Letters, 2005, vol. 87, p. 143501-143504. (2004: 4.308 - IF, karentované - CCC). (2005 - Current Contents, SCOPUS). ISSN 0003-6951.

Citácie:

1. [1.1] BHARDWAJ, N. - UPADHYAY, B.B. - PARVEZ, B. - POHEKAR, P. - YADAV, Y. - SAHU, A. - PATIL, M. - BASAK, S. - SAHU, J. - SABIHA, F.S.A. - GANGULY, S. - SAHA, D. Improved RF-DC characteristics and reduced gate leakage in GaN MOS-HEMTs using thermally grown Nb₂O₅ gate dielectric. In PHYSICA SCRIPTA. ISSN 0031-8949, JAN 1 2023, vol. 98, no. 1. Dostupné na: <https://doi.org/10.1088/1402-4896/aca438>, Registrované v: WOS

2. [1.1] BHARDWAJ, N. - UPADHYAY, B.B. - YADAV, Y.K. - SURAPANENI, S. - GANGULY, S. - SAHA, D. Thermally grown Nb-oxide for GaN-based MOS-diodes. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, JAN 15 2022, vol. 572. Dostupné na: <https://doi.org/10.1016/j.apsusc.2021.151332>, Registrované v: WOS

3. [1.1] HUANG, K.N. - LIN, Y.C. - WU, C.Y. - LEE, J.H. - HSU, C.C. - YAO, J.N.

- CHIEN, C.H. - CHANG, E.Y. Study of p-GaN Gate MOS-HEMT with Al₂O₃ Insulator for High-Power Applications. In JOURNAL OF ELECTRONIC MATERIALS. ISSN 0361-5235, APR 2023, vol. 52, no. 4, p. 2865-2870. Dostupné na: <https://doi.org/10.1007/s11664-023-10252-w>, Registrované v: WOS

4. [1.1] MANSUROV, V. - MALIN, T. - GOLYASHOV, V. - MILAKHIN, D. - ZHURAVLEV, K. Investigation of the effect of different types of SiN layers and cap-GaN on the surface electronic states of AlGa_N/Ga_N heterostructures with 2DEG using X-ray and UV photoelectron spectroscopy. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, DEC 15 2023, vol. 640. Dostupné na: <https://doi.org/10.1016/j.apsusc.2023.158313>, Registrované v: WOS

5. [1.1] MOSBAHI, H. - ESSAOUDI, A. - GORJI, N.E. - GASSOUMI, A. - ALMOHAMMEDI, A. - HELALI, A. - GASSOUMI, M. Colossal permittivity, impedance analysis and electric properties in AlGa_N/Ga_N HEMTs. In JOURNAL OF OVONIC RESEARCH. ISSN 1842-2403, NOV-DEC 2023, vol. 19, no. 6, p. 763-773. Dostupné na: <https://doi.org/10.15251/JOR.2023.196.763>, Registrované v: WOS

ADCA234 KORDOŠ, Peter - MORVIC, Marian - BETKO, Július - NOVÁK, Jozef - FLYNN, J. - BRANDES, Georg. Conductivity and Hall effect of freestanding highly-resistive epitaxial GaN:Fe substrates. In Applied Physics Letters, 2004, vol. 85, p. 5616-5620. (2003: 4.049 - IF, karentované - CCC). (2004 - Current Contents, WOS, SCOPUS). ISSN 0003-6951.

Citácie:

1. [1.1] ODANI, T. - ISO, K. - OSHIMA, Y. - IKEDA, H. - MOCHIZUKI, T. - IZUMISAWA, S. Crystallization of high-resistivity Zn-doped GaN monocrystal via hydride vapor phase epitaxy. In JOURNAL OF CRYSTAL GROWTH. ISSN 0022-0248, NOV 15 2023, vol. 622. Dostupné na: <https://doi.org/10.1016/j.jcrysgro.2023.127389>, Registrované v: WOS

2. [1.1] TANAKA, D. - ISO, K. - SUDA, J. Comparative study of electrical properties of semi-insulating GaN substrates grown by hydride vapor phase epitaxy and doped with Fe, C, or Mn. In JOURNAL OF APPLIED PHYSICS. ISSN 0021-8979, FEB 7 2023, vol. 133, no. 5. Dostupné na: <https://doi.org/10.1063/5.0131470>, Registrované v: WOS

ADCA235 KORDOŠ, Peter - BERNÁT, J. - MARSO, M. Impact of layer structure on performance of unpassivated AlGa_N/Ga_N HEMT. In Microelectronics Journal, 2005, vol. 36, p. 438-441.

Citácie:

1. [1.1] DU, C.L. - YE, R. - CAI, X.L. - DUAN, X.Y. - LIU, H.J. - ZHANG, Y. - QIU, G. - MI, M.H. A review on GaN HEMTs: nonlinear mechanisms and improvement methods. In JOURNAL OF SEMICONDUCTORS. ISSN 1674-4926, DEC 1 2023, vol. 44, no. 12. Dostupné na: <https://doi.org/10.1088/1674-4926/44/12/121801>, Registrované v: WOS

ADCA236 KORDOŠ, Peter - GREGUŠOVÁ, Dagmar - STOKLAS, Roman - ČIČO, Karol - NOVÁK, Jozef. Improved transport properties of Al₂O₃/AlGa_N/Ga_N metal-oxide-semiconductor heterostructure field-effect transistor. In Applied Physics Letters, 2007, vol. 90, no. 123513. (2006: 3.977 - IF, Q1 - JCR, 3.459 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents, SCOPUS). ISSN 0003-6951.

Citácie:

1. [1.1] CONG, Z.Z. - LU, X.L. - HE, Y.L. - CAI, M.S. - WANG, X. - WANG, Y. - MA, X.H. - HAO, Y. Ferroelectric passivation layer derived high performance AlGa_N/Ga_N heterojunction field-effect transistor. In APPLIED PHYSICS LETTERS. ISSN 0003-6951, NOV 20 2023, vol. 123, no. 21. Dostupné na: <https://doi.org/10.1063/5.0162453>, Registrované v: WOS

- ADCA237 KORDOŠ, Peter - MORVIC, Marian - BETKO, Július - HOVE, J. M. van - WOWCHAK, A.M. - CHOW, P.P. Conductivity and Hall effect characterization of highly resistive molecular-beam epitaxial GaN layers. In Journal of Applied Physics, 2000, vol. 88, no. 10, p. 5821-5826. (1999: 2.275 - IF). ISSN 0021-8979.
Citácie:
1. [1.1] TANG, C.Y. - FU, C. - JIANG, Y. - HE, M.H. - DENG, C.K. - WEN, K.Y. - HE, J.Q. - WANG, P.R. - DU, F.Z. - ZHANG, Y. - HU, Q.Y. - TAO, N. - WANG, Q. - YU, H.Y. Carrier transport mechanism of Mg/Pt/Au Ohmic contact on p-GaN/AlGaIn/GaN platform with ultra-low resistivity. In APPLIED PHYSICS LETTERS. ISSN 0003-6951, AUG 28 2023, vol. 123, no. 9. Dostupné na: <https://doi.org/10.1063/5.0154841>, Registrované v: WOS
- ADCA238 KORDOŠ, Peter - MARSO, M. - FÖRSTER, A. - DARMO, Juraj - BETKO, Július - NIMTZ, G. Space-charge controlled conduction in low-temperature-grown molecular-beam epitaxial GaAs. In Applied Physics Letters, 1997, vol. 71, p. 1118. (1996: 3.092 - IF, karentované - CCC). (1997 - Current Contents, SCOPUS). ISSN 0003-6951.
Citácie:
1. [1.2] CURRIE, Marc. Low-temperature grown gallium arsenide (LT-GaAs) high-speed detectors. In Photodetectors: Materials, Devices and Applications, 2023-01-01, pp. 293-326. Dostupné na: <https://doi.org/10.1016/B978-0-08-102795-0.00009-8>, Registrované v: SCOPUS
- ADCA239 KORDOŠ, Peter - MIKULICS, M. - FOX, A. - GREGUŠOVÁ, Dagmar - ČIČO, Karol - CARLIN, J.-F. - GRANDJEAN, N. - NOVÁK, Jozef - FRÖHLICH, Karol. RF performance of InAlN/GaN HFETs and MOSHFETs with fT x LG up to 21 GHz • μm. In IEEE Electron Devices Letters, 2010, vol. 31, p. 180-182. (2009: 2.605 - IF, 2.188 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0741-3106. Dostupné na: <https://doi.org/10.1109/LED.2009.2038078>
Citácie:
1. [1.1] CUI, P. - MOSER, N. - CHEN, H. - XIAO, J.Q. - CHABAK, K.D. - ZENG, Y.P. High-performance HZO/InAlN/GaN MISHEMTs for Ka-band application. In SEMICONDUCTOR SCIENCE AND TECHNOLOGY. ISSN 0268-1242, MAR 1 2023, vol. 38, no. 3. Dostupné na: <https://doi.org/10.1088/1361-6641/acb2ea>, Registrované v: WOS
2. [1.1] HE, Y.W. - ZHANG, L. - CHENG, Z. - LI, C.C. - HE, J.H. - XIE, S.J. - WU, X.K. - WU, C. - ZHANG, Y. Scaled InAlN/GaN HEMT on Sapphire With fT/fmax of 190/301 GHz. In IEEE TRANSACTIONS ON ELECTRON DEVICES. ISSN 0018-9383, JUN 2023, vol. 70, no. 6, SI, p. 3001-3004. Dostupné na: <https://doi.org/10.1109/TED.2023.3269728>, Registrované v: WOS
- ADCA240 KORDOŠ, Peter - STOKLAS, Roman - GREGUŠOVÁ, Dagmar - NOVÁK, Jozef. Characterization of AlGaIn/GaN metal-oxide-semiconductor field-effect transistors by frequency dependent conductance analysis. In Applied Physics Letters, 2009, vol. 94, 223512. (2008: 3.726 - IF, Q1 - JCR, 2.894 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, SCOPUS). ISSN 0003-6951.
Citácie:
1. [1.1] CUI, P. - MOSER, N. - CHEN, H. - XIAO, J.Q. - CHABAK, K.D. - ZENG, Y.P. High-performance HZO/InAlN/GaN MISHEMTs for Ka-band application. In SEMICONDUCTOR SCIENCE AND TECHNOLOGY. ISSN 0268-1242, MAR 1 2023, vol. 38, no. 3. Dostupné na: <https://doi.org/10.1088/1361-6641/acb2ea>, Registrované v: WOS
2. [1.1] GOMENIUK, Y.V. - GOMENIUK, Y.Y. - KONDRATENKO, S.V. - RUDENKO, T.E. - VASIN, A.V. - RUSAVSKY, A.V. - SLOBODIAN, O.M. - TYAGULSKYY, I.P. - KOSTYLYOV, V.P. - VLASIUK, V.M. - TIAGULSKYI, S.I. -

YATSKIV, R. - LYSENKO, V.S. - NAZAROV, A.N. *Effect of PEDOT:PSS Layer Deposition on Electrical and Photoelectrical Properties of n-Si/ZnO/n-Si Heterostructure*. In *JOURNAL OF ELECTRONIC MATERIALS*. ISSN 0361-5235, MAY 2023, vol. 52, no. 5, SI, p. 3112-3120. Dostupné na: <https://doi.org/10.1007/s11664-023-10276-2>, Registrované v: WOS

ADCA241 KORDOŠ, Peter - MIKULICS, M. - STOKLAS, Roman - ČIČO, Karol - DADGAR, A. - GRÜTZMACHER, D. - KROST, A. Thermally oxidized InAlN of different compositions for InAlN/GaN heterostructure field-effect transistors. In *Journal of Electronics Materials*, 2012, vol. 41, p. 3013-3016. (2011: 1.466 - IF, Q2 - JCR, 0.844 - SJR, Q1 - SJR). ISSN 0361-5235. Dostupné na: <https://doi.org/10.1007/s11664-012-2096-4>

Citácie:

1. [1.1] XUE, H.T. - PALMESE, E. - SONG, R.B. - CHOWDHURY, M.I. - STRANDWITZ, N.C. - WIERER, J. *Structural and optical characterization of thin AlInN films on c-plane GaN substrates*. In *JOURNAL OF APPLIED PHYSICS*. ISSN 0021-8979, AUG 21 2023, vol. 134, no. 7. Dostupné na: <https://doi.org/10.1063/5.0136004>, Registrované v: WOS

ADCA242 KORCHAGIN, S.A.** - GATAULLIN, S.T. - OSIPOV, A.V. - SMIRNOV, M.V. - SUVOROV, S.V. - SERDECHNYI, D.V. - BUBLIKOV, Konstantin. Development of an optimal algorithm for detecting damaged and diseased potato tubers moving along a conveyor belt using computer vision systems. In *Agronomy-Basel*, 2021, vol. 11, no. 10, art. no. 1980. (2020: 3.417 - IF, Q1 - JCR, 0.707 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2073-4395. Dostupné na: <https://doi.org/10.3390/agronomy11101980>

Citácie:

1. [1.1] GUL, Z. - BORA, S. *Exploiting Pre-Trained Convolutional Neural Networks for the Detection of Nutrient Deficiencies in Hydroponic Basil*. In *SENSORS*. JUN 2023, vol. 23, no. 12. Dostupné na: <https://doi.org/10.3390/s23125407>, Registrované v: WOS

<https://doi.org/10.3390/s23125407>, Registrované v: WOS

2. [1.1] XU, L.X. - CAO, B.X. - NING, S.Y. - ZHANG, W.B. - ZHAO, F.J. *Peanut leaf disease identification with deep learning algorithms*. In *MOLECULAR BREEDING*. ISSN 1380-3743, APR 2023, vol. 43, no. 4. Dostupné na: <https://doi.org/10.1007/s11032-023-01370-8>, Registrované v: WOS

3. [1.1] YU, F. - ZHANG, Q. - XIAO, J. - MA, Y.T. - WANG, M. - LUAN, R.P. - LIU, X. - PING, Y. - NIE, Y. - TAO, Z.Y. - ZHANG, H. *Progress in the Application of CNN-Based Image Classification and Recognition in Whole Crop Growth Cycles*. In *REMOTE SENSING*. JUN 2023, vol. 15, no. 12. Dostupné na: <https://doi.org/10.3390/rs15122988>, Registrované v: WOS

4. [1.2] CHEN, Ko Hua - YANG, Ming Der. *AUTOMATED GRADING SYSTEM FOR SWEET POTATO INDUSTRY USING APRILTAG AND EDANET*. In *44th Asian Conference on Remote Sensing, ACRS 2023, 2023-01-01, pp.*, Registrované v: SCOPUS

5. [1.2] WANG, Hucun - ZHAO, Wuyun - SUN, Wei - ZHANG, Hua - LIU, Xiaolong - LI, Hui. *Research progress on the technology and equipment for potato mechanized harvesting*. In *Nongye Gongcheng Xuebao/Transactions of the Chinese Society of Agricultural Engineering*, 2023-07-01, 39, 14, pp. 1-22. ISSN 10026819. Dostupné na: <https://doi.org/10.11975/j.issn.1002-6819.202303056>, Registrované v: SCOPUS

6. [1.2] XU, Laixiang - NING, Shiyuan - ZHANG, Wenbo - XU, Peng - ZHAO, Fengjie - CAO, Bingxu - HOU, Xiangguan. *Identification of leek diseases based on deep learning algorithms*. In *Journal of Ambient Intelligence and Humanized Computing*, 2023-10-01, 14, 10, pp. 14349-14364. ISSN 18685137. Dostupné na:

- <https://doi.org/10.1007/s12652-023-04674-x>, *Registrované v: SCOPUS*
- ADCA243 KORCHAGIN, S.A. - PLESHAKOVA, E. - ALEXANDROVA, I. - DOLGOV, V. - DOGADINA, E.** - SERDECHNYY, D.** - BUBLIKOV, Konstantin. Mathematical modeling of electrical conductivity of anisotropic nanocomposite with periodic structure. In *Mathematics*, 2021, vol. 9, no. 2948. (2020: 2.258 - IF, Q1 - JCR, 0.495 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math9222948>
- Citácie:
1. [1.1] ZHENG, X. - XIAO, J.H. - YAN, P. - XU, Y.L. *Evaluation of the effective elastic properties of periodic nanofiber composites with surface effect using eigenfunction expansion-variational method. In ACTA MECHANICA. ISSN 0001-5970, AUG 2023, vol. 234, no. 8, p. 3459-3468. Dostupné na:* <https://doi.org/10.1007/s00707-023-03567-6>, *Registrované v: WOS*
- ADCA244 KORCHAGIN, S.A. - ROMANOVA, E.** - NIKITIN, P. - SERDECHNYY, D. - BUBLIKOV, Konstantin - BYSTRENINA, I. Mathematical modeling of dielectric permeability and volt-ampere characteristics of a semiconductor nanocomposite conglomerate. In *Mathematics*, 2022, vol. 10, no. 596. (2021: 2.592 - IF, Q1 - JCR, 0.538 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math10040596>
- Citácie:
1. [1.1] SIMO, A. - FRIGURA-ILIASA, F.M. - FRIGURA-ILIASA, M. - ANDEA, P. *Improvements in the Electronic Performance of ZnO-Based Varistors by Modifying the Manufacturing Process Parameters. In ELECTRONICS. DEC 2023, vol. 12, no. 24. Dostupné na: https://doi.org/10.3390/electronics12244922, Registrované v: WOS*
- ADCA245 KORPELA, A. - KALLIOHAKA, T. - LEHTONEN, J. - MIKKONEN, R. - PITEL, Jozef - KOVÁČ, Pavol. Relation between different critical current criteria and quench current in HTS magnets. In *Physica C*, 2002, vol. 372-376, p. 1360-1363. (2001: 0.806 - IF, karentované - CCC). (2002 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.
- Citácie:
1. [1.1] LIU, D.H. - WEI, W.B. - TANG, Y.K. - YONG, H.D. - ZHOU, Y.H. *Delamination behaviors of an epoxy-impregnated REBCO pancake coil during a quench. In ENGINEERING FRACTURE MECHANICS. ISSN 0013-7944, MAR 28 2023, vol. 281. Dostupné na: https://doi.org/10.1016/j.engfracmech.2023.109074, Registrované v: WOS*
- ADCA246 KORYTÁR, Dušan** - ZÁPRAŽNÝ, Zdenko - FERRARI, C. - FRIGERI, C. - JERGEL, Matej - MATKO, Igor - KEČKĚŠ, Jozef. Cross-sectional TEM study of subsurface damage in SPDT machining of germanium optics. In *Applied Optics*, 2018, vol. 57, no. 8, p. 1940-1943. (2017: 1.791 - IF, Q3 - JCR, 0.715 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0003-6935. Dostupné na: <https://doi.org/10.1364/AO.57.001940>
- Citácie:
1. [1.1] XU, Jing - CHEN, Gong - QIAO, Jie - LAMBROPOULOS, John C. *Assessment of sub-micron subsurface damage in glass. In APPLIED OPTICS, 2023, vol. 62, no. 16, pp. 4161-4170. ISSN 1559-128X. Dostupné na: https://doi.org/10.1364/AO.488105, Registrované v: WOS*
2. [1.2] XU, Jing - CHEN, Gong - QIAO, Jie - LAMBROPOULOS, John C. *Assessment of sub-micron subsurface damage in glass. In Optical Fabrication and Testing in Proceedings Optica Design and Fabrication Congress 2023, IOFC, OFT Part of Optica Design and Fabrication Congress, 2023-01-01, pp., Registrované v: SCOPUS*

3. [1.2] XU, Jing - CHEN, Gong - QIAO, Jie - LAMBROPOULOS, John C. Subsurface damage assessment on femtosecond laser-processed surfaces. In *Proceedings of SPIE The International Society for Optical Engineering*, 2023-01-01, 12778, pp. ISSN 0277786X. Dostupné na:

<https://doi.org/10.1117/12.2691712>, Registrované v: SCOPUS

ADCA247

KOŘENKOVÁ, Lucia - ŠEBESTA, M. - URÍK, Martin - KOLENČÍK, Marek - KRATOŠOVÁ, G. - BUJDOŠ, M. - VÁVRA, Ivo - DOBROČKA, Edmund.

Physiological response of culture media-grown barley (*Hordeum vulgare* L.) to titanium oxide nanoparticles. In *Acta Agriculturae Scandinavica Section B - Soil & Plant Science*, 2017, vol. 67, p. 285-291. (2016: 0.340 - IF, Q4 - JCR, 0.403 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0906-4702.

Dostupné na: <https://doi.org/10.1080/09064710.2016.1267255>

Citácie:

1. [1.1] ABRAHIMI, F. - TAGHVAEI, M. - MASTINU, A. Nano-Organic Coatings Improve Early Vigor of *Brassica napus* L. Seeds in Water Deficit. In *AGRONOMY-BASEL. FEB 2023*, vol. 13, no. 2. Dostupné na:

<https://doi.org/10.3390/agronomy13020390>, Registrované v: WOS

2. [1.2] GUDA, Muthik A. Response of antioxidant in some plants to iron oxide nanoparticles. In *AIP Conference Proceedings*, 2023-12-22, 2977, 1, pp. ISSN 0094243X. Dostupné na: <https://doi.org/10.1063/5.0182305>, Registrované v: SCOPUS

3. [1.2] HUSAYN, Daea Mahdi - GUDA, Muthik A. Effect of zinc oxide nanoparticles on biomarkers of chlorophyll and carotene in some wild plants. In *AIP Conference Proceedings*, 2023-07-14, 2787, 1, pp. ISSN 0094243X. Dostupné na: <https://doi.org/10.1063/5.0148197>, Registrované v: SCOPUS

4. [1.2] HUSAYN, Daea Mahdi - GUDA, Muthik A. Response of some wild plants in antioxidant enzymes by zinc oxide nanoparticles. In *AIP Conference Proceedings*, 2023-07-14, 2787, 1, pp. ISSN 0094243X. Dostupné na: <https://doi.org/10.1063/5.0148199>, Registrované v: SCOPUS

ADCA248

KOSTIUK, Dmytro - BODIK, Michal - ŠIFFALOVIC, Peter - JERGEL, Matej - HALAHOVETS, Yurii - HODAS, Martin - PELLETTA, Marco - PELACH, Michal - HULMAN, Martin - ŠPITÁLSKY, Zdenko - OMASTOVÁ, Mária - MAJKOVÁ, Eva. Reliable determination of the few-layer graphene oxide thickness using Raman spectroscopy. In *Journal of Raman Spectroscopy*, 2016, vol. 47, no. 4, p. 391-394. (2015: 2.395 - IF, Q2 - JCR, 1.020 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0377-0486. Dostupné na: <https://doi.org/10.1002/jrs.4843>

Citácie:

1. [1.1] HEO, Jiwon - BAE, Hyojung - MANE, Pratik - BURUNGAL, Vishal - SEONG, Chaewon - HA, Jun-Seok. Surface Engineering of *Cusub2/subO* Photocathodes via Facile Graphene Oxide Decoration for Improved Photoelectrochemical Water Splitting. In *ACS OMEGA*, 2023, vol. 8, no. 36, pp. 32794-32803. ISSN 2470-1343. Dostupné na:

<https://doi.org/10.1021/acsomega.3c03585>, Registrované v: WOS

2. [1.1] MAITY, Palash Chandra - LAHIRI, Indranil. A two-dimensional hybrid of NiO nanowalls and reduced graphene oxide for superior field emission. In *DIAMOND AND RELATED MATERIALS*, 2023, vol. 139, no., pp. ISSN 0925-9635. Dostupné na: <https://doi.org/10.1016/j.diamond.2023.110339>, Registrované v: WOS

3. [1.1] NOURBAKHS, Hooriyeh Sadat - RAOUFI, Nahid - OMIDFAR, Kobra - ARDJMAND, Mehdi. A Sensitive Surface-Plasmon-Resonance (SPR)-Immunosensor Based on Multilayers of Graphene Oxide and Gold Nanoparticles for Epidermal Growth Factor Receptor Detection. In *IEEE SENSORS JOURNAL*,

2023, vol. 23, no. 1, pp. 300-307. ISSN 1530-437X. Dostupné na:

<https://doi.org/10.1109/JSEN.2022.3223105>, Registrované v: WOS

4. [1.1] ZARRIA-ROMERO, Jacquelyne Y. - OCAMPO-ANTICONA, Joao-Andre - PINOTTI, Camila N. - PASSAMANI, Edson C. - CHECCA-HUAMAN, Noemi-Raquel - CASTRO-MERINO, Isabel-Liz - SHIGA, Betty - RAMOS-GUIVAR, Juan A. Ecotoxicological properties of functionalized magnetic graphene oxide and multiwall carbon nanotubes in *Daphnia magna*. In CERAMICS INTERNATIONAL, 2023, vol. 49, no. 10, pp. 15200-15212. ISSN 0272-8842.

Dostupné na: <https://doi.org/10.1016/j.ceramint.2023.01.102>, Registrované v: WOS

5. [1.1] ZHANG XIAOYING - CHANG HANHUA - DAI TENGFEI - SU YOUNG - LIU XIANG - NI HAIBIN. Fiber Laser with Switchable Operating Modes Based on Graphene Oxide/Polystyrene Electro-Optic Modulator. In ACTA OPTICA SINICA, 2023, vol. 43, no. 2, pp. ISSN 0253-2239. Dostupné na:

<https://doi.org/10.3788/AOS221323>, Registrované v: WOS

ADCA249 KOVÁČ, Ján - ŠOUC, Ján - KOVÁČ, Pavol - HUŠEK, Imrich. Magnetization AC losses in MgB₂ wires made by IMD process. In Superconductor Science and Technology, 2015, vol. 28, 015013. (2014: 2.325 - IF, Q2 - JCR, 1.196 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/28/1/015013>

Citácie:

1. [1.1] AVCI, D. - YETIS, H. - GAJDA, D. - BABIJ, M. - TRAN, L.M. - KARABOGA, F. - AKSOY, C. - ZALESKI, A. - BELENLI, I. Optimized superconducting MgB₂ joint made by IMD technique. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, JUL 1 2023, vol. 36, no. 7.

Dostupné na: <https://doi.org/10.1088/1361-6668/accf3f>, Registrované v: WOS

ADCA250 KOVÁČ, Ján - ŠOUC, Ján - KOVÁČ, Pavol. Experimental study of the AC magnetization loss in MgB₂ superconducting wires at different temperatures. In Physica C, 2012, vol. 475, p. 1-4. (2011: 1.014 - IF, Q3 - JCR, 0.694 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 0921-4534. Dostupné na: <https://doi.org/10.1016/j.physc.2012.01.006>

Citácie:

1. [1.1] BALACHANDRAN, T. - ZHAO, Y.M. - SIRIMANNA, S. - XIAO, J.Q. - HARAN, K.S. Designing and Commissioning an Experimental Setup to Evaluate AC Losses in Superconductors Under Transverse Rotating Fields. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3261840>, Registrované v: WOS

ADCA251 KOVÁČ, Ján - KOPERA, Ľubomír - PARDO, Enric** - MELIŠEK, Tibor - RIES, Rastislav - BERBERICH, E. - WOLFSTÄDLER, S. - RIES, T. Measurement of AC loss down to 25 K in a REBCO racetrack coil for electrical aircraft motor. In Scientific Reports, 2022, vol. 12, no. 16454. (2021: 4.997 - IF, Q2 - JCR, 1.005 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-022-20625-6> (APVV 19-0536. VEGA 2/0036/21)

Citácie:

1. [1.1] SONG, H.H. - JIANG, Z.A. - SONG, W.J. Design Consideration and Conductor Selection of a Low AC Loss HTS REBCO Magnet Carrying High Currents at 20 K and 40 K. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3253072>, Registrované v: WOS

ADCA252 KOVÁČ, Jaroslav - ŠATKA, A. - CHVÁLA, A. - DONOVAL, D. - KORDOŠ,

Peter - DELAGE, S. Gate leakage current on GaN-based mesa- and planar-type heterostructure field-effect transistors. In *Microelectronics reliability*, 2012, vol. 52, p. 1323-1327. (2011: 1.167 - IF, Q2 - JCR, 0.607 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0026-2714. Dostupné na: <https://doi.org/10.1016/j.microrel.2012.02.003>

Citácie:

1. [1.1] AGHAYAN, M. - VALIZADEH, P. The isolation feature geometry dependence of reverse gate-leakage current of AlGaIn/GaN HFETs. In *PHYSICA SCRIPTA*. ISSN 0031-8949, SEP 1 2023, vol. 98, no. 9. Dostupné na:

<https://doi.org/10.1088/1402-4896/acec16>, Registrované v: WOS

ADCA253

KOVÁČ, Pavol - HUŠEK, Imrich - MELIŠEK, Tibor - GROVENOR, C.R.M. - HAIGH, S. - JONES, H. Improvement of the current carrying capability of ex situ MgB₂ wires by normal particle additions. In *Superconductor Science and Technology*. - Bristol : IOP Publishing, 2004, vol. 17, p. 1225-1230. (2003: 2.247 - IF, karentované - CCC). (2004 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] DA SILVA, L.B.S. - FERREIRA, P.H.O. - RODRIGUES, D. Study of NbB₂ Addition on the Superconducting Behavior of MgB₂ Bulks. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3258910>, Registrované v: WOS

2. [1.1] GRIVEL, J.C. Effect of Rb₂CO₃ and Cs₂CO₃ on MgB₂ in polycrystalline bulk samples. In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*. ISSN 0921-4534, JUN 15 2023, vol. 609. Dostupné na: <https://doi.org/10.1016/j.physc.2023.1354260>, Registrované v: WOS

3. [1.1] ZHANG, J. - HAENISCH, J. - YANG, X.S. - ZHAO, K. - ZHAO, Y. Effect of carbon doping on magnetic flux pinning and superconducting performance in FeSe_{0.5}Te_{0.5} single crystals. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, FEB 1 2023, vol. 36, no. 2. Dostupné na: <https://doi.org/10.1088/1361-6668/acadb5>, Registrované v: WOS

ADCA254

KOVÁČ, Pavol - HUŠEK, Imrich - MELIŠEK, Tibor - GRIVEL, J.C. - PACHLA, W. - ŠTRBÍK, Vladimír - DIDUSZKO, R. - HOMEYER, J. - ANDERSEN, N.H. The role of MgO content in ex situ MgB₂ wires. In *Superconductor Science and Technology*, 2004, vol. 17, p. L41-L46. (2003: 2.247 - IF, karentované - CCC). (2004 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] CHANGKUN, Y. - XIAGUANG, S. - LIAN, L. - YONGLIANG, C. - WENTAO, W. - MIN, X. - YONG, Z. - YONG, F. - ZHOU, Y. - YONG, Z. Reproducible stable critical current density in powder-in-tube (PIT) Nb₃Al superconductors by multi-time rapid heating and quenching process. In *INTERMETALLICS*. ISSN 0966-9795, SEP 2023, vol. 160. Dostupné na: <https://doi.org/10.1016/j.intermet.2023.107938>, Registrované v: WOS

2. [1.1] LUO, J.S. - GUO, Y.M. - LIU, L.A. - YU, Z. - ZHAO, Y. - HUANG, M. - XU, M. - DUAN, X.R. - ZHANG, Y. Investigation on the superconductivity of Nb₃Al by Zn doping and the effect of multi-RHQT process on the superconductivity of Nb₃(Al_{1-x}Zn_x). In *APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING*. ISSN 0947-8396, APR 2023, vol. 129, no. 4. Dostupné na: <https://doi.org/10.1007/s00339-023-06575-4>, Registrované v: WOS

3. [1.1] MAEDA, M. - MATSUMOTO, A. - NISHIJIMA, G. - HEO, Y.U. - HAHN, S. - LEE, S. - CHOI, S. - KIM, J.H. Performance of MgB₂ superconducting wire fabricated with non- identical Mg particles. In *JOURNAL OF ALLOYS AND*

COMPOUNDS. ISSN 0925-8388, SEP 5 2023, vol. 954. Dostupné na: <https://doi.org/10.1016/j.jallcom.2023.170148>, Registrované v: WOS

4. [1.1] WAN, F. - SUMPTION, M.D. - COLLINGS, E.W. Mechanism of enhanced critical fields and critical current densities of MgB₂ wires with C/Dy₂O₃ co-additions. In JOURNAL OF APPLIED PHYSICS. ISSN 0021-8979, JAN 14 2023, vol. 133, no. 2. Dostupné na: <https://doi.org/10.1063/5.0130589>, Registrované v: WOS

5. [1.1] YANG, C.K. - QU, P.S. - LI, S.L. - SUN, X.G. - XU, M. - LIU, L. - CHEN, Y.L. - WANG, W.T. - ZHANG, Y. - FENG, Y. - YU, Z. - ZHAO, Y. Improvement of critical current density J_c in powder-in-tube rapid heating, quenching and transformation Nb₃Al wires by doping with nano-SnO₂. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, JUN 1 2023, vol. 36, no. 6. Dostupné na: <https://doi.org/10.1088/1361-6668/acc6f9>, Registrované v: WOS

ADCA255 KOVÁČ, Pavol - DHALLÉ, M. - MELIŠEK, Tibor - VAN ECK, H.J.N. - WESSEL, W.A.J. - HAKEN, B. ten - HUŠEK, Imrich. Dependence of the critical current in ex situ multi- and mono-filamentary MgB₂/Fe wires on axial tension and compression. In Superconductor Science and Technology, 2003, vol. 16, p. 600-607. (2002: 2.138 - IF, karentované - CCC). (2003 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] IWANAKA, T. - KUSUNOKI, T. - KOTAKI, H. - KODAMA, M. - TANAKA, H. - MATSUMOTO, A. - HORII, S. - KAWAYAMA, I. - DOI, T. Flexural properties of a MgB₂ thin-film wire. In JAPANESE JOURNAL OF APPLIED PHYSICS. ISSN 0021-4922, FEB 1 2023, vol. 62, no. 2. Dostupné na: <https://doi.org/10.35848/1347-4065/acb38f>, Registrované v: WOS

ADCA256 KOVÁČ, Pavol - HUŠEK, Imrich - MELIŠEK, Tibor - HAESSLER, W. - HERRMANN, M. Improvement of current density by texture and I_c anisotropy in thin filament MgB₂/Fe tapes. In Superconductor Science and Technology, 2006, vol. 19, p. 998-1002. (2005: 1.896 - IF, Q1 - JCR, 1.409 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] YAO, C. - GUO, W.W. - ZHU, Y.C. - LIU, X.Y. - HAN, M. - LIU, F. - LIU, H.J. - QIN, J.G. - ZHENG, J.X. - MA, Y.W. Interface effects on the current transport properties of multi-layered (Ba, K)Fe₂As₂ superconducting wires. In JOURNAL OF MATERIALS CHEMISTRY C. ISSN 2050-7526, JAN 26 2023, vol. 11, no. 4, p. 1470-1482. Dostupné na: <https://doi.org/10.1039/d2tc04111a>, Registrované v: WOS

ADCA257 KOVÁČ, Pavol - MELIŠEK, Tibor - DHALLÉ, M. - DEN OUDEN, A. - HUŠEK, Imrich. Critical currents of MgB₂ wires prepared in situ and ex situ subjected to axial stress. In Superconductor Science and Technology. - Bristol : IOP Publishing, 2005, vol. 18, p. 1374-1379. (2004: 1.556 - IF, karentované - CCC). (2005 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] LIU, X. - SHI, Y. - LIU, F. - MA, H.J. - LIU, H.J. - ZHOU, C. - SONG, Y.T. - GAO, J. - ZHU, Y.C. - ZHANG, X.P. - WANG, D.L. - MA, Y.W. - ZHANG, Z. - WEI, S.Q. - QIN, J.G. Critical current degradation behavior of 7-filamentary Ba_{1-x}K_xFe₂As₂ tapes under uniaxial strain. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, JAN 1 2023, vol. 36, no. 1. Dostupné na: <https://doi.org/10.1088/1361-6668/aca4a7>, Registrované v: WOS

ADCA258 KOVÁČ, Pavol - HUŠEK, Imrich - MELIŠEK, Tibor. Aspect ratio and temperature effect on the I_c anisotropy in situ MgB₂ tapes. In Superconductor Science and Technology, 2006, vol. 19, p. 470-472. (2005: 1.896 - IF, Q1 - JCR, 1.409 - SJR, Q1

- SJR, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] IWANAKA, T. - KUSUNOKI, T. - KOTAKI, H. - KODAMA, M. - TANAKA, H. - MATSUMOTO, A. - HORII, S. - KAWAYAMA, I. - DOI, T. *Flexural properties of a MgB₂ thin-film wire. In JAPANESE JOURNAL OF APPLIED PHYSICS. ISSN 0021-4922, FEB 1 2023, vol. 62, no. 2. Dostupné na: <https://doi.org/10.35848/1347-4065/acb38f>, Registrované v: WOS*

ADCA259 KOVÁČ, Pavol - HUŠEK, Imrich - MELIŠEK, Tibor - ŠTRBÍK, Vladimír. Basic properties of rectangular MgB₂/FeNiCo and MgB₂/Fe wires made in situ. In Superconductor Science and Technology. - Bristol : IOP Publishing, 2005, vol. 18, p. 856-860. (2004: 1.556 - IF, karentované - CCC). (2005 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] MAEDA, M. - MATSUMOTO, A. - NISHIJIMA, G. - HEO, Y.U. - HAHN, S. - LEE, S. - CHOI, S. - KIM, J.H. *Performance of MgB₂ superconducting wire fabricated with non- identical Mg particles. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, SEP 5 2023, vol. 954. Dostupné na: <https://doi.org/10.1016/j.jallcom.2023.170148>, Registrované v: WOS*

ADCA260 KOVÁČ, Pavol - BUKVA, Peter. Differences in applied axial strain and I_c degradation of Bi(2223)/Ag tapes. In Superconductor Science and Technology. - Bristol : IOP Publishing, 2001, vol. 14, no. 1, p. L8-L11. (2000: 1.250 - IF, karentované - CCC). (2001 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] LIU, X. - SHI, Y. - LIU, F. - MA, H.J. - LIU, H.J. - ZHOU, C. - SONG, Y.T. - GAO, J. - ZHU, Y.C. - ZHANG, X.P. - WANG, D.L. - MA, Y.W. - ZHANG, Z. - WEI, S.Q. - QIN, J.G. *Critical current degradation behavior of 7-filamentary Ba_{1-x}K_xFe₂As₂ tapes under uniaxial strain. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, JAN 1 2023, vol. 36, no. 1. Dostupné na: <https://doi.org/10.1088/1361-6668/aca4a7>, Registrované v: WOS*

ADCA261 KOVÁČ, Pavol - HUŠEK, Imrich - MELIŠEK, Tibor - KAWANO, K. - ABELL, J.S. BSCCO/Ag tapes made by a tape-in-rectangular tube process. In Superconductor Science and Technology. - Bristol : IOP Publishing, 2001, vol. 14, no. 2, p. 139-144. (2000: 1.250 - IF, karentované - CCC). (2001 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] YAO, C. - GUO, W.W. - ZHU, Y.C. - LIU, X.Y. - HAN, M. - LIU, F. - LIU, H.J. - QIN, J.G. - ZHENG, J.X. - MA, Y.W. *Interface effects on the current transport properties of multi-layered (Ba, K)Fe₂As₂ superconducting wires. In JOURNAL OF MATERIALS CHEMISTRY C. ISSN 2050-7526, JAN 26 2023, vol. 11, no. 4, p. 1470-1482. Dostupné na: <https://doi.org/10.1039/d2tc04111a>, Registrované v: WOS*

ADCA262 KOVÁČ, Pavol - BALOG, Miroslav - HUŠEK, Imrich - KOPERA, Ľubomír - KRÍŽIK, Peter - ROSOVÁ, Alica - KOVÁČ, Ján - KULICH, Miloslav - ČAPLOVIČOVÁ, M. Properties of near- and sub-micrometre Al matrix composites strengthened with nano-scale in-situ Al₂O₃ aimed for low temperature applications. In Cryogenics, 2017, vol. 87, p. 58–65. (2016: 1.465 - IF, Q3 - JCR, 0.568 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0011-2275. Dostupné na: <https://doi.org/10.1016/j.cryogenics.2017.08.008>

Citácie:

1. [1.1] KOVACS, C.J. - BULLARD, T.J. - HAUGAN, T.J. - SUMPTION, M.D. *Cryogenic Electrical Properties of an Aluminum-Beryllium Nanocomposite. In*

IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na:

https://doi.org/10.1109/TASC.2023.3264201, Registrované v: WOS

ADCA263 KOVÁČ, Pavol - HUŠEK, Imrich - ROSOVÁ, Alica - KULICH, Miloslav - MELIŠEK, Tibor - KOPERA, Ľubomír - BRUNNER, Boris. Properties of MgB₂ wires made by internal magnesium diffusion into different boron powders. In Superconductor Science and Technology, 2015, vol. 28, 095014. (2014: 2.325 - IF, Q2 - JCR, 1.196 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/28/9/095014>

Citácie:

1. [1.1] SAVASKAN, B. - OZTURK, U.K. - GUNER, S.B. - ABDIOGLU, M. - BAHADIR, M.V. - ACAR, S. - SOMER, M. - IONESCU, A.M. - LOCOVEI, C. - ENCULESCU, M. - BADICA, P. Bulk MgB₂ superconductor for levitation applications fabricated with boron processed by different routes. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, OCT 25 2023, vol. 961.

Dostupné na: https://doi.org/10.1016/j.jallcom.2023.170893, Registrované v: WOS

ADCA264 KOVÁČ, Pavol - HUŠEK, Imrich - MELIŠEK, Tibor - KULICH, Miloslav - KOPERA, Ľubomír. Bending strain tolerance of a MgB₂ superconducting wires. In Superconductor Science and Technology, 2016, vol. 29, no. 045002. (2015: 2.717 - IF, Q1 - JCR, 1.130 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/29/4/045002>

Citácie:

1. [1.1] IWANAKA, T. - KUSUNOKI, T. - KOTAKI, H. - KODAMA, M. - TANAKA, H. - MATSUMOTO, A. - HORII, S. - KAWAYAMA, I. - DOI, T. Flexural properties of a MgB₂ thin-film wire. In JAPANESE JOURNAL OF APPLIED PHYSICS. ISSN 0021-4922, FEB 1 2023, vol. 62, no. 2. Dostupné na:

https://doi.org/10.35848/1347-4065/acb38f, Registrované v: WOS

ADCA265 KOVÁČ, Pavol - HUŠEK, Imrich - PACHLA, W. - KULCZYK, M. - MELIŠEK, Tibor - DVORÁK, Tomáš. As-deformed filament's density and transport currents of MgB₂/Ti/Gludcop wire. In Journal of Alloys and Compounds, 2011, vol. 509, p. 8783-8787. (2010: 2.138 - IF, Q1 - JCR, 1.073 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2011.06.071>

Citácie:

1. [1.1] HERBIROWO, S. - YUWONO, A.H. - SOFYAN, N. - IMADUDDIN, A. - PRAMONO, A.W. - SUPRIYADI, S. - MOHAMED, J.J. Development of Magnesium Diboride Superconducting Wires through Hot Working with Different Initial Filling Density. In INTERNATIONAL JOURNAL OF TECHNOLOGY. ISSN 2086-9614, DEC 7 2023, vol. 14, no. 7, p. 1570-1577. Dostupné na:

https://doi.org/10.14716/ijtech.v14i7.6695, Registrované v: WOS

ADCA266 KOVÁČ, Pavol - KULICH, Miloslav - HAESSLER, W. - HERMANN, M. - MELIŠEK, Tibor - REISSNER, M. Properties of MgB₂ wires made of oxidized powders. In Physica C, 2012, vol. 477, p. 20-23. (2011: 1.014 - IF, Q3 - JCR, 0.694 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 0921-4534. Dostupné na: <https://doi.org/10.1016/j.physc.2012.02.026>

Citácie:

1. [1.1] ZHANG, Z.L. - MACMANUS-DRISCOLL, J. - SUO, H.L. - WANG, Q.L. Review of synthesis of high volumetric density, low gravimetric density MgB₂ bulk for potential magnetic field applications. In SUPERCONDUCTIVITY. SEP 2022, vol. 3. Dostupné na: https://doi.org/10.1016/j.supcon.2022.100015, Registrované

- v: *WOS*
- ADCA267 KOVÁČ, Pavol** - KOVÁČ, Ján - PEREZ, N. - SCHEITER, J. - BÚRAN, Marek - KOPERA, Ľubomír - HUŠEK, Imrich - MELIŠEK, Tibor - BEREK, Dušan. Low-purity Cu and Al sheathed multi-core MgB₂ wires made by IMD process. In *Superconductor Science and Technology*, 2021, vol. 34, no. 075010. (2020: 3.219 - IF, Q2 - JCR, 1.033 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/abece7>
- Citácie:
1. [1.1] HE, L.J. - WANG, Q.Y. - YANG, F. - LEI, L. - FENG, J.Q. *Preparation of 6+1 Core IMD-MgB₂ Wires and Their Properties. In RARE METAL MATERIALS AND ENGINEERING. ISSN 1002-185X, NOV 2023, vol. 52, no. 11, p. 3801-3808. Dostupné na: <https://doi.org/10.12442/j.issn.1002-185X.20220824>, Registrované v: WOS*
- ADCA268 KOVÁČ, Pavol** - HUŠEK, Imrich - PEREZ, N. - ROSOVÁ, Alica - BEREK, Dušan - GELUŠIAKOVÁ, Bronislava - KOPERA, Ľubomír - MELIŠEK, Tibor - NIELSCH, K. Structure and properties of barrier-free MgB₂ composite wires made by internal magnesium diffusion process. In *Journal of Alloys and Compounds*, 2020, vol. 829, no. 154543. (2019: 4.650 - IF, Q1 - JCR, 0.736 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2020.154543> (VEGA 2/0140/19. APVV 18-0271)
- Citácie:
1. [1.1] HERBIROWO, S. - YUWONO, A.H. - SOFYAN, N. - IMADUDDIN, A. - PRAMONO, A.W. - SUPRIYADI, S. - MOHAMED, J.J. *Development of Magnesium Diboride Superconducting Wires through Hot Working with Different Initial Filling Density. In INTERNATIONAL JOURNAL OF TECHNOLOGY. ISSN 2086-9614, DEC 7 2023, vol. 14, no. 7, p. 1570-1577. Dostupné na: <https://doi.org/10.14716/ijtech.v14i7.6695>, Registrované v: WOS*
- ADCA269 KOVÁČ, Pavol** - HUŠEK, Imrich - HAIN, Miroslav - KOPERA, Ľubomír - MELIŠEK, Tibor - BEREK, Dušan. Longitudinal uniformity of MgB₂ wires made by an internal magnesium diffusion process. In *Superconductor Science and Technology*, 2021, vol. 34, no. 095007. (2020: 3.219 - IF, Q2 - JCR, 1.033 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ac191b>
- Citácie:
1. [1.1] HE, L.J. - WANG, Q.Y. - YANG, F. - LEI, L. - FENG, J.Q. *Preparation of 6+1 Core IMD-MgB₂ Wires and Their Properties. In RARE METAL MATERIALS AND ENGINEERING. ISSN 1002-185X, NOV 2023, vol. 52, no. 11, p. 3801-3808. Dostupné na: <https://doi.org/10.12442/j.issn.1002-185X.20220824>, Registrované v: WOS*
- ADCA270 KOVÁČ, Pavol** - MELIŠEK, Tibor - KOVÁČ, Ján - BÚRAN, Marek - HUŠEK, Imrich - RINDFLEISCH, M. - TOMSIC, M. DC characterization of advanced fine-filamentary MgB₂ superconducting wires. In *Superconductor Science and Technology*, 2022, vol. 35, no. 055004. (2021: 3.464 - IF, Q2 - JCR, 0.826 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ac4afe>
- Citácie:
1. [1.1] KALSI, S.S. - STOREY, J.G. - BROOKS, J.M. - LUMSDEN, G. - BADCOCK, R.A. *Superconducting Synchronous Motor Development for Airplane Applications-Mechanical and Electrical Design of a Prototype 100 kW Motor. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na:*

- <https://doi.org/10.1109/TASC.2023.3242629>, *Registrované v: WOS*
- ADCA271 KOVÁČ, Pavol** - KOPERA, Ľubomír - BEREK, Dušan - HAIN, Miroslav - MELIŠEK, Tibor - HUŠEK, Imrich - KOVÁČ, Ján - BŮRAN, Marek. High-current-density Rutherford MgB₂ cable sheathed by CuNi30 alloy. In *Superconductor Science and Technology*, 2022, vol. 35, no. 115003. (2021: 3.464 - IF, Q2 - JCR, 0.826 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ac8ad5> (APVV 18-0271)
- Citácie:
- [1.1] *GODEKE, A. High temperature superconductors for commercial magnets. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: https://doi.org/10.1088/1361-6668/acf901, Registrované v: WOS*
- ADCA272 KOVÁČOVÁ, Zuzana** - OROVČÍK, Ľubomír - SEDLÁČEK, Jaroslav - BAČA, Ľuboš - DOBROČKA, Edmund - KITZMANTEL, M. - NEUBAUER, Erich. The effect of YB₄ addition in ZrB₂-SiC composites on the mechanical properties and oxidation performance tested up to 2000 °C. In *Journal of the European Ceramic Society*, 2020, vol. 40, p. 3829-3843. (2019: 4.495 - IF, Q1 - JCR, 1.164 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0955-2219. Dostupné na: <https://doi.org/10.1016/j.jeurceramsoc.2020.03.060>
- Citácie:
- [1.1] *MENG, J.W. - FANG, H.Y. - WANG, H.Y. - WU, Y. - WEI, C.C. - LI, S. - GENG, X. - LI, X.W. - ZHANG, J.P. - WEN, G.W. - WANG, P. Effects of refractory metal additives on diboride-based ultra-high temperature ceramics: A review. In INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY. ISSN 1546-542X, MAY 2023, vol. 20, no. 3, p. 1350-1370. Dostupné na: https://doi.org/10.1111/ijac.14336, Registrované v: WOS*
 - [1.2] *Liu H., Hou, H., Yu, C., Man, Z., Dang, F., Xue, Y., Wu, Y.: Preparation and Mechanical Properties of Ultra-High Temperature Rare Earth Boride (Y_{1-x}Y_{bx})B₆. In Bulletin of the Chinese Ceramic Society Volume 42, Issue 1, Pages 276 - 286 15 January 2023, Registrované v: SCOPUS*
 - [1.2] *Shi, Y., Pan, Y., Gao, Y., Chi, P., Chen, S.: Research Progress on Rare Earth Modified Ultra-High Temperature Ceramics and Their Composites. In Bulletin of the Chinese Ceramic Society Volume 42, Issue 1, Pages 682 - 693 January 2023, Registrované v: SCOPUS*
- ADCA273 KOZAK, Andrii** - PRECNER, Marián - HUTÁR, Peter - BODIK, Michal - VÉGSÖ, Karol - HALAHOVETS, Yuriy - HULMAN, Martin - ŠIFFALOVÍČ, Peter - ĽAPAJNA, Milan. Angular dependence of nanofriction of mono- and few-layer MoSe₂. In *Applied Surface Science*, 2021, vol. 567, no. 150807. (2020: 6.707 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2021.150807>
- Citácie:
- [1.1] *ANDO, Yasuhisa - SHIINA, Yuto. Investigating the effect of interatomic distance on friction force through MEMS-AFM based experiment. In APPLIED SURFACE SCIENCE, 2023, vol. 637, no., pp. ISSN 0169-4332. Dostupné na: https://doi.org/10.1016/j.apsusc.2023.157991, Registrované v: WOS*
 - [1.1] *YU, Kang - XU, Peipei - PENG, Yitian - HUANG, Yao - LANG, Haojie - DING, Shuyang. Ultra-low friction and stiffness dependence of interlayer friction in graphite flakes under various rotation angles. In MATERIALS TODAY ADVANCES, 2023, vol. 18, no., pp. ISSN 2590-0498. Dostupné na: https://doi.org/10.1016/j.mtadv.2023.100380, Registrované v: WOS*
 - [1.1] *ZHU, C. T. - CHEN, F. - YAN, W. - WEI, Y. C. - XU, J. - CHEN, Y. P.*

Enhancing tribological properties of MoS₂/SnS₂/SnSe@C through 2D nanosheets modification of 3D structures. In CHALCOGENIDE LETTERS, 2023, vol. 20, no. 9, pp. 685-695. ISSN 1584-8663. Dostupné na: <https://doi.org/10.15251/CL.2023.209.685>, Registrované v: WOS

ADCA274

KOZAK, Andrii** - HOFBAUEROVÁ, Monika, Benkovičová - HALAHOVETS, Yuriy - PRIBUSOVÁ SLUŠNÁ, Lenka - PRECNER, Marián - MIČUŠÍK, Matej - OROVČÍK, Lubomír - HULMAN, Martin - STEPURA, Anastasiia - OMASTOVÁ, Mária - ŠIFFALOVÍČ, Peter - ŤAPAJNA, Milan**. Nanofriction properties of mono- and double-layer Ti₃C₂T_x MXenes. In ACS Applied Materials & Interfaces, 2022, vol. 14, no. 32, p. 36815-36824. (2021: 10.383 - IF, Q1 - JCR, 2.143 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsmi.2c08963> (APVV-17-0560 : Tribologické vlastnosti 2D materiálov a príbuzných nanokompozitov/. APVV-19-0465 : Hybridné nízkorozmerné vrstevnaté materiály s novými funkciami. APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou)

Citácie:

1. [1.1] GUO, J.L. - SHANG, Z.L. - SUN, Y. - LI, C.H. - XIA, J.Y. - ZOU, Y.X. - DU, K. - LIU, G.Q. - ZHOU, F. - LIU, W.M. Surface-modified Ti₃C₂T_x MXene as anti-wear and extreme pressure additive for PFPE supramolecular gel. In TRIBOLOGY INTERNATIONAL. ISSN 0301-679X, AUG 2023, vol. 186.

Dostupné na: <https://doi.org/10.1016/j.triboint.2023.108611>, Registrované v: WOS

2. [1.1] ROSENKRANZ, A. - RIGHI, M.C. - SUMANT, A.V. - ANASORI, B. - MOCHALIN, V.N. Perspectives of 2D MXene Tribology. In ADVANCED MATERIALS. ISSN 0935-9648, FEB 2023, vol. 35, no. 5. Dostupné na:

<https://doi.org/10.1002/adma.202207757>, Registrované v: WOS

3. [1.1] WAIT, James - JOSEPHSON, Graham - WYATT, Brian C. - ANASORI, Babak - COLAK, Arzu. Environmentally stable nanoscale superlubricity of multi-layered Ti₃C₂T_x MXene. In CARBON, 2023, vol. 213, no., pp. ISSN 0008-6223.

Dostupné na: <https://doi.org/10.1016/j.carbon.2023.118284>, Registrované v: WOS

4. [1.1] WANG, Junhai - KAN, Yu - YAN, Tingting - LIANG, Wenfeng - ZHANG, Lixiu - LI, Xinran - GAO, Siyang. Carbon Dots@Ti₃C₂T_x/subC_{sub2}/subT_{subix}/i /sub-MXene 0D/2D Hybrid Composites toward High-Performance Lubricating Additives under Varying Temperatures. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING, 2023, vol. 12, no. 1, pp. 96-110. ISSN 2168-0485. Dostupné na:

<https://doi.org/10.1021/acssuschemeng.3c04843>, Registrované v: WOS

5. [1.1] ZHANG, K.P. - TANG, H.T. - SHI, X.L. - XUE, Y.W. - HUANG, Q.P. Effect of Ti₃C₂ MXenes additive on the tribological properties of lithium grease at different temperatures. In WEAR. ISSN 0043-1648, AUG 15 2023, vol. 526.

Dostupné na: <https://doi.org/10.1016/j.wear.2023.204953>, Registrované v: WOS

6. [1.1] ZHANG, K.P. - WU, C.H. - SHI, X.L. - XUE, Y.W. - HUANG, Q.P.

Investigations of tribological performance of slewing bearing raceway with bionic textured composite surface under grease lubrication. In TRIBOLOGY INTERNATIONAL. ISSN 0301-679X, JUN 2023, vol. 184. Dostupné na:

<https://doi.org/10.1016/j.triboint.2023.108469>, Registrované v: WOS

ADCA275

KRČMÁR, Roman - GENDIAR, Andrej - UEDA, K. - NISHINO, T. Ising model on a hyperbolic lattice studied by the corner transfer matrix renormalization group method. In Journal of Physics A: Mathematical and Theoretical, 2008, vol. 41, no. 12, art. no. 125001, also arXiv:0712.0461 (December 2007. (2006: 1.577 - IF, 0.996 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents, SCOPUS). ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8113/41/12/125001>

Citácie:

1. [1.1] OKUNISHI, K. - TAKAYANAGI, T. *Statistical mechanics approach to the holographic renormalization group: Bethe lattice Ising model and p-adic AdS/CFT*. In *PROGRESS OF THEORETICAL AND EXPERIMENTAL PHYSICS*. ISSN 2050-3911, JAN 9 2023, vol. 2024, no. 1. Dostupné na:

<https://doi.org/10.1093/ptep/ptad156>, Registrované v: WOS

2. [1.1] PLACKE, B. - BREUCKMANN, N.P. *Random-bond Ising model and its dual in hyperbolic spaces*. In *PHYSICAL REVIEW E*. ISSN 2470-0045, FEB 16 2023, vol. 107, no. 2. Dostupné na:

<https://doi.org/10.1103/PhysRevE.107.024125>, Registrované v: WOS

3. [1.2] ASADUZZAMAN, Muhammad - CATTERALL, Simon - HUBISZ, Jay - NELSON, Roice - UNMUTH-YOCKEY, Judah. *Recent work on tessellations of hyperbolic geometries*. In *Proceedings of Science*, 2022-07-08, 396, pp., Registrované v: SCOPUS

ADCA276 KRČMÁR, Roman - IHARAGI, T. - GENDIAR, Andrej - NISHINO, T. Tricritical point of the J1-J2 ising model on a hyperbolic lattice. In *Physical Review E*, 2008, vol. 78, art. no. 061119. (2007: 2.483 - IF, Q1 - JCR, 1.615 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents, WOS, SCOPUS). ISSN 2470-0045.

Citácie:

1. [1.1] LUKIN, I.V. - SOTNIKOV, A.G. *Variational optimization of tensor-network states with the honeycomb-lattice corner transfer matrix*. In *PHYSICAL REVIEW B*. ISSN 2469-9950, FEB 21 2023, vol. 107, no. 5. Dostupné na:

<https://doi.org/10.1103/PhysRevB.107.054424>, Registrované v: WOS

ADCA277 KREMPASKÝ, Ludovít - SCHMIDT, C. Experimental verification of "supercurrents" in superconducting cables exposed to AC-fields. In *Cryogenics*, 1999, vol. 39, p. 23-33. (1998: 0.718 - IF, karentované - CCC). (1999 - Current Contents).

Citácie:

1. [1.1] BRESCHI, M. - CAVALLUCCI, L. - RIBANI, P.L. - GAUTHIER, F. *AC Loss Modeling of a Full-Size ITER CS Module*. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, MAR 2023, vol. 33, no. 2. Dostupné na: <https://doi.org/10.1109/TASC.2022.3229377>, Registrované v: WOS

ADCA278 KRUPA, Igor - CECEN, Volkan - BOUDENNE, Abderrahim - KRIŽANOVÁ, Zuzana - VÁVRA, Ivo - SRNÁNEK, Rudolf - RADNÓCZI, Gyorgy. Mechanical properties and morphology of composites based on the EVA copolymer filled with expanded graphite. In *Polymer - Plastics Technology and Engineering*, 2012, vol. 51, p. 1388-1393. (2011: 1.279 - IF, Q3 - JCR, 0.466 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0360-2559. Dostupné na: <https://doi.org/10.1080/03602559.2012.704114>

Citácie:

1. [1.2] SINGH, Abhishek - MUDULI, Chinmayee - SENANAYAK, Satyaprasad P. - GOSWAMI, Luna. *Graphite nanopowder incorporated xanthan gum scaffold for effective bone tissue regeneration purposes with improved biomineralization*. In *International Journal of Biological Macromolecules*, 2023-04-15, 234, pp. ISSN 01418130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2023.123724>, Registrované v: SCOPUS

ADCA279 KUČERA, Michal - NOVÁK, Jozef. Optical characterization of gallium antimonide highly doped with manganese. In *Journal of Physics and Chemistry of Solids*, 2006, vol. 67, p. 1724-1730. (2005: 1.410 - IF, Q2 - JCR, 0.761 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents).

Citácie:

1. [1.1] OVESHNIKOV, L.N. - GRANOVSKY, A.B. - DAVYDOV, A.B. -

- BOGACH, A.V. - KHARLAMOVA, A.M. - RIL', A.I. - ARONZON, B.A. Magnetic and magnetotransport properties of MnSb polycrystals near equatomic composition. In JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS. ISSN 0304-8853, DEC 1 2022, vol. 563. Dostupné na: <https://doi.org/10.1016/j.jmmm.2022.169873>, Registrované v: WOS*
- ADCA280 KÚDELA, Róbert - NOVÁK, Jozef - KUČERA, Michal. Zn-doped InGaP grown by the LP-MOCVD. In Journal of Electronics Materials, 1997, vol. 25, p. 7. (1996: 1.190 - IF, karentované - CCC). (1997 - Current Contents). ISSN 0361-5235.
Citácie:
1. [1.1] SODABANLU, H. - LI, G. - WATANABE, K. - NAKANO, Y. - SUGIYAMA, M. Improvement of InGaP solar cells grown with TBP in planetary MOVPE reactor. In SOLAR ENERGY MATERIALS AND SOLAR CELLS. ISSN 0927-0248, AUG 1 2023, vol. 257. Dostupné na: <https://doi.org/10.1016/j.solmat.2023.112402>, Registrované v: WOS
- ADCA281 KÚDELA, Róbert - ŠOLTÝS, Ján - KUČERA, Michal - STOKLAS, Roman - GUCMANN, Filip - BLAHO, Michal - MÍČUŠÍK, Matej - POHORELEC, Ondrej - GREGOR, M. - BRYTAVSKYI, E. - DOBROČKA, Edmund - GREGUŠOVÁ, Dagmar**. Technology and application of in-situ AlOx layers on III-V semiconductors. In Applied Surface Science, 2018, vol. 461, p. 33-38. (2017: 4.439 - IF, Q1 - JCR, 1.093 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2018.06.229> (VEGA 2/0109/17)
Citácie:
1. [1.1] SA, Z.X. - LIU, F.J. - ZHUANG, X.M. - YIN, Y.X. - LV, Z.T. - WANG, M.X. - ZHANG, J. - SONG, K.P. - CHEN, F. - YANG, Z.X. Toward High Bias-Stress Stability P-Type GaSb Nanowire Field-Effect-Transistor for Gate-Controlled Near-Infrared Photodetection and Photocommunication. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, SEP 2023, vol. 33, no. 38. Dostupné na: <https://doi.org/10.1002/adfm.202304064>, Registrované v: WOS
- ADCA282 KUCHARÍK, Marián - KORENKO, Michal - JANIČKOVIČ, Dušan - KADLEČÍKOVÁ, M. - BOČA, Miroslav - OBOŇA, Jozef Vincenc. Rapid solidification of cryolite and cryolite-alumina melts. In Monatshefte für Chemie, 2010, vol. 141, no. 1, p. 7-13. (2009: 1.312 - IF, Q2 - JCR, 0.479 - SJR, Q2 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0026-9247. Dostupné na: <https://doi.org/10.1007/s00706-009-0229-0>
Citácie:
1. [1.1] KIRIK, S.D. - SAMOILO, A.S. - ZAITSEVA, Y.N. - ZALOGA, A.N. - BEZRUKOVA, O.E. - DUBININ, P.S. - YAKIMOV, I.S. The quaternary fluoride LiNaCa2Al2F12 in aluminum electrolytes: synthesis, structure, thermal stability. In JOURNAL OF SOLID STATE CHEMISTRY. ISSN 0022-4596, MAR 2023, vol. 319. Dostupné na: <https://doi.org/10.1016/j.jssc.2022.123825>, Registrované v: WOS
- ADCA283 KUJOVIČ, Tomáš** - GÖMÖRY, Fedor. Impact of local geometrical irregularities on critical currents of REBCO tapes in round cables. In Superconductor Science and Technology, 2020, vol. 33, no. 115008. (2019: 3.067 - IF, Q2 - JCR, 0.991 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/abb441> (APVV 16-0418)
Citácie:
1. [1.1] PAN, Y.Z. - GAO, P.F. Analysis of mechanical behavior and electromechanical properties of REBCO-coated conductor tapes under combined bending-tension loads using numerical methods. In SUPERCONDUCTOR

- SCIENCE & TECHNOLOGY. ISSN 0953-2048, APR 1 2023, vol. 36, no. 4. Dostupné na: <https://doi.org/10.1088/1361-6668/acbac7>, Registrované v: WOS*
2. [1.1] PENG, X.B. - YONG, H.D. *Structural analysis of REBCO coated conductors and quasi-isotropic strands under bending using continuum shell element. In CRYOGENICS. ISSN 0011-2275, JUL 2023, vol. 133. Dostupné na: <https://doi.org/10.1016/j.cryogenics.2023.103701>, Registrované v: WOS*
- ADCA284 KUKLI, K. - KEMELI, M. - VEHKAMÄKI, M. - HEIKKILÄ, M.J. - MIZOHATA, K. - KALAM, K. - RITALA, M. - LESKELÄ, M. - KUNDRATA, Ivan - FRÖHLICH, Karol. Atomic layer deposition and properties of mixed Ta₂O₅ ZrO₂ films. In AIP Advances, 2017, vol. 7, no. 025001. (2016: 1.568 - IF, Q3 - JCR, 0.957 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 2158-3226. Dostupné na: <https://doi.org/10.1063/1.4975928>
- Citácie:
1. [1.1] HAN, C.C. - WANG, T. *Tantalum Pentoxide: From Crystal Structures to Applications in Water Splitting. In ENERGY & FUELS. ISSN 0887-0624, AUG 30 2023, vol. 37, no. 18, p. 13624-13644. Dostupné na: <https://doi.org/10.1021/acs.energyfuels.3c02295>, Registrované v: WOS*
2. [1.1] ISLAM, M.S. - LEE, J.H. - GANGULI, S. - ROY, A.K. *Effect of oxygen vacancy and Si doping on the electrical properties of Ta₂O₅ in memristor characteristics. In SCIENTIFIC REPORTS. ISSN 2045-2322, OCT 3 2023, vol. 13, no. 1. Dostupné na: <https://doi.org/10.1038/s41598-023-43888-z>, Registrované v: WOS*
3. [1.2] Al Amin, S.M., Gulshan, F., Zubair, M.A.: *Stabilisation of Cubic ZrO₂ Thin Films Synthesized by Spray Pyrolysis: Influence of Cu Doping on Structural and Optical Properties In 5th IEEE International Conference on Telecommunications and Photonics, ICTP 2023 - e-Proceedings, Registrované v: SCOPUS*
4. [1.2] Singh, E.R., Moirangthem, B., Singh, N.K.: *Study on Structural and Optical Properties of Ta₂O₅ Nanocluster In Springer Proceedings in Materials 25, (2023) pp. 97-102, Registrované v: SCOPUS*
- ADCA285 KULIFFAYOVÁ, Marta - KRAJČI, Ľudovít - JANOTKA, Ivan - ŠMATKO, Vasilij. Thermal behaviour and characterization of cement composites with burnt kaolin sand. In Journal of Thermal Analysis and Calorimetry, 2012, vol. 108, p. 425-432. (2011: 1.604 - IF, Q3 - JCR, 0.532 - SJR, Q2 - SJR). ISSN 1388-6150. Dostupné na: <https://doi.org/10.1007/s10973-011-1964-0>
- Citácie:
1. [1.1] HARA, H. - SHIRABE, Y. *Strength estimation method for arbitrary age of cement-treated soil based on high-temperature curing history. In SOILS AND FOUNDATIONS. ISSN 0038-0806, APR 2023, vol. 63, no. 2, art. no. 101295. Dostupné na: <https://doi.org/10.1016/j.sandf.2023.101295>, Registrované v: WOS*
2. [1.1] WEN, R.J. - TU, Y.M. - GUO, T. - YU, Q. - SHI, P. - JI, Y.H. - DAS, O. - FÖRSTH, M. - SAS, G. - ELFGREN, L. *Molecular dynamics study on coupled ion transport in aluminium-doped cement-based materials: effect of concentration. In ADVANCES IN CEMENT RESEARCH. ISSN 0951-7197, FEB 2023, vol. 35, no. 2, p. 81-95. Dostupné na: <https://doi.org/10.1680/jadcr.22.00028>, Registrované v: WOS*
- ADCA286 KULICH, Miloslav - KOVÁČ, Pavol - HAIN, Miroslav - ROSOVÁ, Alica - DOBROČKA, Edmund. High density and connectivity of a MgB₂ filament made using the internal magnesium diffusion technique. In Superconductor Science and Technology, 2016, vol. 29, art. no. 035004. (2015: 2.717 - IF, Q1 - JCR, 1.130 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/29/3/035004>

Citácie:

1. [1.1] OH, Y.S. - LEE, H.W. - CHUNG, K.C. - HWANG, D.Y. - KANG, S.H. - YOON, J.W. *Superconducting MgB₂ Wire Drawing Considering Anisotropic Hardening Behavior and Hydrostatic Effect*. In *METALS AND MATERIALS INTERNATIONAL*. ISSN 1598-9623, JUL 2022, vol. 28, no. 7, p. 1697-1710.

ADCA287 Dostupné na: <https://doi.org/10.1007/s12540-021-01023-5>, Registrované v: WOS
KUNDRATA, Ivan** - MOŠKOVÁ, Antónia - MOŠKO, Martin - MIČUŠÍK, Matej - DOBROČKA, Edmund - FRÖHLICH, Karol. Atomic layer deposition of lithium metaphosphate from H₃PO₄ and P₄O₁₀ facilitated via direct liquid injection: Experiment and theory. In *Journal of Vacuum Science and Technology A*, 2021, vol. 39, no. 062407. (2020: 2.427 - IF, Q3 - JCR, 0.583 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0734-2101. Dostupné na: <https://doi.org/10.1116/6.0001255>

Citácie:

1. [1.1] WEBER, M. - BOYSEN, N. - GRANIEL, O. - SEKKAT, A. - DUSSARRAT, C. - WIFF, P. - DEVI, A. - MUÑOZ-ROJAS, D. *Assessing the Environmental Impact of Atomic Layer Deposition (ALD) Processes and Pathways to Lower It*. In *ACS MATERIALS AU*. ISSN 2694-2461, APR 27 2023, vol. 3, no. 4, p. 274-298. Dostupné na: <https://doi.org/10.1021/acsmaterialsau.3c00002>, Registrované v: WOS

ADCA288 KUNDRATA, Ivan - BARR, M.K.S. - TYMEK, S. - DÖHLER, D. - HUDEC, Boris - BRÜNER, P. - VANKO, Gabriel - PRECNER, Marián - YOKOSAWA, T. - SPIECKER, E. - PLAKHOTNYUK, M. - FRÖHLICH, Karol - BACHMANN, J.**. Additive manufacturing in atomic layer processing mode. In *Small methods*, 2022, no. 2101546. (2021: 15.367 - IF, Q1 - JCR, 3.668 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2366-9608. Dostupné na: <https://doi.org/10.1002/smt.202101546>

Citácie:

1. [1.1] CHEN, M. - NIJBOER, M.P. - KOVALGIN, A.Y. - NIJMEIJER, A. - ROOZEBOOM, F. - LUITEN-OLIEMAN, M.W.J. *Atmospheric-pressure atomic layer deposition: recent applications and new emerging applications in high-porosity/3D materials*. In *DALTON TRANSACTIONS*. ISSN 1477-9226, AUG 1 2023, vol. 52, no. 30, p. 10254-10277. Dostupné na: <https://doi.org/10.1039/d3dt01204b>, Registrované v: WOS

ADCA289 KUNZO, Pavol - LOBOTKA, Peter - KOVÁČOVÁ, Eva - CHRISSTOPOULOU, K. - PAPOUTSAKIS, L. - ANASTASIADIS, S.H. - KRIŽANOVÁ, Zuzana - VÁVRA, Ivo. Nanocomposites of polyaniline and titania nanoparticles for gas sensors. In *Physica status solidi A. Applications and materials science*, 2013, vol. 210, p. 2341-2347. (2012: 1.469 - IF, Q2 - JCR, 0.866 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1862-6300. Dostupné na: <https://doi.org/10.1002/pssa.201329289>

Citácie:

1. [1.1] TSIZH, B. - AKSIMENTYEVA, O. - YULIA, H. - HOLYAKA, R. *Polymer composite nanostructures for selective gas sensors*. In *MOLECULAR CRYSTALS AND LIQUID CRYSTALS*. ISSN 1542-1406, DEC 12 2023, vol. 767, no. 1, p. 159-166. Dostupné na: <https://doi.org/10.1080/15421406.2023.2224982>, Registrované v: WOS

2. [1.2] KONUK EGE, Gözde - AKAY, Özge - YÜCE, Hüseyin. *A chemosensitive based ammonia gas sensor with PANI/PEO- ZnO nanofiber composites sensing layer*. In *Microelectronics International*, 2023-01-01, pp. ISSN 13565362. Dostupné na: <https://doi.org/10.1108/MI-09-2022-0161>, Registrované v: SCOPUS

ADCA290 KUZMA, A. - WEIS, M. - FLICKYNGEROVÁ, S. - JAKABOVIČ, J. - ŠATKA, A. - DOBROČKA, Edmund - CHLPÍK, J. - CIRÁK, J. - DONOVAL, M. - TELEK, P. - UHEREK, F. - DONOVAL, D. Influence of surface oxidation on plasmon resonance in monolayer of gold and silver nanoparticles. In *Journal of Applied Physics*, 2012, vol. 112, 103531. (2011: 2.168 - IF, Q2 - JCR, 1.374 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/1.4767688>

Citácie:

1. [1.1] JURKEVICIUTE, A. - DOLMANTAS, P. - VASILIAUSKAS, A. - TAMULEVICIENE, A. - MESKINIS, S. - POPLAUSKS, R. - PRIKULIS, J. - TAMULEVICIUS, S. - TAMULEVICIUS, T. Magnetron sputtering process for deposition of multilayered thin diamond-like carbon films with silver nanoparticles for anti-reflective coatings and refractometric sensing. In *MATERIALS CHEMISTRY AND PHYSICS*. ISSN 0254-0584, NOV 1 2023, vol. 309. Dostupné na: <https://doi.org/10.1016/j.matchemphys.2023.128425>, Registrované v: WOS
2. [1.1] KEAST, V.J. Atmospheric Corrosion of Silver and Silver Nanoparticles. In *CORROSION AND MATERIALS DEGRADATION*. JUN 2022, vol. 3, no. 2, p. 221-234. Dostupné na: <https://doi.org/10.3390/cmd3020013>, Registrované v: WOS
3. [1.1] MRAVLJAK, R. - PODGORNIK, A. Simple and Tailorable Synthesis of Silver Nanoplates in Gram Quantities. In *ACS OMEGA*. ISSN 2470-1343, JAN 17 2023, vol. 8, no. 2, p. 2760-2772. Dostupné na: <https://doi.org/10.1021/acsomega.2c07452>, Registrované v: WOS
4. [1.1] MURUGAN, R. - HWA, K.Y. - SANTHAN, A. 2D-Graphitic Carbon Nitride Nanosheet/Metal Nanocomposites for Electrochemical Sensors of Hydroquinone in Real Sample Analysis. In *ACS APPLIED NANO MATERIALS*. MAY 11 2023, vol. 6, no. 10, p. 8550-8563. Dostupné na: <https://doi.org/10.1021/acsanm.3c00877>, Registrované v: WOS
5. [1.1] SOLEYMANI, S. - SEYYEDMASOUMIAN, S. - ATTARIABAD, A. - SOLEYMANI, S. - BAYAT, F. - SABET, H. Controlling solar radiation forces with graphene in plasmonic metasurface. In *PHYSICA SCRIPTA*. ISSN 0031-8949, MAY 1 2023, vol. 98, no. 5. Dostupné na: <https://doi.org/10.1088/1402-4896/accd9e>, Registrované v: WOS

ADCA291 KUZMÍK, Ján - JAVORKA, P. - ALAM, A. - MARSO, M. - HEUKEN, M. - KORDOŠ, Peter. Determination of channel temperature in AlGaIn/GaN HEMTs grown on sapphire and silicon substrates using DC characterization method. In *IEEE Transactions on Electron Devices*, 2002, vol. 49, p. 1496-1498. ISSN 0018-9383.

Citácie:

1. [1.1] DU, C.L. - YE, R. - CAI, X.L. - DUAN, X.Y. - LIU, H.J. - ZHANG, Y. - QIU, G. - MI, M.H. A review on GaN HEMTs: nonlinear mechanisms and improvement methods. In *JOURNAL OF SEMICONDUCTORS*. ISSN 1674-4926, DEC 1 2023, vol. 44, no. 12. Dostupné na: <https://doi.org/10.1088/1674-4926/44/12/121801>, Registrované v: WOS
2. [1.1] FLOROVIC, M. - KOVÁČ, J. - CHVÁLA, A. - JACQUET, J.C. - DELAGE, S.L. Average Temperature Determination of AlGaIn/GaN HEMT Utilizing Pinch-Off Voltage Biasing. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. ISSN 0018-9383, NOV 2023, vol. 70, no. 11, p. 5803-5806. Dostupné na: <https://doi.org/10.1109/TED.2023.3317811>, Registrované v: WOS
3. [1.1] GONZÁLEZ, B. - LAZARO, A. - RODRÍGUEZ, R. Gate Geometry-Dependent Thermal Impedance of Depletion Mode HEMTs. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. ISSN 0018-9383, OCT 2023, vol.

70, no. 10, p. 5217-5222. Dostupné na:

<https://doi.org/10.1109/TED.2023.3305313>, Registrované v: WOS

4. [1.1] GONZÁLEZ, B. - NUNES, L.C. - GOMES, J.L. - MENDES, J.C. - JIMENEZ, J.L. A Simple Method to Extract the Thermal Resistance of GaN HEMTs From De-Trapping Characteristics. In *IEEE ELECTRON DEVICE LETTERS*. ISSN 0741-3106, JUN 2023, vol. 44, no. 6, p. 891-894. Dostupné na: <https://doi.org/10.1109/LED.2023.3265766>, Registrované v: WOS

5. [1.1] JUNG, D.H.Y. - KIM, M. - CHOI, U. - KIM, K. - NAM, O. Effects of Si-doped GaN insert layer in AlGaIn/GaN/GaN:Si/AlN DH-HEMT structure. In *SOLID-STATE ELECTRONICS*. ISSN 0038-1101, JAN 2023, vol. 199. Dostupné na: <https://doi.org/10.1016/j.sse.2022.108482>, Registrované v: WOS

6. [1.1] MOHANTY, S. - JIAN, Z. - KHAN, K. - AHMADI, E. Demonstration of N-Polar GaN MIS-HEMT with High-k Atomic Layer Deposited HfO₂ as Gate Dielectric. In *JOURNAL OF ELECTRONIC MATERIALS*. ISSN 0361-5235, APR 2023, vol. 52, no. 4, p. 2596-2602. Dostupné na: <https://doi.org/10.1007/s11664-023-10222-2>, Registrované v: WOS

7. [1.1] MURUGAPANDIYAN, P. - KALVA, S.R.K. - RAJYALAKSHMI, V. - PRINCY, B.A. - TARAUNI, Y.U. - FLETCHER, A. - WASIM, M. A comparative analysis of GaN and InGaIn/GaN coupling channel HEMTs on silicon carbide substrate for high linear RF applications. In *MICRO AND NANOSTRUCTURES*. MAY 2023, vol. 177. Dostupné na: <https://doi.org/10.1016/j.micrna.2023.207545>, Registrované v: WOS

8. [1.1] TADJER, M.J. - WALTEREIT, P. - KIRSTE, L. - MÜLLER, S. - LUNDH, J.S. - JACOBS, A.G. - KOEHLER, A.D. - KOMAROV, P. - RAAD, P. - GASKINS, J. - HOPKINS, P. - ODNOLYUDOV, V. - BASCERI, C. - ANDERSON, T.J. - HOBART, K.D. Effect of GaN/AlGaIn Buffer Thickness on the Electrothermal Performance of AlGaIn/GaN High Electron Mobility Transistors on Engineered Substrates. In *PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE*. ISSN 1862-6300, AUG 2023, vol. 220, no. 16, SI. Dostupné na: <https://doi.org/10.1002/pssa.202200828>, Registrované v: WOS

9. [1.1] ZAFAR, S. - DURNA, Y. - KOCER, H. - AKOGLU, B.C. - ARAS, Y.E. - ODABASI, O. - BUTUN, B. - OZBAY, E. Unveiling T_{max} Inside GaN HEMT Based X-Band Low-Noise Amplifier by Correlating Thermal Simulations and IR Thermographic Measurements. In *IEEE TRANSACTIONS ON DEVICE AND MATERIALS RELIABILITY*. ISSN 1530-4388, MAR 2023, vol. 23, no. 1, p. 72-79. Dostupné na: <https://doi.org/10.1109/TDMR.2022.3230646>, Registrované v: WOS

10. [1.1] ZHANG, Y.C. - DONG, Y.L. - CHEN, K. - DANG, K. - YAO, Y.X. - WANG, B.Q. - MA, J.B. - LIU, W.J. - WANG, X. - ZHANG, J.C. - HAO, Y. High-performance gallium nitride high-electron-mobility transistors with a thin channel and an AlN back barrier. In *APPLIED PHYSICS LETTERS*. ISSN 0003-6951, APR 3 2023, vol. 122, no. 14. Dostupné na: <https://doi.org/10.1063/5.0134633>, Registrované v: WOS

ADCA292

KUZMÍK, Ján. InAlN/(In)GaIn high electron mobility transistors some aspects of the quantum well heterostructure proposal. In *Semiconductor Science and Technology*. - Bristol : Institute of Physics, 2002, vol. 17, p. 540-544. ISSN 0268-1242.

Citácie:

1. [1.1] NARANG, K. - BAG, R.K. - PANDEY, A. - GOYAL, A. - SINGH, V.K. - LOHANI, J. - YADAV, B.S. - SAINI, S. - BHARTI, P. - DALAL, S. - PADMAVATI, M.V.G. - TYAGI, R. - SINGH, R. Structural, electrical, morphological, and interfacial characteristics of lattice-matched InAlN/GaN HEMT structure on SiC substrate. In *JOURNAL OF APPLIED PHYSICS*. ISSN 0021-8979, OCT 14 2023, vol. 134, no. 14. Dostupné na: <https://doi.org/10.1063/5.0141724>, Registrované v:

WOS

ADCA293

KUZMÍK, Ján - KONSTANTINIDIS, G. - HARASEK, S. - HAŠČÍK, Štefan - BERTAGNOLLI, E. - GEORGAKILAS, A. - POGANY, D.. ZrO₂/(Al)GaN metal-oxide-semiconductor structures characterization and application. In *Semiconductor Science and Technology*, 2004, vol. 19, p. 1364-1368. ISSN 0268-1242.

Citácie:

1. [1.1] HEBALI, K. - BOUGUENNA, D. - BELOUFA, A. - LOAN, S.A.

Performance Analysis of GaN/AlGaN/AlN/GaN MIS-MODFETs with High-κ as Gate Dielectric Insulator Layer. In TRANSACTIONS ON ELECTRICAL AND ELECTRONIC MATERIALS. ISSN 1229-7607, JUN 2023, vol. 24, no. 3, p. 250-257. Dostupné na: <https://doi.org/10.1007/s42341-023-00442-y>, Registrované v: WOS

2. [1.1] MANJUNATH, V. - UPPALA, C. - BOMMIREDDY, P.R. - SON, B. - KIM, H. - AHN, C.H. - PARK, S.H. Rapid thermal annealing influences on microstructure and electrical properties of Mo/ZrO₂/n-Si/Al MISM junction with a high-k ZrO₂ insulating layer. In *PHYSICA B-CONDENSED MATTER. ISSN 0921-4526, JAN 1 2023, vol. 648. Dostupné na:*

<https://doi.org/10.1016/j.physb.2022.414423>, Registrované v: WOS

3. [1.1] QIU, S.Y. - GONG, J.R. - ZHOU, J. - NG, T.K. - SINGH, R. - SHEIKHI, M. - OOI, B.S. - MA, Z.Q. Interfacial band parameters of ultrathin ALD-ZrO₂ on Ga-polar GaN through XPS measurements. In *AIP ADVANCES. MAY 1 2023, vol. 13, no. 5. Dostupné na: <https://doi.org/10.1063/5.0145286>, Registrované v: WOS*

ADCA294

KUZMÍK, Ján - POGANY, D. - GORNIK, E. - JAVORKA, P. - KORDOŠ, Peter. Electrostatic discharge effects in AlGaN/GaN high-electron-mobility transistors. In *Applied Physics Letters. - American Institute of Physics, 2003, vol. 83, p. 4655-4657. (2003 - Current Contents, SCOPUS). ISSN 0003-6951.*

Citácie:

1. [1.1] MUNSHI, M.A. - MIR, M.A. - MALIK, R. - JOSHI, V. - CHAUDHURI, R.R. - KHAN, Z. - SHRIVASTAVA, M. Understanding Temperature Dependence of ESD Reliability in AlGaN/GaN HEMTs. In *2023 45TH ANNUAL EOS/ESD SYMPOSIUM, EOS/ESD. ISSN 0739-5159, 2023. Dostupné na:*

<https://doi.org/10.23919/EOS/ESD58195.2023.10287745>, Registrované v: WOS

2. [1.1] SANDUPATLA, A. - CHEN, S.H. - MANE, N. - PARVAIS, B. - YU, H. - PRADHAN, N. - COLLAERT, N. Solutions To Improve HBM ESD Robustness of GaN RF HEMTs. In *2023 45TH ANNUAL EOS/ESD SYMPOSIUM, EOS/ESD. ISSN 0739-5159, 2023. Dostupné na:*

<https://doi.org/10.23919/EOS/ESD58195.2023.10287752>, Registrované v: WOS

3. [1.1] SHI, Y.J. - HE, Z.Y. - HUANG, Y. - CAI, Z.Q. - CHEN, Y.Q. - CHENG, L.Y. - CHEN, W.J. - SUN, R.Z. - LIU, C. - LU, G.G. - ZHANG, B. A Comparative Study on G-to-S ESD Robustness of the Ohmic-Gate and Schottky-Gate p-GaN HEMTs. In *IEEE TRANSACTIONS ON ELECTRON DEVICES. ISSN 0018-9383, MAY 2023, vol. 70, no. 5, p. 2229-2234. Dostupné na:*

<https://doi.org/10.1109/TED.2023.3257282>, Registrované v: WOS

4. [1.2] JI, Qizheng - LIU, Shanghe - WANG, Zhihao - YANG, Ming - DING, Yigang - WANG, Sizhan - SHEN, Zicai - LIU, Yuming. Comprehensive Proton Irradiation and Electric Field Testing System and Method for GaN Devices. In *Binggong Xuebao/Acta Armamentarii, 2023-06-01, 44, 6, pp. 1704-1712. ISSN 10001093. Dostupné na: <https://doi.org/10.12382/bgxb.2022.1115>, Registrované v: SCOPUS*

ADCA295

KUZMÍK, Ján - BYCHIKHIN, S. - POGANY, D. - GAQUIERE, C. - PICHONAT, E. - MORVAN, E. Investigation of the thermal boundary resistance at the III-

Nitride/substrate interface using optical methods. In *Journal of Applied Physics*. - New York : American Institute of Physics, 2007, vol. 101, no. 054508. (2006: 2.316 - IF, Q1 - JCR, 1.944 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents, SCOPUS). ISSN 0021-8979.

Citácie:

1. [1.1] DOWNEY, B.P. - MACK, S. - XIE, A. - KATZER, D.S. - LANG, A.C. - CHAMPLAIN, J.G. - CAO, Y. - NEPAL, N. - GROWDEN, T.A. - GOKHALE, V.J. - HARDY, M.T. - BEAM, E. - LEE, C. - MEYER, D.J. *Micro-Transfer Printing for Heterogeneous Integration of GaN and GaAs HEMTs*. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. ISSN 0018-9383, JUN 2023, vol. 70, no. 6, SI, p. 2994-3000. Dostupné na: <https://doi.org/10.1109/TED.2023.3269006>,

Registrované v: WOS

2. [1.1] FENG, T.L. - ZHOU, H. - CHENG, Z. - LARKIN, L.S. - NEUPANE, M.R. *A Critical Review of Thermal Boundary Conductance across Wide and Ultrawide Bandgap Semiconductor Interfaces*. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, JUN 16 2023, vol. 15, no. 25, p. 29655-29673. Dostupné na: <https://doi.org/10.1021/acsami.3c02507>, Registrované v: WOS

3. [1.1] ZHAN, T.Z. - XU, M. - CAO, Z. - ZHENG, C. - KURITA, H. - NARITA, F. - WU, Y.J. - XU, Y.B. - WANG, H.D. - SONG, M.J. - WANG, W. - ZHOU, Y.G. - LIU, X.Q. - SHI, Y. - JIA, Y. - GUAN, S.J. - HANAJIRI, T. - MAEKAWA, T. - OKINO, A. - WATANABE, T. *Effects of Thermal Boundary Resistance on Thermal Management of Gallium-Nitride-Based Semiconductor Devices: A Review*. In *MICROMACHINES*. NOV 2023, vol. 14, no. 11. Dostupné na: <https://doi.org/10.3390/mi14112076>, Registrované v: WOS

ADCA296

KUZMÍK, Ján - KOSTOPOULOS, T. - KONSTANTINIDIS, G. - CARLIN, J.-F. - GEORGAKILAS, A. - POGANY, D. *InAlN/GaN HEMTs: A first insight into technological optimization*. In *IEEE Transactions on Electron Devices*, 2006, vol. 53, p. 422-426. (2005: 2.105 - IF, Q1 - JCR, 1.738 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0018-9383.

Citácie:

1. [1.1] CHARAN, V.S. - VENUGOPALARAO, A. - VURA, S. - MURALIDHARAN, R. - RAGHAVAN, S. - NATH, D.N. *TMAH Pretreatment to Minimize Ohmic Contact Resistance in InAlN/GaN-on-Si RF HEMTs*. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. ISSN 0018-9383, NOV 2023, vol. 70, no. 11, p. 5609-5613. Dostupné na: <https://doi.org/10.1109/TED.2023.3319311>, Registrované v: WOS

2. [1.1] EISNER, S.R. - SENESKY, D.G. *Temperature and field dependencies of current leakage mechanisms in IrOx contacts on InAlN/GaN heterostructures*. In *APPLIED PHYSICS LETTERS*. ISSN 0003-6951, OCT 9 2023, vol. 123, no. 15. Dostupné na: <https://doi.org/10.1063/5.0171204>, Registrované v: WOS

3. [1.1] MIYOSHI, M. - FUJISAWA, T. - NAKABAYASHI, T. - EGAWA, T. - TAKEUCHI, T. - OKADA, N. - TADATOMO, K. *Growth and Microstructure Analyses of Semipolar AlInN Epitaxial Layers on a Fully Relaxed Semipolar $\{11\bar{2}0\}$ GaInN/GaN/m-plane Sapphire Template*. In *PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS*. ISSN 0370-1972, AUG 2023, vol. 260, no. 8. Dostupné na: <https://doi.org/10.1002/pssb.202200492>, Registrované v: WOS

4. [1.1] VERMA, Y.K. - GUPTA, S.K. *A physics-based analytical model for ZnO based HEMT*. In *MICRO AND NANOSTRUCTURES*. DEC 2023, vol. 184. Dostupné na: <https://doi.org/10.1016/j.micrna.2023.207675>, Registrované v: WOS

5. [1.1] WU, N.T. - XING, Z.H. - LI, S.J. - LUO, L. - ZENG, F.Y. - LI, G.Q. *GaN-*

- based power high-electron-mobility transistors on Si substrates: from materials to devices. In SEMICONDUCTOR SCIENCE AND TECHNOLOGY. ISSN 0268-1242, JUN 1 2023, vol. 38, no. 6. Dostupné na: <https://doi.org/10.1088/1361-6641/acca9d>, Registrované v: WOS*
6. [1.1] YU, L.Y. - HU, J.H. - MA, Y.C. - ZHAO, L.X. *Electron beam irradiation effects on GaN/InGaN multiple quantum well structures. In SEMICONDUCTOR SCIENCE AND TECHNOLOGY. ISSN 0268-1242, OCT 1 2023, vol. 38, no. 10. Dostupné na: <https://doi.org/10.1088/1361-6641/acec65>, Registrované v: WOS*
- ADCA297 KUZMÍK, Ján - CARLIN, J.-F. - GONSCHOREK, M. - KOSTOPOULOS, A. - KONSTANTINIDIS, G. - POZZOVIVO, G. - GOLKA, S. - GEORGAKILAS, A. - GRANDJEAN, N. - STRASSER, G. - POGANY, D. Gate-lag and drain-lag effects in (GaN)/InAlN/GaN and InAlN/AlN/GaN HEMTs. In *Physica status solidi A. Applications and materials science*, 2007, vol. 204, p. 2019-2022. (2006: 1.221 - IF, 0.846 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents, SCOPUS). ISSN 1862-6300.
- Citácie:
1. [1.1] MILLER, N.C. - GRUPEN, M. - ISLAM, A.E. - ALBRECHT, J.D. - FREY, D. - YOUNG, R. - LINDQUIST, M. - GREEN, A.J. - WALKER, D. - CHABAK, K.D. *Experimentally Validated Gate-Lag Simulations of AlGaIn/GaN HEMTs Using Fermi Kinetics Transport. In IEEE TRANSACTIONS ON ELECTRON DEVICES. ISSN 0018-9383, FEB 2023, vol. 70, no. 2, p. 435-442. Dostupné na: <https://doi.org/10.1109/TED.2022.3229291>, Registrované v: WOS*
- ADCA298 KUZMÍK, Ján - BYCHIKHIN, S. - NEUBURGER, M. - DADGAR, A. - KROST, A. - KOHN, E. - POGANY, D. Transient thermal characterization of AlGaIn/GaN HEMTs grown on silicon. In *IEEE Transactions on Electron Devices*, 2005, vol. 52, p. 1698-1705. ISSN 0018-9383.
- Citácie:
1. [1.1] PIROSCA, A.V. - VECCHIO, M. - RIZZO, S.A. - IANNUZZO, F. *Evaluation of the Thermal Resistance in GaN HEMTs Using Thermo-Sensitive Electrical Parameters. In ENERGIES. MAR 2023, vol. 16, no. 6. Dostupné na: <https://doi.org/10.3390/en16062779>, Registrované v: WOS*
2. [1.1] ZHAN, T.Z. - XU, M. - CAO, Z. - ZHENG, C. - KURITA, H. - NARITA, F. - WU, Y.J. - XU, Y.B. - WANG, H.D. - SONG, M.J. - WANG, W. - ZHOU, Y.G. - LIU, X.Q. - SHI, Y. - JIA, Y. - GUAN, S.J. - HANAJIRI, T. - MAEKAWA, T. - OKINO, A. - WATANABE, T. *Effects of Thermal Boundary Resistance on Thermal Management of Gallium-Nitride-Based Semiconductor Devices: A Review. In MICROMACHINES. NOV 2023, vol. 14, no. 11. Dostupné na: <https://doi.org/10.3390/mi14112076>, Registrované v: WOS*
- ADCA299 KUZMÍK, Ján - POZZOVIVO, G. - ABERMANN, S. - CARLIN, J.-F. - GONSCHOREK, M. - FELTIN, E. - GRANDJEAN, N. - BERTAGNOLLI, E. - STRASSER, G. - POGANY, D. Technology and performance of InAlN/AlN/GaN HEMTs with gate insulation and current collapse suppression using ZrO₂ or HfO₂. In *IEEE Transactions on Electron Devices*, 2008, vol. 55, p. 937-941. (2007: 2.165 - IF, Q1 - JCR, 1.898 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0018-9383.
- Citácie:
1. [1.1] CHOI, J.H. - KANG, W.S. - KIM, D. - KIM, J.H. - LEE, J.H. - KIM, K.Y. - MIN, B.G. - KANG, D.M. - KIM, H.S. *Enhanced Operational Characteristics Attained by Applying HfO₂ as Passivation in AlGaIn/GaN High-Electron-Mobility Transistors: A Simulation Study. In MICROMACHINES. JUN 2023, vol. 14, no. 6. Dostupné na: <https://doi.org/10.3390/mi14061101>, Registrované v: WOS*
- ADCA300 KUZMÍK, Ján - LALINSKÝ, Tibor - MOZOLOVÁ, Želmíra - PORGES, Marcel.

DC performance of short ion-implanted GaAsMESFETs, the role of gate length shortening. In Solid State Electronics, 1990, vol. 33, p. 1223.

Citácie:

1. [1.1] LUO, S.T. - LIU, X.Y. - JIANG, X.F. Study on the Point-Contact Gate AlGaN/GaN High Electron Mobility Transistor with 0.1 μm Gate Length. In PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE. ISSN 1862-6300, JUL 2023, vol. 220, no. 14. Dostupné na:

<https://doi.org/10.1002/pssa.202300185>, Registrované v: WOS

ADCA301

KUZMÍK, Ján - OSTERMAIER, C. - POZZOVIVO, G. - BASNAR, B. - SCHRENK, W. - CARLIN, J.-F. - GONSCHOREK, M. - FELTIN, E. - GRANDJEAN, N. - DOUVRY, Y. - GAQUIERE, C. - DE JAEGER, J.-C. - ČIČO, Karol - FRÖHLICH, Karol - ŠKRINIAROVÁ, Jaroslava - KOVÁČ, Ján - STRASSER, G. - POGANY, D. - GORNIK, E. Proposal and performance analysis of normally-off n⁺⁺ GaN/InAlN/AlN/GaN HEMTs with 1 nm thick InAlN barrier. In IEEE Transactions on Electron Devices, 2010, vol. 57, p. 2144-2154. (2009: 2.445 - IF, 1.768 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0018-9383. Dostupné na: <https://doi.org/10.1109/TED.2010.2055292>

Citácie:

1. [1.1] YANG, L.Y. - HUANG, W. - WANG, D. - ZHANG, B.Q. - ZHANG, Y.B. - ZHANG, J.Y. - CHEN, T.S. - GE, W.K. - WU, S.B. - SHEN, B. - WANG, X.Q. AlN/GaN HEMTs with f_{max} Exceeding 300 GHz by Using Ge-Doped n⁺⁺ GaN Ohmic Contacts. In ACS APPLIED ELECTRONIC MATERIALS. SEP 11 2023, vol. 5, no. 9, p. 4786-4791. Dostupné na:

<https://doi.org/10.1021/acsaelm.3c00555>, Registrované v: WOS

ADCA302

KUZMÍK, Ján - POZZOVIVO, G. - OSTERMAIER, C. - STRASSER, G. - POGANY, D. - GORNIK, E. - CARLIN, J.-F. - GONSCHOREK, M. - FELTIN, E. - GRANDJEAN, N. Analysis of degradation mechanisms in lattice-matched InAlN/GaN high-electron-mobility transistors. In Journal of Applied Physics, 2009, vol. 106, 124503. (2008: 2.201 - IF, Q1 - JCR, 1.644 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 0021-8979.

Citácie:

1. [1.1] ZHANG, C. - YAO, R.H. An enhancement-mode AlInN/GaN HEMTs combining intrinsic GaN cap layer and AlGaIn back barrier layer. In SOLID STATE COMMUNICATIONS. ISSN 0038-1098, JUN 1 2023, vol. 366. Dostupné na: <https://doi.org/10.1016/j.ssc.2023.115150>, Registrované v: WOS

ADCA303

KUZMÍK, Ján. Power electronics on InAlN/(In)GaIn: prospect for a record performance. In IEEE Electron Devices Letters, 2001, vol. 22, p. 510-512. (2001 - Current Contents). ISSN 0741-3106. Dostupné na: <https://doi.org/10.1109/55.962646>

Citácie:

1. [1.1] EISNER, S.R. - SENESKY, D.G. Temperature and field dependencies of current leakage mechanisms in IrOx contacts on InAlN/GaN heterostructures. In APPLIED PHYSICS LETTERS. ISSN 0003-6951, OCT 9 2023, vol. 123, no. 15. Dostupné na: <https://doi.org/10.1063/5.0171204>, Registrované v: WOS

2. [1.1] ELIAS, C. - NEMOZ, M. - ROTELLA, H. - GEORGI, F. - VEZIAN, S. - HUGUES, M. - CORDIER, Y. Influence of the temperature on growth by ammonia source molecular beam epitaxy of wurtzite phase ScAlN alloy on GaN. In APL MATERIALS. ISSN 2166-532X, MAR 1 2023, vol. 11, no. 3. Dostupné na: <https://doi.org/10.1063/5.0139588>, Registrované v: WOS

3. [1.1] GUO, J.S. - ZHU, J.J. - LIU, S.Y. - LIU, J.L. - XU, J.H. - CHEN, W.W. - ZHOU, Y.W. - ZHAO, X. - MI, M.H. - YANG, M. - MA, X.H. - HAO, Y. Low-resistance ohmic contacts on InAlN/GaN heterostructures with MOCVD-regrown

- n*⁺-InGaN and mask-free regrowth process. In CHINESE PHYSICS B. ISSN 1674-1056, MAR 1 2023, vol. 32, no. 3. Dostupné na: <https://doi.org/10.1088/1674-1056/ac891b>, Registrované v: WOS
4. [1.1] LUO, Y.L. - HATAKEYAMA, Y. - AKAZAWA, M. Effects of low-temperature annealing on net doping profile of Mg-ion-implanted GaN studied by MOS capacitance-voltage measurement. In JAPANESE JOURNAL OF APPLIED PHYSICS. ISSN 0021-4922, DEC 1 2023, vol. 62, no. 12. Dostupné na: <https://doi.org/10.35848/1347-4065/ad0272>, Registrované v: WOS
5. [1.1] NARANG, K. - BAG, R.K. - PANDEY, A. - GOYAL, A. - SINGH, V.K. - LOHANI, J. - YADAV, B.S. - SAINI, S. - BHARTI, P. - DALAL, S. - PADMAVATI, M.V.G. - TYAGI, R. - SINGH, R. Structural, electrical, morphological, and interfacial characteristics of lattice-matched InAlN/GaN HEMT structure on SiC substrate. In JOURNAL OF APPLIED PHYSICS. ISSN 0021-8979, OCT 14 2023, vol. 134, no. 14. Dostupné na: <https://doi.org/10.1063/5.0141724>, Registrované v: WOS
6. [1.1] NDIAYE, S. - ELIAS, C. - DIAGNE, A. - ROTELLA, H. - GEORGI, F. - HUGUES, M. - CORDIER, Y. - VURPILLOT, F. - RIGUTTI, L. Alloy distribution and compositional metrology of epitaxial ScAlN by atom probe tomography. In APPLIED PHYSICS LETTERS. ISSN 0003-6951, OCT 16 2023, vol. 123, no. 16. Dostupné na: <https://doi.org/10.1063/5.0167855>, Registrované v: WOS
7. [1.1] OCHI, R. - TOGASHI, T. - OSAWA, Y. - HORIKIRI, F. - FUJIKURA, H. - FUJIKAWA, K. - FURUYA, T. - ISONO, R. - AKAZAWA, M. - SATO, T. Investigation of dominance in near-surface region on electrical properties of AlGaIn/GaN heterostructures using TLM, XPS, and PEC etching techniques. In APPLIED PHYSICS EXPRESS. ISSN 1882-0778, SEP 1 2023, vol. 16, no. 9. Dostupné na: <https://doi.org/10.35848/1882-0786/acf644>, Registrované v: WOS
8. [1.1] UEDONO, A. - KIMURA, Y. - HOSHII, T. - KAKUSHIMA, K. - SUMIYA, M. - TSUKUI, M. - MIYANO, K. - MIZUSHIMA, I. - YODA, T. - TSUTSUI, K. Vacancy-type defects in AlInN/AlN/GaN structures probed by monoenergetic positron beam. In JOURNAL OF APPLIED PHYSICS. ISSN 0021-8979, JUN 14 2023, vol. 133, no. 22. Dostupné na: <https://doi.org/10.1063/5.0153128>, Registrované v: WOS
9. [1.2] SINGH, Vikash K. - NARANG, Kapil - PANDEY, Akhilesh K. - SAINI, Sachin K. - LOHANI, Jaya - BAG, Rajesh K. - PADMAVATI, M. V.G. - TYAGI, Renu. Effect of Substrate and Growth Parameters on the InAlN Barrier Layer in InAlN/AlN/GaN HEMT Structure Grown by MOVPE. In AIP Conference Proceedings, 2023-12-15, 2901, 1, pp. ISSN 0094243X. Dostupné na: <https://doi.org/10.1063/5.0179509>, Registrované v: SCOPUS
10. [1.2] TAKEUCHI, Katsuhiko - SARUTA, Kunihiko - MORITA, Shinya - MATSUMOTO, Katsuji - YANAGITA, Masashi - TANIGUCHI, Satoshi - WADA, Shinichi - TASAI, Kunihiko - SHIMADA, Masayuki - YANASHIMA, Katsunori. Low-Voltage Operation AlInN/GaN HEMTs on Si with High Output Power at sub-6 GHz. In IEEE MTT-S International Microwave Symposium Digest, 2023-01-01, 2023-June, pp. 28-31. ISSN 0149645X. Dostupné na: <https://doi.org/10.1109/IMS37964.2023.10188112>, Registrované v: SCOPUS
- ADCA304 KUZMÍK, Ján - GEORGAKILAS, A. Proposal of high-electron mobility transistors with strained InN channel. In IEEE Transactions on Electron Devices, 2011, vol. 58, p. 720. (2010: 2.267 - IF, Q1 - JCR, 1.639 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0018-9383. Dostupné na: <https://doi.org/10.1088/0268-1242/29/3/035015>

Citácie:

1. [1.1] PEDERSEN, H. - HSU, C.W. - NEPAL, N. - WOODWARD, J.M. - EDDY,

C.R. Atomic Layer Deposition as the Enabler for the Metastable Semiconductor InN and Its Alloys. In CRYSTAL GROWTH & DESIGN. ISSN 1528-7483, SEP 19 2023, vol. 23, no. 10, p. 7010-7025. Dostupné na:

https://doi.org/10.1021/acs.cgd.3c00775, Registrované v: WOS

ADCA305

KUZMÍK, Ján - BYCHIKHIN, S. - POGANY, D. - PICHONAT, E. - LANCRY, O. - GAQUIERE, C. - TSIAKATOURAS, G. - DELIGEORGIS, G. - GEORGAKILAS, A. Thermal characterization of MBE-grown GaN/AlGaIn/GaN device on single crystalline diamond. In *Journal of Applied Physics*, 2011, vol. 109, no. 086106. (2010: 2.079 - IF, Q2 - JCR, 1.484 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/1.3581032>

Citácie:

1. [1.1] FENG, T.L. - ZHOU, H. - CHENG, Z. - LARKIN, L.S. - NEUPANE, M.R. *A Critical Review of Thermal Boundary Conductance across Wide and Ultrawide Bandgap Semiconductor Interfaces. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, JUN 16 2023, vol. 15, no. 25, p. 29655-29673. Dostupné na: https://doi.org/10.1021/acsami.3c02507, Registrované v: WOS*

2. [1.1] PRAJAPAT, P. - SINGH, D.K. - GUPTA, G. *Growth of III-nitrides by molecular beam epitaxy: Unconventional substrates for conventional semiconductors. In MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS. ISSN 0921-5107, SEP 2023, vol. 295. Dostupné na: https://doi.org/10.1016/j.mseb.2023.116574, Registrované v: WOS*

3. [1.1] SANG, L. *Diamond as the heat spreader for the thermal dissipation of GaN-based electronic devices. In FUNCTIONAL DIAMOND. ISSN 2694-1112, JAN 14 2022, vol. 1, no. 1, p. 174-188. Dostupné na: https://doi.org/10.1080/26941112.2021.1980356, Registrované v: WOS*

4. [1.1] TANG, D.S. - CAO, B.Y. *Phonon thermal transport and its tunability in GaN for near-junction thermal management of electronics: A review. In INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER. ISSN 0017-9310, JAN 2023, vol. 200. Dostupné na: https://doi.org/10.1016/j.ijheatmasstransfer.2022.123497, Registrované v: WOS*

ADCA306

KUZMÍK, Ján - ĽAPAJNA, Milan - VÁLIK, Lukáš - MOLNÁR, M. - DONOVAL, D. - FLEURY, C. - POGANY, D. - STRASSER, G. - HILT, O. - BRUNNER, F. - WÜRFL, H.-J. Self-heating in GaN transistors designed for high-power operation. In *IEEE Transactions on Electron Devices*, 2014, vol. 61, p. 3429-3434. (2013: 2.358 - IF, Q1 - JCR, 1.411 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0018-9383. Dostupné na: <https://doi.org/10.1109/TED.2014.2350516>

Citácie:

1. [1.1] ABDULLAH, M.F. - HUSSIN, M.R.M. - ISMAIL, M.A. - SABLİ, S.K.W. *Chip-level thermal management in GaN HEMT: Critical review on recent patents and inventions. In MICROELECTRONIC ENGINEERING. ISSN 0167-9317, MAR 15 2023, vol. 273. Dostupné na: https://doi.org/10.1016/j.mee.2023.111958, Registrované v: WOS*

2. [1.1] GAO, Y. - XU, S.R. - TAO, H.C. - ZHANG, Y.C. - ZHANG, J.F. - SU, H.K. - FAN, X.M. - ZHANG, J.C. - HAO, Y. *High quality GaN films on miscut (111) diamond substrates through non-c orientation suppression. In RESULTS IN PHYSICS. ISSN 2211-3797, APR 2023, vol. 47. Dostupné na: https://doi.org/10.1016/j.rinp.2023.106368, Registrované v: WOS*

3. [1.1] TRAN, D.Q. - PASKOVA, T. - DARAKCHIEVA, V. - PASKOV, P.P. *On the thermal conductivity anisotropy in wurtzite GaN. In AIP ADVANCES. SEP 1*

2023, vol. 13, no. 9. Dostupné na: <https://doi.org/10.1063/5.0167866>,

Registrované v: WOS

4. [1.1] TRAN, D.Q. - TASNÁDI, F. - ZUKAUSKAITE, A. - BIRCH, J. - DARAKCHIEVA, V. - PASKOV, P.P. Thermal conductivity of ScxAl1-xN and YxAl1-xN alloys. In APPLIED PHYSICS LETTERS. ISSN 0003-6951, MAY 1 2023, vol. 122, no. 18. Dostupné na: <https://doi.org/10.1063/5.0145847>,
Registrované v: WOS

ADCA307

KUZMÍK, Ján** - ADIKIMENAKIS, A. - ŤAPAJNA, Milan - GREGUŠOVÁ, Dagmar - HAŠČÍK, Štefan - DOBROČKA, Edmund - TSAGARAKI, K. - STOKLAS, Roman - GEORGAKILAS, A. InN: breaking the limits of solid-state electronics. In AIP Advances, 2021, vol. 11, no. 125325. (2020: 1.548 - IF, Q4 - JCR, 0.421 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 2158-3226. Dostupné na: <https://doi.org/10.1063/5.0066340>

Citácie:

1. [1.1] DAMAS, G.B. - RÖNNBY, K. - PEDERSEN, H. - OJAMÄE, L. Thermal decomposition of trimethylindium and indium trisguanidinate precursors for InN growth: An ab initio and kinetic modeling study. In JOURNAL OF CHEMICAL PHYSICS. ISSN 0021-9606, MAY 7 2023, vol. 158, no. 17. Dostupné na: <https://doi.org/10.1063/5.0148070>, Registrované v: WOS

2. [1.1] LOO, C.C. - NG, S.S. - YU, H.W. - CHANG, E.Y. - DEE, C.F. - CHANG, W.S. Probing the charge state of threading dislocations in indium nitride through advanced atomic force microscopy. In MATERIALS CHARACTERIZATION. ISSN 1044-5803, NOV 2023, vol. 205. Dostupné na: <https://doi.org/10.1016/j.matchar.2023.113279>, Registrované v: WOS

ADCA308

KVITKOVIČ, Jozef - MAJOROŠ, Milan. Three axis cryogenic Hall sensor. In Journal of Magnetism and Magnetic Materials, 1996, vol. 157/158, p. 440. (1995: 1.208 - IF, karentované - CCC). (1996 - Current Contents, WOS, SCOPUS). ISSN 0304-8853.

Citácie:

1. [1.1] ROTHEUDT, N. - FAGNARD, J.F. - HARMELING, P. - VANDERBEMDEN, P. Adapting a commercial integrated circuit 3-axis Hall sensor for measurements at low temperatures: Mapping the three components of B in superconducting applications. In CRYOGENICS. ISSN 0011-2275, JUL 2023, vol. 133. Dostupné na: <https://doi.org/10.1016/j.cryogenics.2023.103693>,
Registrované v: WOS

ADCA309

KVITKOVIČ, Jozef - PAMIDI, S.V. - VOCCIO, J. Shielding of AC magnetic fields using comercial YBa2Cu3O7-coated conductor tapes. In Superconductor Science and Technology, 2009, vol. 22, no. 125009. (2008: 1.847 - IF, Q2 - JCR, 1.867 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] ALVAREZ, A. - RIVERA, B. - PÉREZ, B. - SUÁREZ, P. Shielding Characteristics of Solenoidal Superconducting Screens Made From HTS Tape, for SFCL Applications. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 22835-22842. Dostupné na: <https://doi.org/10.1109/ACCESS.2023.3247749>,
Registrované v: WOS

2. [1.1] BRIALMONT, S. - DULAR, J. - WÉRA, L. - FAGNARD, J.F. - VANDERHEYDEN, B. - GEUZAINÉ, C. - HAHN, S. - PATEL, A. - VANDERBEMDEN, P. Magnetic shielding up to 0.67 T at 77 K using a stack of high temperature superconducting tape annuli of 26 mm bore. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, MAY 1 2023, vol. 36, no. 5. Dostupné na: <https://doi.org/10.1088/1361-6668/acc981>,

Registrované v: WOS

3. [1.1] WU, Y.L. - ZHANG, G.M. - WU, Y. - ZHANG, D. - JING, L.W. *Research on Improving the Shielding Effect of Stacked Superconducting Bulks Based on Increasing the Gap Reluctance. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, SEP 2023, vol. 33, no. 6. Dostupné na: <https://doi.org/10.1109/TASC.2023.3269299>, Registrované v: WOS*

ADCA310

KVITKOVIČ, Jozef - VOCCIO, J. - PAMIDI, S.V. Shielding of AC magnetic fields by coils and sheets of superconducting tapes. In IEEE Transactions on Applied Superconductivity, 2009, vol. 19, p. 3577-3580. (2008: 0.919 - IF, Q3 - JCR, 0.884 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, SCOPUS).

Citácie:

1. [1.1] WANG, S.Y. - WANG, S.S. - YU, X. - XU, H. - LI, Y.Y. - JIANG, H.Y. - SUN, K.Y. *Design and analysis of a hybrid magnetic shielding system: application for the magnetic non-destructive testing of circuits. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, MAR 1 2023, vol. 36, no. 3. Dostupné na: <https://doi.org/10.1088/1361-6668/acb090>, Registrované v: WOS*

2. [1.1] ZHU, X.K. - ZHOU, Y. - LI, X.L. - HAN, P. - HUA, W. - WANG, Y.B. - WU, Y.C. - CUI, Y.M. *Analysis and Design of New Composite HTS Magnet With Active Magnetic Shield. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3264549>, Registrované v: WOS*

ADCA311

LABINTSEV, A. - KHASANSHIN, I. - BALASHOV, D. - BOCHAROV, M. - BUBLIKOV, Konstantin. Recognition punches in karate using acceleration sensors and convolution neural networks. In IEEE Access, 2021, vol. 9, p. 138106-138119. (2020: 3.367 - IF, Q2 - JCR, 0.587 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2169-3536. Dostupné na:

<https://doi.org/10.1109/ACCESS.2021.3118038>

Citácie:

1. [1.1] ANA, J.S. - KONS, R.L. - DETANICO, D. - DIEFENTHAELER, F. *The use of mobile solutions for biomechanical assessment in combat sports: A narrative review. In PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART P-JOURNAL OF SPORTS ENGINEERING AND TECHNOLOGY. ISSN 1754-3371, 2023 SEP 26 2023. Dostupné na: <https://doi.org/10.1177/17543371231199810>, Registrované v: WOS*

2. [1.1] HAJIZADEH, R. *Unconstrained neighbor selection for minimum reconstruction error-based K-NN classifiers. In COMPLEX & INTELLIGENT SYSTEMS. ISSN 2199-4536, OCT 2023, vol. 9, no. 5, p. 5715-5730. Dostupné na: <https://doi.org/10.1007/s40747-023-01027-1>, Registrované v: WOS*

3. [1.1] ITO, S. - MIURA, S. *Assessment of a karate performer's position estimation system without any markers. In 2023 45TH ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE & BIOLOGY SOCIETY, EMBC. ISSN 1557-170X, 2023. Dostupné na: <https://doi.org/10.1109/EMBC40787.2023.10340470>, Registrované v: WOS*

4. [1.1] KRANZINGER, C. - BERNHART, S. - KREMSER, W. - VENEK, V. - RIESER, H. - MAYR, S. - KRANZINGER, S. *Classification of Human Motion Data Based on Inertial Measurement Units in Sports: A Scoping Review. In APPLIED SCIENCES-BASEL. AUG 2023, vol. 13, no. 15. Dostupné na: <https://doi.org/10.3390/app13158684>, Registrované v: WOS*

5. [1.1] VUKOVIC, V. - UMEK, A. - DOPSAJ, M. - KOS, A. - MARKOVIC, S. - KOROPANOVSKI, N. *Variability and the Correlation of Kinematic and Temporal Parameters in Different Modalities of the Reverse Punch Measured by Sensors. In APPLIED SCIENCES-BASEL. SEP 2023, vol. 13, no. 18. Dostupné na:*

<https://doi.org/10.3390/app131810348>, Registrované v: WOS

6. [1.2] ANIFAH, Lilik - ZUHRIE, Muhamad Syariffuddien - MUHAMMAD - HARYANTO. INTEGRATED SMART REAL TIME SCORING PENCAK SILAT BASED ON INTERNET OF THINGS (IOT). In *International Journal on Technical and Physical Problems of Engineering*, 2023-03-01, 15, 1, pp. 155-163., Registrované v: SCOPUS

7. [1.2] DAKER, Mahmoud - ELSAYAAD, Farida - ATIA, Ayman. Karate Kata Style Classification Using Pose Landmarks and Deep Learning. In *5th Novel Intelligent and Leading Emerging Sciences Conference, NILES 2023 Proceedings*, 2023-01-01, pp. 228-231. Dostupné na:

<https://doi.org/10.1109/NILESS59815.2023.10296806>, Registrované v: SCOPUS

8. [1.2] JAYASEKARA, S. M. - WEERASINGHE, S. S. - ABAYAWARDANA, D. Y.W. - WELAGEDARA, A. R. - SIRIWARDANA, S. E.R. - KORALALAGE, M. N. Kaizen: Computer Vision Based Interactive Karate Training Platform. In *IEEE Region 10 Annual International Conference, Proceedings/TENCON*, 2022-01-01, 2022-November, pp. ISSN 21593442. Dostupné na:

<https://doi.org/10.1109/TENCON55691.2022.9977691>, Registrované v: SCOPUS

9. [1.2] MOSTAFA, Khaled - HANY, Mohamed - ATIA, Ayman. Automated Evaluation of Karate Practitioners'; Style during the First Kata Performance using Deep Learning and Pose Estimation. In *5th Novel Intelligent and Leading Emerging Sciences Conference, NILES 2023 Proceedings*, 2023-01-01, pp. 238-241. Dostupné na: <https://doi.org/10.1109/NILESS59815.2023.10296663>, Registrované v: SCOPUS

10. [1.2] SANT' ANA, Jader - KONS, Rafael Lima - DETANICO, Daniele - DIEFENTHAELER, Fernando. The use of mobile solutions for biomechanical assessment in combat sports: A narrative review. In *Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology*, 2023-01-01, pp. ISSN 17543371. Dostupné na:

<https://doi.org/10.1177/17543371231199810>, Registrované v: SCOPUS

11. [1.2] SRIANTO, Widha - SISWANTOYO - SUDARKO, Rumpis Agus - ARGA, Muhammad Wahyu - SUSAN, Susanto. Technical Skills Assessment Anaiysis: Gyaku-Zuki Shots in Karate. In *Sportske Nauke i Zdravlje*, 2023-01-01, 13, 2, pp. 185-190. ISSN 22328211. Dostupné na: <https://doi.org/10.7251/SSH2302185S>, Registrované v: SCOPUS

12. [1.2] WALID, Mazen - AMEEN, Mostafa - ATIA, Ayman. Real-time Detection of Taikyoku Shodan Karate Kata Poses Using Classical Machine Learning and Deep Learning Models. In *3rd International Mobile, Intelligent, and Ubiquitous Computing Conference, MIUCC 2023*, 2023-01-01, pp. 15-20. Dostupné na:

<https://doi.org/10.1109/MIUCC58832.2023.10278373>, Registrované v: SCOPUS

ADCA312

LACROIX, C.** - GIGUÈRE, J. - BERGERON HARTMAN, S.-M. - SAAD, H.B. - MARTIN, A. - LEDUC, T. - GENDRON-PAUL, M. - BELLIL, Z. - FOURNIER-LUPIEN, J.-H. - MORET, L. - BARUSCO, P. - GRANADOS, X. - OBRADORS, X. - PEKARČÍKOVÁ, M. - GÖMÖRY, Fedor - GROSSE, V. - BAUER, M. - SIROIS, F.**. Normal zone propagation in various REBCO tape architectures. In *Superconductor Science and Technology*, 2022, vol. 35, no. 055009. (2021: 3.464 - IF, Q2 - JCR, 0.826 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ac56ff>
Citácie:

1. [1.1] TIXADOR, P. Fault current limiter based on high temperature superconductors. In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*. ISSN 0921-4534, DEC 15 2023, vol. 615. Dostupné na: <https://doi.org/10.1016/j.physc.2023.1354398>, Registrované v: WOS

2. [1.1] WANG, Y.N. - JING, Z. *Multiscale modelling and numerical homogenization of the coupled multiphysical behaviors of high-field high temperature superconducting magnets. In COMPOSITE STRUCTURES. ISSN 0263-8223, JUN 1 2023, vol. 313. Dostupné na:*
<https://doi.org/10.1016/j.compstruct.2023.116863>, Registrované v: WOS
- ADCA313 LAHTINEN, V. - PARDO, Enric - ŠOUC, Ján - SOLOVYOV, Mykola - STENVALL, A. Ripple field losses in direct current biased superconductors: simulations and comparison with measurements. In *Journal of Applied Physics*, 2014, vol. 115, 113907. (2013: 2.185 - IF, Q2 - JCR, 1.165 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/1.4868898>
 Citácie:
 1. [1.1] SUN, Y.M. - YOU, S.R. - BADCOCK, R.A. - LONG, N.J. - JIANG, Z.A. *Dynamic resistance and total loss in small REBCO pancake and racetrack coils carrying DC currents under an AC magnetic field. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, APR 1 2023, vol. 36, no. 4. Dostupné na: https://doi.org/10.1088/1361-6668/acb4c0, Registrované v: WOS*
 2. [1.1] TER HARMSEL, J. - OTTEN, S. - DHALLE, M. - TEN KATE, H. *Magnetization loss and transport current loss in ReBCO racetrack coils carrying stationary current in time-varying magnetic field at 4.2 K. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, JAN 1 2023, vol. 36, no. 1. Dostupné na: https://doi.org/10.1088/1361-6668/aca83d, Registrované v: WOS*
- ADCA314 LALIENA, C. - QUREISHY, T. - MARTINEZ, E. - NAVARRO, R. - MIKHEENKO, P. - JOHANSON, T.H. - KOVÁČ, Pavol. Effect of ball milling on the local magnetic flux distribution and microstructure of in situ Fe/MgB₂ conductors. In *Journal of Alloys and Compounds*, 2017, vol. 717, p. 164-170. (2016: 3.133 - IF, Q1 - JCR, 0.954 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2017.05.083>
 Citácie:
 1. [1.1] MAEDA, M. - MATSUMOTO, A. - NISHIJIMA, G. - HEO, Y.U. - HAHN, S. - LEE, S. - CHOI, S. - KIM, J.H. *Performance of MgB₂ superconducting wire fabricated with non- identical Mg particles. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, SEP 5 2023, vol. 954. Dostupné na: https://doi.org/10.1016/j.jallcom.2023.170148, Registrované v: WOS*
- ADCA315 LALINSKÝ, Tibor - BURIAN, Eduard - DRŽÍK, Milan - HASČÍK, Štefan - MOZOLOVÁ, Želmíra - KUZMÍK, Ján. Thermal actuation of a GaAs cantilever beam. In *Journal of Micromechanics and Microengineering*, 2000, vol. 10, p. 293-298. (1999: 1.270 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0960-1317.
 Citácie:
 1. [1.1] WEI, L. - YOU, Z.W. - KUAI, X.B. - ZHANG, M.L. - YANG, F.H. - WANG, X.D. *MEMS thermal-piezoresistive resonators, thermal-piezoresistive oscillators, and sensors. In MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS. ISSN 0946-7076, JAN 2023, vol. 29, no. 1, p. 1-17. Dostupné na: https://doi.org/10.1007/s00542-022-05391-9, Registrované v: WOS*
- ADCA316 LALINSKÝ, Tibor - GREGUŠOVÁ, Dagmar - MOZOLOVÁ, Želmíra - BREZA, J. - VONGRINČIČ, P. High-temperature stable In-Al/n-GaAs Schottky diodes. In *Applied Physics Letters*, 1994, vol. 64, p. 1818.
 Citácie:

1. [1.1] *BEKEZINA, T.P. - VAISBEKKER, M.S. - BURMISTROVA, V.A. - BOZHKOVA, V.G. Electrochemical Deposition of Iridium onto Gallium Arsenide from a Sulfamate Electrolyte Based on Hexachloroiridic(IV) Acid. In RUSSIAN JOURNAL OF APPLIED CHEMISTRY. ISSN 1070-4272, DEC 2023, vol. 96, no. 12, p. 1063-1075. Dostupné na: <https://doi.org/10.1134/S1070427223120066>, Registrované v: WOS*
- ADCA317 LALINSKÝ, Tibor - VANKO, Gabriel - VINCZE, A. - HAŠČÍK, Štefan - OSVALD, Jozef - DONOVAL, D. - TOMÁŠKA, M. - KOSTIČ, Ivan. Effect of fluorine interface redistribution on performance of AlGaIn/GaN HEMTs. In *Microelectronic Engineering*, 2011, vol. 88, p. 166-169. (2010: 1.575 - IF, Q2 - JCR, 0.934 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0167-9317. Dostupné na: <https://doi.org/10.1016/j.mee.2010.10.005>
- Citácie:
1. [1.1] *MAUDUIT, Clément - TLEMCANI, Taoufik Slimani - ZHANG, Meiling - YVON, Arnaud - VIVET, Nicolas - CHARLES, Matthew - GWOZIECKI, Romain - ALQUIER, Daniel. Importance of layer distribution in Ni and Au based ohmic contacts to p-type GaN. In Microelectronic Engineering, 2023-05-15, 277, pp. ISSN 01679317. Dostupné na: <https://doi.org/10.1016/j.mee.2023.112020>, Registrované v: WOS*
- ADCA318 LALINSKÝ, Tibor - RUFER, L. - VANKO, Gabriel - MIR, S. - HAŠČÍK, Štefan - MOZOLOVÁ, Želmíra - VINCZE, A. - UHEREK, F. AlGaIn/GaN heterostructure based surface acoustic wave structures for chemical sensors. In *Applied Surface Science*, 2008, vol. 255, p. 712-714. (2007: 1.406 - IF, Q2 - JCR, 0.791 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0169-4332.
- Citácie:
1. [1.1] *HORTA, I.M. - DAMASCENO, B.S. - OLIVEIRA, R.S.D. - PEREIRA, A.L.D. - MASSI, M. - SOBRINHO, A.S.D. - LEITE, D.M.G. AlGaIn films grown by reactive magnetron sputtering on glass substrates with different Al content. In SURFACES AND INTERFACES. ISSN 2468-0230, AUG 2023, vol. 40. Dostupné na: <https://doi.org/10.1016/j.surf.2023.103023>, Registrované v: WOS*
- ADCA319 LALINSKÝ, Tibor - VALLO, Martin - VANKO, Gabriel - DOBROČKA, Edmund - VINCZE, A. - OSVALD, Jozef - RÝGER, Ivan - DZUBA, Jaroslav. Iridium oxides based gate interface of AlGaIn/GaN high electron mobility transistors formed by high temperature oxidation. In *Applied Surface Science*, 2013, vol. 283, p. 160-167. (2012: 2.112 - IF, Q1 - JCR, 0.913 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2013.06.069>
- Citácie:
1. [1.1] *EISNER, S.R. - SENESKY, D.G. Temperature and field dependencies of current leakage mechanisms in IrOx contacts on InAlIn/GaN heterostructures. In APPLIED PHYSICS LETTERS. ISSN 0003-6951, OCT 9 2023, vol. 123, no. 15. Dostupné na: <https://doi.org/10.1063/5.0171204>, Registrované v: WOS*
- ADCA320 LALINSKÝ, Tibor - HUDEK, Peter - VANKO, Gabriel - DZUBA, Jaroslav - KUTIŠ, V. - SRNÁNEK, R. - CHOLEVA, P. - VALLO, Martin - DRŽÍK, Milan - MATAY, Ladislav - KOSTIČ, Ivan. Micromachined membrane structures for pressure sensors based on AlGaIn/GaN circular HEMT sensing device. In *Microelectronic Engineering : an international journal of semiconductor manufacturing technology*, 2012, vol. 98, p. 578-581. (2011: 1.557 - IF, Q2 - JCR, 0.813 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0167-9317. Dostupné na: <https://doi.org/10.1016/j.mee.2012.06.014>
- Citácie:
1. [1.1] *NALLUSAMY, Nagarajan - SINGHAL, Rahul - SHARMA, Sunil Kumar -*

RAWAL, Dipendra Singh. *High-Electron-Mobility Transistor-Inspired Freestanding AlGaIn/GaN/AlN Optical Waveguide for High-Pressure Sensing Applications*. In *PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE*, 2023, vol. 220, no. 7, pp. ISSN 1862-6300. Dostupné na: <https://doi.org/10.1002/pssa.202200637>, Registrované v: WOS

2. [1.2] MOSER, Matthias - PRADHAN, Mamta - ALOMARI, Mohammed - HEUKEN, Michael - SCHMITT, Thomas - KALLFASS, Ingmar - BURGHARTZ, Joachim N. *PECVD SiNx passivation with more than 8 MV/cm breakdown strength for GaN-on-Si wafer stress management*. In *Power Electronic Devices and Components*, 2023-03-01, 4, pp. Dostupné na: <https://doi.org/10.1016/j.pedc.2022.100032>, Registrované v: SCOPUS

ADCA321 LAURENČÍKOVÁ, Agáta** - ELIÁŠ, Peter - HASENÖHRL, Stanislav - KOVÁČ, Jaroslav Jr. - SZOBOLOVSZKÝ, R. - NOVÁK, Jozef. GaP nanocones covered with silver nanoparticles for surface-enhanced Raman spectroscopy. In *Applied Surface Science*, 2018, vol. 461, p. 149-153. (2017: 4.439 - IF, Q1 - JCR, 1.093 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2018.05.175> (VEGA 2/0104/17)

Citácie:

1. [1.1] DUMISZEWSKA, E. - MICHALOWSKA, A. - NOZKA, L. - CZOLAK, D. - KRAJCZEWSKI, J. *Plasmonic Modification of Epitaxial Nanostructures for the Development of a Highly Efficient SERS Platform*. In *CRYSTALS. NOV 2023*, vol. 13, no. 11. Dostupné na: <https://doi.org/10.3390/cryst13111539>, Registrované v: WOS

2. [1.1] LEE, J.Y. - LEE, H.Y. - RYU, J.H. - KIM, S.H. - JANG, J.H. - HWANG, S.L. - AHN, H.S. - YI, S.N. *Surface plasmon resonance absorption peak control through regulation of particle size and concentration of an indium tin oxide nanoparticle solution*. In *JOURNAL OF THE KOREAN PHYSICAL SOCIETY*. ISSN 0374-4884, MAR 2023, vol. 82, no. 5, p. 473-478. Dostupné na: <https://doi.org/10.1007/s40042-023-00721-0>, Registrované v: WOS

ADCA322 LE BOULBAR, E.D. - EDWARDS, M.J. - VITTOZ, S. - VANKO, Gabriel - BRINKFELDT, K. - JOHANDER, P. - LALINSKÝ, Tibor - BOWEN, C.R. - ALLSOPP, D.W.E. Effect of bias conditions on pressure sensors based on AlGaIn/GaN high electron mobility transistor. In *Sensors and Actuators A*, 2013, vol. 194, p. 247-251. (2012: 3.535 - IF, Q1 - JCR, 1.412 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0925-4005. Dostupné na: <https://doi.org/10.1016/j.sna.2013.02.017>

Citácie:

1. [1.1] BLANTON, E.W. - PRUSNICK, T.A. - GREEN, A.J. - GLAVIN, N. - SNURE, M. *Effect of surface potential pinning on strain behavior of AlGaIn/GaN device structures*. In *APPLIED PHYSICS LETTERS*. ISSN 0003-6951, APR 24 2023, vol. 122, no. 17. Dostupné na: <https://doi.org/10.1063/5.0132472>, Registrované v: WOS

2. [1.1] NEUMANN, P.L. - RADÓ, J. - BOZORÁDI, J.M. - VOLK, J. *AlGaIn/GaN heterostructure based 3-dimensional force sensors*. In *MICRO AND NANO ENGINEERING*. JUN 2023, vol. 19. Dostupné na: <https://doi.org/10.1016/j.mne.2023.100198>, Registrované v: WOS

ADCA323 LEBEDEV, O.I. - VERBEECK, J. - VAN TENDELOO, G. - DUBORDIEU, C. - ROSINA, Milan - CHAUDOUET, P. Structure and properties of artificial [(La_{0.7}Sr_{0.3}MnO₃)_m(SrTiO₃)_n]₁₅ superlattices on (001)SrTiO₃. In *Journal of Applied Physics*. - New York : American Institute of Physics, 2003, vol. 94, p. 7646-7656. (2002: 2.281 - IF, karentované - CCC). (2003 - Current Contents, WOS, SCOPUS). ISSN 0021-8979.

Citácie:

1. [1.1] SHUKLA, A. *Distinct dominant dielectric relaxation mechanisms in CaCu₃Ti₄O₁₂-LaMO₃ (M = Mn and Fe) perovskite oxide solid solution*. In *JOURNAL OF SOLID STATE CHEMISTRY*. ISSN 0022-4596, SEP 2023, vol. 325. Dostupné na: <https://doi.org/10.1016/j.jssc.2023.124182>, Registrované v: WOS

ADCA324 LEITH, S. - VOGEL, Matthias** - FAN, Jianglin - SEILER, Eugen - RIES, Rastislav - JIANG, X.S.**. *Superconducting NbN thin films for use in superconducting radio frequency cavities*. In *Superconductor Science and Technology*, 2021, vol. 34, no. 025006. (2020: 3.219 - IF, Q2 - JCR, 1.033 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/abc73b>

Citácie:

1. [1.1] XIE, W. - LIU, Y.H. - FAN, X.W. - WEN, H.H. *Significant improvement of the lower critical field in Y doped Nb: potential replacement of basic material for the radio-frequency superconducting cavity*. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, JUL 1 2023, vol. 36, no. 7. Dostupné na: <https://doi.org/10.1088/1361-6668/acd608>, Registrované v: WOS

2. [1.2] ZOU, Qin - SUN, Junrong - LI, Yanguo - LUO, Yong'an. *Interfacial diffusion in TiNinf_{0.3}/inf/AlN composite*. In *Jingangshi yu Moliao Moju Gongcheng/Diamond and Abrasives Engineering*, 2023-10-01, 43, 5, pp. 537-545. ISSN 1006852X. Dostupné na: <https://doi.org/10.13394/j.cnki.jgszz.2022.0222>, Registrované v: SCOPUS

ADCA325 LETTRICHOVÁ, I.** - LAURENČÍKOVÁ, Agáta - PUDIŠ, D. - NOVÁK, Jozef - GORAUS, M. - KOVÁČ, Jaroslav Jr. - GASO, P. - NEVŘELA, J. *2D periodic structures patterned on 3D surfaces by interference lithography for SERS*. In *Applied Surface Science*, 2018, vol. 461, p. 171-174. (2017: 4.439 - IF, Q1 - JCR, 1.093 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2018.06.162>

Citácie:

1. [1.1] NIE, C.H. - SHAW, I. - CHEN, C.P. *Application of microfluidic technology based on surface-enhanced Raman scattering in cancer biomarker detection: A review*. In *JOURNAL OF PHARMACEUTICAL ANALYSIS*. ISSN 2095-1779, DEC 2023, vol. 13, no. 12, p. 1429-1451. Dostupné na: <https://doi.org/10.1016/j.jpha.2023.08.009>, Registrované v: WOS

2. [1.1] ROA, S. - AKINOGLU, G.E. - PEDANO, M.L. *Electric field enhancement in Au and Ag nanodisks-based photonic crystals: Relevant design insights for efficient SERS substrates*. In *SURFACES AND INTERFACES*. ISSN 2468-0230, JUL 2023, vol. 39. Dostupné na: <https://doi.org/10.1016/j.surfin.2023.102948>, Registrované v: WOS

ADCA326 LEVIN, G.A. - MURPHY, J. - HAUGAN, T.J. - ŠOUC, Ján - KOVÁČ, Ján - KOVÁČ, Pavol. *AC losses of copper stabilized multifilament YBCO coated conductors*. In *IEEE Transactions on Applied Superconductivity*, 2013, vol. 23, 6600604. (2012: 1.199 - IF, Q2 - JCR, 0.575 - SJR, karentované - CCC). (2013 - Current Contents, SCOPUS). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2012.2232337>

Citácie:

1. [1.1] LIU, J. - SUO, H.L. - ZHANG, Z.L. - JI, Y.T. - LI, J.Z. - WANG, L.J. - WANG, L. - WANG, Q.L. *Strong cube texture formation of Ni₅W/Ni_{9.3}W/Ni₅W composite thin substrates for YBCO-coated conductors*. In *MATERIALS SCIENCE AND TECHNOLOGY*. ISSN 0267-0836, SEP 2 2023, vol. 39, no. 13, p. 1566-1578. Dostupné na: <https://doi.org/10.1080/02670836.2023.2174711>,

Registrované v: WOS

ADCA327 LI, S. - KOVÁČ, Ján - PARDO, Enric**. Coupling loss at the end connections of REBCO stacks: 2D modelling and measurement. In *Superconductor Science and Technology*, 2020, vol. 33, no. 075014. (2019: 3.067 - IF, Q2 - JCR, 0.991 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ab9027> (H2020 ASuMED. VEGA 2/0097/18)

Citácie:

1. [1.1] FU, Y.T. - YANG, Q.Q. - JIANG, G.Y. - WANG, Y.W. - XUE, W.B. - ZHAO, Y. - JIN, Z.J. Eddy Current and Loss of Graded-Resistance No-Insulation Coils in HTS Synchronous Machines of Electrical Aircraft. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3258903>, Registrované v: WOS

2. [1.1] TER HARMSEL, J. - OTTEN, S. - DHALLÉ, M. - TEN KATE, H. Effect of a DC transport current on the AC loss in no-insulation ReBCO racetrack coils exposed to AC parallel magnetic field at 77 K and 4.2 K. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, JUL 1 2023, vol. 36, no. 7. Dostupné na: <https://doi.org/10.1088/1361-6668/acd666>, Registrované v: WOS

3. [1.1] ZHOU, Q.X. - CHEN, S. - GUO, Q. - SU, T. - WANG, J.Y. - ZHANG, Y.F. Analysis of AC Loss Characteristics of Stacked High-Temperature Superconducting Tapes. In *JOURNAL OF ELECTRONIC MATERIALS*. ISSN 0361-5235, FEB 2023, vol. 52, no. 2, SI, p. 1154-1168. Dostupné na: <https://doi.org/10.1007/s11664-022-10078-y>, Registrované v: WOS

ADCA328 LI, S.* - PARDO, Enric**. Numerical modelling of soldered superconducting REBCO stacks of tapes suggests strong reduction in cross-field demagnetization. In *Scientific Reports*, 2023, vol. 13, no. 1087. (2022: 4.6 - IF, Q2 - JCR, 0.973 - SJR, Q1 - SJR). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-023-27996-4> (VEGA 2/0036/21. APVV 19-0536)

Citácie:

1. [1.1] WANG, S.J. - YONG, H.D. - ZHOU, Y.H. Numerical calculations of high temperature superconductors with the J-A formulation. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acfbbe>, Registrované v: WOS

ADCA329 LI, X. - SHEN, Lingling - BAI, Y. - WANG, J. - ZHANG, X. - XIA, J.H. - EZAWA, M. - TRETIAKOV, O.A. - XU, X. - MRUCZKIEWICZ, Michal - KRAWCZYK, M. - XU, Y. - EVANS, R.F.L. - CHANTRELL, R.W. - ZHOU, You**. Bimeron clusters in chiral antiferromagnets. In *npj Computational Materials*, 2020, vol. 6, no. 169. (2019: 9.341 - IF, Q1 - JCR, 3.440 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2057-3960. Dostupné na: <https://doi.org/10.1038/s41524-020-00435-y>

Citácie:

1. [1.1] ABUAWWAD, N. - DIAS, M.D. - ABUSARA, H. - LOUNIS, S. CrTe₂ as a two-dimensional material for topological magnetism in complex heterobilayers. In *PHYSICAL REVIEW B*. ISSN 2469-9950, SEP 5 2023, vol. 108, no. 9. Dostupné na: <https://doi.org/10.1103/PhysRevB.108.094409>, Registrované v: WOS

2. [1.1] ALDARAWSHEH, A. - SALLERMANN, M. - ABUSAA, M. - LOUNIS, S. Intrinsic Ne'el Antiferromagnetic Multimeronic Spin Textures in Ultrathin Films. In *JOURNAL OF PHYSICAL CHEMISTRY LETTERS*. ISSN 1948-7185, SEP 29 2023, vol. 14, no. 40, p. 8970-8978. Dostupné na: <https://doi.org/10.1021/acs.jpcllett.3c02419>, Registrované v: WOS

3. [1.1] BABU, P. - PERUMAL, H.P. - KUNNATH, S.S. - SINHA, J. *Tunable Creation and Annihilation of Magnetic Bimerons in Square-Shaped Submicron Dot*. In *ACS APPLIED ELECTRONIC MATERIALS*. DEC 29 2023, vol. 6, no. 1, p. 221-229. Dostupné na: <https://doi.org/10.1021/acsaelm.3c01172>, Registrované v: WOS
4. [1.1] DIGUET, G. - DUCHARNE, B. - EL HOG, S. - KATO, F. - KOIBUCHI, H. - UCHIMOTO, T. - DIEP, H.T. *Monte Carlo studies of skyrmion stabilization under geometric confinement and uniaxial strain*. In *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*. ISSN 0304-8853, AUG 1 2023, vol. 579. Dostupné na: <https://doi.org/10.1016/j.jmmm.2023.170819>, Registrované v: WOS
5. [1.1] DOU, K.Y. - DU, W.H. - HE, Z.L. - DAI, Y. - HUANG, B.B. - MA, Y.D. *Theoretical Prediction of Antiferromagnetic Skyrmion Crystal in Janus Monolayer CrSi2N2As2*. In *ACS NANO*. ISSN 1936-0851, JAN 24 2023, vol. 17, no. 2, p. 1144-1152. Dostupné na: <https://doi.org/10.1021/acsnano.2c08544>, Registrované v: WOS
6. [1.1] FUGETTA, B.J. - CHEN, Z.J. - BHATTACHARYA, D. - YUE, K. - LIU, K. - LIU, A.Y. - YIN, G. *Machine-learning recognition of Dzyaloshinskii-Moriya interaction from magnetometry*. In *PHYSICAL REVIEW RESEARCH*. OCT 4 2023, vol. 5, no. 4. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.5.043012>, Registrované v: WOS
7. [1.1] KHOSHLAHNI, R. - LEPADATU, S. - KOUHI, M. - MOHSENI, M. *Skyrmion dynamics induced by surface acoustic waves in antiferromagnetic systems*. In *PHYSICAL REVIEW B*. ISSN 2469-9950, APR 19 2023, vol. 107, no. 14. Dostupné na: <https://doi.org/10.1103/PhysRevB.107.144421>, Registrované v: WOS
8. [1.1] LI, P. - YU, D.X. - LIANG, J.H. - GA, Y.L. - YANG, H.X. *Topological spin textures in 1T-phase Janus magnets: Interplay between Dzyaloshinskii-Moriya interaction, magnetic frustration, and isotropic higher-order interactions*. In *PHYSICAL REVIEW B*. ISSN 2469-9950, FEB 9 2023, vol. 107, no. 5. Dostupné na: <https://doi.org/10.1103/PhysRevB.107.054408>, Registrované v: WOS
9. [1.1] SILVA, R.L. - SILVA, R.C. - MASAKI, Y. *Antiferromagnetic bimeron dynamics controlled by magnetic defects*. In *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*. ISSN 0304-8853, DEC 1 2023, vol. 587. Dostupné na: <https://doi.org/10.1016/j.jmmm.2023.171219>, Registrované v: WOS
10. [1.1] TANG, C. - DU, A.J. *Perspective on computational design of two-dimensional materials with robust multiferroic coupling*. In *APPLIED PHYSICS LETTERS*. ISSN 0003-6951, MAR 27 2023, vol. 122, no. 13. Dostupné na: <https://doi.org/10.1063/5.0146081>, Registrované v: WOS

ADCA330

LOBATO, B. - VRETENÁR, Viliam - KOTRUSZ, Peter - HULMAN, Martin - CENTENO, T.A. *Reduced graphite oxide in supercapacitor electrodes*. In *Journal of Colloid and Interface Science*, 2015, vol. 446, p. 203-207. (2014: 3.368 - IF, Q2 - JCR, 1.167 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0021-9797. Dostupné na: <https://doi.org/10.1016/j.jcis.2015.01.037>

Citácie:

1. [1.1] TANG, C.C. - ZHONG, L.S. - XIONG, R.Z. - XIAO, Y.H. - CHENG, B.C. - LEI, S.J. *Regulable in-situ autoredox for anchoring synergistic Ni/NiO nanoparticles on reduced graphene oxide with boosted alkaline electrocatalytic oxygen evolution*. In *JOURNAL OF COLLOID AND INTERFACE SCIENCE*. ISSN 0021-9797, OCT 15 2023, vol. 648, p. 181-192. Dostupné na: <https://doi.org/10.1016/j.jcis.2023.05.179>, Registrované v: WOS
2. [1.1] ZAINAB, S. - FRAZ, S. - AWAN, S.U. - HUSSAIN, D. - RIZWAN, S. - MEHMOOD, W. *Optimized time dependent exfoliation of graphite for fabrication*

of Graphene/GO/GrO nanocomposite based pseudo-supercapacitor. In SCIENTIFIC REPORTS. ISSN 2045-2322, AUG 30 2023, vol. 13, no. 1. Dostupné na: <https://doi.org/10.1038/s41598-023-41309-9>, Registrované v: WOS
3. [1.2] ZHU, Shan - HE, Chunnian - ZHAO, Naiqin. Graphene-Based Materials for Supercapacitors. In *Templated Fabrication of Graphene-Based: Materials for Energy Applications, 2022-01-01, pp. 215-243. Dostupné na: <https://doi.org/10.1002/9783527822089.ch9>, Registrované v: SCOPUS*

ADCA331

LOBOTKA, Peter - KUNZO, Pavol - KOVÁČOVÁ, Eva - VÁVRA, Ivo - KRIŽANOVÁ, Zuzana - ŠMATKO, Vasilij - STEJSKAL, J. - KONYUSHENKO, E.N. - OMASTOVÁ, Mária - ŠPITÁLSKY, Zdenko - MÍČUŠÍK, Matej - KRUPA, Igor. Thin polyaniline and polyaniline/carbon nanocomposite films for gas sensing. In *Thin Solid Films : international journal on the science and technology of Thin and Thick Films, 2011, vol. 519, p.4123 - 4127. (2010: 1.935 - IF, Q1 - JCR, 1.132 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0040-6090. Dostupné na: <https://doi.org/10.1016/j.tsf.2011.01.177>*

Citácie:

1. [1.1] ABDULLAH, H. - SUPPIAH, A.R. - YU, J.W. - JURAIT, J. - YAHYA, I. - KAMAL, N. - NAIM, N.M. - BEJO, S.K. - OTHMAN, M.H.D. - FEN, Y.W. - YULIARTO, B. - AHMAD, M.F. - ZIN, N.M. Preparation and characterization of polyaniline-Cu-Ni nanocomposite thin film sensors for detection of pathogenic *Leptospira*. In *MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS. ISSN 0921-5107, DEC 2023, vol. 298. Dostupné na: <https://doi.org/10.1016/j.mseb.2023.116874>, Registrované v: WOS*

2. [1.1] MERONI, D. - GALLONI, M.G. - CIONTI, C. - CERRATO, G. - FALLETTA, E. - BIANCHI, C.L. Efficient Day-and-Night NO₂ Abatement by Polyaniline/TiO₂ Nanocomposites. In *MATERIALS. FEB 2023, vol. 16, no. 3. Dostupné na: <https://doi.org/10.3390/ma16031304>, Registrované v: WOS*

ADCA332

LÜBBERT, D. - FERRARI, C. - MIKULÍK, P. - PERNOT, P. - HELFEN, L. - VERDI, N. - KORYTÁR, Dušan - BAUMBACH, T. Distribution and Burgers vectors of dislocations in semiconductor wafers investigated by rocking-curve imaging. In *Journal of Applied Crystallography, 2005, vol. 38, p. 91-96. ISSN 0021-8898.*

Citácie:

1. [1.1] SAKATA, O. - YAGYU, S. Visualizing local bending of lattice planes by extending two-azimuth synchrotron X-ray diffraction datasets to asymmetric reflection. In *SCIENCE AND TECHNOLOGY OF ADVANCED MATERIALS-METHODS. DEC 31 2023, vol. 3, no. 1. Dostupné na: <https://doi.org/10.1080/27660400.2023.2199130>, Registrované v: WOS*

2. [1.2] SUTTER, John P. - DHAMGAYE, Vishal - FOX, Oliver J.L. - SAWHNEY, Kawal. X-ray topography of diffracting crystal optics at the Diamond Light Source. In *Proceedings of SPIE The International Society for Optical Engineering, 2023-01-01, 12694, pp. ISSN 0277786X. Dostupné na: <https://doi.org/10.1117/12.2675894>, Registrované v: SCOPUS*

ADCA333

LUPTÁK, Roman - FRÖHLICH, Karol - ROSOVÁ, Alica - HUŠEKOVÁ, Kristína - ĎAPAJNA, Milan - MACHAJDÍK, Daniel - JERGEL, Matej - ESPINOS, J.P. - MANSILLA, C. Growth of gadolinium oxide films for advanced MOS structure. In *Microelectronic Engineering, 2005, vol. 80, p. 154-157. ISSN 0167-9317. Dostupné na: <https://doi.org/10.1016/j.mee.2005.04.059>*

Citácie:

1. [1.1] SAWKA, Agata. MOCVD growth of gadolinium oxide layers on tubes. In *CERAMICS INTERNATIONAL, 2023, vol. 49, no. 14, pp. 23835-23843. ISSN*

ADCA334 0272-8842. Dostupné na: <https://doi.org/10.1016/j.ceramint.2023.04.224>,
Registrované v: WOS
MAGDOLENOVA, Z. - DRLIČKOVÁ, M. - HENJUM, K. - RUNDÉN-PRAN, E. -
TULINSKÁ, J. - BILANICOVÁ, D. - POJANA, G. - KAZIMÍROVÁ, A. -
BARANCOKOVÁ, M. - KURICOVÁ, M. - LISKOVA, A. - STARUCHOVÁ, M. -
ČIAMPOR, Fedor - VÁVRA, Ivo - LORENZO, Y. - RINNA, A. - FJELLSBO, L. -
VOLKOVÁ, K. - MARCOMINI, A. - AMIRY-MOGHADDAM, M. -
DUŠINSKÁ, Mária. Coating-dependent induction of cytotoxicity and genotoxicity
of iron oxide nanoparticles. In *Nanotoxicology*, 2015, vol. 9, no. S1, p. 44-56. (2014:
6.411 - IF, Q1 - JCR, 1.714 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current
Contents). ISSN 1743-5390. Dostupné na:
<https://doi.org/10.3109/17435390.2013.847505>

Citácie:

1. [1.1] BI, J.M. - MO, C.Z. - LI, S.W. - HUANG, M.S. - LIN, Y.H. - YUAN, P.Y. -
LIU, Z.J. - JIA, B. - XU, S.M. Immunotoxicity of metal and metal oxide
nanoparticles: from toxic mechanisms to metabolism and outcomes. In
BIOMATERIALS SCIENCE. ISSN 2047-4830, JUN 13 2023, vol. 11, no. 12, p.
4151-4183. Dostupné na: <https://doi.org/10.1039/d3bm00271c>, Registrované v:
WOS
2. [1.1] CHAKRABORTY, A. - MOHAPATRA, S.S. - BARIK, S. - ROY, I. -
GUPTA, B. - BISWAS, A. Impact of nanoparticles on amyloid β -induced
Alzheimer's disease, tuberculosis, leprosy and cancer: a systematic review. In
BIOSCIENCE REPORTS. ISSN 0144-8463, FEB 2023, vol. 43, no. 2. Dostupné
na: <https://doi.org/10.1042/BSR20220324>, Registrované v: WOS
3. [1.1] SAAFANE, A. - GIRARD, D. Interaction between iron oxide
nanoparticles (IONS) and primary human immune cells: An up-to-date review of
the literature. In *TOXICOLOGY IN VITRO*. ISSN 0887-2333, SEP 2023, vol. 91.
Dostupné na: <https://doi.org/10.1016/j.tiv.2023.105635>, Registrované v: WOS
4. [1.1] ZHUANG, Y. - LI, P.L. - SHI, B.Y. Interface Change and Toxicity Risks of
Loose Deposits Induced by Boiling in Water with Discoloration. In *ACS ES&T
WATER*. MAR 10 2023, vol. 3, no. 3, p. 679-689. Dostupné na:
<https://doi.org/10.1021/acsestwater.2c00407>, Registrované v: WOS
5. [1.2] CAVALLO, Delia - CHIARELLA, Pieranna - FRESEGNA, Anna Maria -
CIERVO, Aureliano - DEL FRATE, Valentina - URSINI, Cinzia Lucia. Metal
oxide nanoparticles and graphene-based nanomaterials: Genotoxic, oxidative,
and epigenetic effects. In *Impact of Engineered Nanomaterials in Genomics and
Epigenomics*, 2023-06-26, pp. 99-143. Dostupné na:
<https://doi.org/10.1002/9781119896258.ch5>, Registrované v: SCOPUS
6. [1.2] FERNÁNDEZ-BERTÓLEZ, Natalia - COSTA, Carla - BRANDÃO,
Fátima - TEIXEIRA, João Paulo - PÁSARO, Eduardo - VALDIGLESIAS, Vanessa
- LAFFON, Blanca. Toxicological Aspects of Iron Oxide Nanoparticles. In
Advances in Experimental Medicine and Biology, 2022-01-01, 1357, pp. 303-350.
ISSN 00652598. Dostupné na: https://doi.org/10.1007/978-3-030-88071-2_13,
Registrované v: SCOPUS
7. [1.2] SANGEETHA, V. P. - ARUN, Vandana - MOHANAN, P. V. Genotoxicity
Evaluation of Nanosized Materials. In *Biomedical Applications and Toxicity of
Nanomaterials*, 2023-01-01, pp. 477-534. Dostupné na:
https://doi.org/10.1007/978-981-19-7834-0_19, Registrované v: SCOPUS
8. [1.2] SHARMA, Somi N. - KADRI, Uzma - NAHA, Nibedita. Impact of heavy
metal-based nanomaterials on environment and health: Small things having big
impacts! In *Implications of Nanoecotoxicology on Environmental Sustainability*,
2023-02-17, pp. 224-277. Dostupné na: <https://doi.org/10.4018/978-1-6684-5533->

3.ch011, Registrované v: SCOPUS

9. [1.2] SHEKH, Kamran - ANSARI, Rais A. - OMIDI, Yadollah - SHAKIL, Saghir A. Molecular impacts of advanced nanomaterials at genomic and epigenomic levels. In *Impact of Engineered Nanomaterials in Genomics and Epigenomics*, 2023-06-26, pp. 5-39. Dostupné na:

<https://doi.org/10.1002/9781119896258.ch2>, Registrované v: SCOPUS

ADCA335 MAJOROŠ, Milan - JANŠÁK, Lubomil - ZANNELLA, S. - CURCIO, F. - LA CASCIA, P. - OTTOBONI, V. - FRIEND, C.M. - LELAY, L. - GLOWACKI, B.A. - CAMPBELL, A.M. Temperature dependence of transport ac losses in Bi-2223/Ag multifilamentary tapes. In *Physica C : Superconductivity and Its Applications*, 1998, vol. 310, p. 6-11. (1997: 2.199 - IF, karentované - CCC). (1998 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.

Citácie:

1. [1.1] MAHAMED, M. - YAZDANI-ASRAMI, M. - BEHJAT, V. - YAZDANI, A. - SHARIFZADEH, M. Impact of Perlator on the cooling liquid flow and hottest point temperature of superconducting windings in HTS transformer. In *SUPERCONDUCTIVITY. SEP 2022*, vol. 3. Dostupné na:

<https://doi.org/10.1016/j.supcon.2022.100021>, Registrované v: WOS

ADCA336 MAJOROŠ, Milan - SUMPTION, M.D. - SUSNER, M.A. - COLLINGS, E.W. - ŠOUC, Ján - GÖMÖRY, Fedor - VOJENČIAK, Michal - FISHER, L.M. - KALINOV, A.V. - VOLOSHIN, I.F. AC Magnetization Loss of a YBCO Coated Conductor Measured Using Three Different Techniques. In *IEEE Transactions on Applied Superconductivity*, 2011, vol. 21, p. 3293-3296. (2010: 1.035 - IF, Q2 - JCR, 0.473 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na:

<https://doi.org/10.1109/TASC.2010.2087000>

Citácie:

1. [1.1] SKARBA, M. - PEKARČIKOVÁ, M. - FROLEK, L. - CUNINKOVÁ, E. - NECPAL, M. - SIMON, S. Striating of REBCO-Coated Conductors for AC Loss Reduction. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, DEC 2023*, vol. 33, no. 9. Dostupné na:

<https://doi.org/10.1109/TASC.2023.3327966>, Registrované v: WOS

ADCA337 MARSO, M. - FOX, A. - HEIDELBERG, G. - KORDOŠ, Peter - LÜTH, Hans. Comparison of AlGaIn/GaN MSM varactor diodes based on HFET and MOSHEFT layer structures. In *IEEE Electron Devices Letters*, 2006, vol. 27, p. 945-947. (2005: 2.825 - IF, Q1 - JCR, 2.432 - SJR, Q1 - SJR). ISSN 0741-3106.

Citácie:

1. [1.1] HSIEH, Y.L. - LO, H.Z. - NEE, T.E. - CHANG, C.N. - YANG, C.H. Study on epitaxial structure and substrate material variations for improving electrical reliability of the MSM AlGaIn/GaN 2DEG varactors. In *MICROELECTRONICS RELIABILITY. ISSN 0026-2714, MAR 2023*, vol. 142. Dostupné na:

<https://doi.org/10.1016/j.microrel.2023.114905>, Registrované v: WOS

ADCA338 MARSO, M. - HEIDELBERG, G. - INDLEKOFER, K.M. - BERNÁT, J. - FOX, A. - KORDOŠ, Peter - LUTH, H. Origin of improved RF performance of AlGaIn/GaN MOSHFETs compared to HFETs. In *IEEE Transactions on Electron Devices*, 2006, vol. 53, p. 1517-1523. (2005: 2.105 - IF, Q1 - JCR, 1.738 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0018-9383.

Citácie:

1. [1.1] BARATOV, A. - IGARASHI, T. - ISHIGURO, M. - MAEDA, S. - TERAJ, S. - KUZUHARA, M. - ASUBAR, J.T. Low thermal budget V/Al/Mo/Au ohmic contacts for improved performance of AlGaIn/GaN MIS-HEMTs. In *JAPANESE JOURNAL OF APPLIED PHYSICS. ISSN 0021-4922, NOV 1 2023*, vol. 62, no.

11. Dostupné na: <https://doi.org/10.35848/1347-4065/ad057a>, Registrované v: WOS

- ADCA339 MARTINEZ, E. - ANGUREL, L.A. - SCHLACHTER, S. - KOVÁČ, Pavol. Transport and magnetic critical currents of Cu-stabilized monofilamentary MgB₂ conductors. In Superconductor Science and Technology, 2009, vol. 22, 015014. (2008: 1.847 - IF, Q2 - JCR, 1.867 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:
1. [1.1] QIAO, Y.K. - RINDFLEISCH, M. - TOMSIC, M. - SUMPTION, M.D. - AMEMIYA, N. - BADCOCK, R.A. - STRICKLAND, N.M. - JIANG, Z.A. *Ic measurement of twisted multifilamentary MgB₂ wires with non-magnetic sheath over a wide range of temperatures and fields. In SUPERCONDUCTIVITY. DEC 2023, vol. 8. Dostupné na: <https://doi.org/10.1016/j.supcon.2023.100072>, Registrované v: WOS*
- ADCA340 MATKOVIČOVÁ, Z. - ŠTRBÍK, Vladimír - PLESCH, G. - VALERIÁNOVÁ, Michaela - LAURENČÍKOVÁ, Agáta. TI-based superconducting films prepared by aerosol spray deposition and thallinated in an open system. In Central European Journal of Physics, 2007, vol. 5, p. 398-404. (2006: 0.811 - IF, Q3 - JCR, karentované - CCC). (2007 - Current Contents, WOS, SCOPUS).
- Citácie:
1. [1.1] LIANG, X.L. - NIU, Z.H. - LI, T.C. - CHEN, J.H. - ZHAO, H.T. - YANG, Q. - HE, M. - FENG, M. - ZENG, C. - JI, L. *A new technique to achieve thick Tl₂Ba₂CaCu₂O₈ films for advanced applications. In CERAMICS INTERNATIONAL. ISSN 0272-8842, MAY 15 2023, vol. 49, no. 10, p. 15665-15672. Dostupné na: <https://doi.org/10.1016/j.ceramint.2023.01.158>, Registrované v: WOS*
- ADCA341 MATYS, M. - STOKLAS, Roman - BLAHO, Michal - ADAMOWICZ, J.B. Origin of positive fixed charge at insulator/AlGaN interfaces and its control by AlGaN composition. In Applied Physics Letters, 2017, vol. 110, art. no. 243505. (2016: 3.411 - IF, Q1 - JCR, 1.673 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/1.4986482>
- Citácie:
1. [1.1] QIU, S.Y. - GONG, J.R. - ZHOU, J. - NG, T.K. - SINGH, R. - SHEIKHI, M. - OOI, B.S. - MA, Z.Q. *Interfacial band parameters of ultrathin ALD-ZrO₂ on Ga-polar GaN through XPS measurements. In AIP ADVANCES. MAY 1 2023, vol. 13, no. 5. Dostupné na: <https://doi.org/10.1063/5.0145286>, Registrované v: WOS*
2. [1.1] YANG, Y.N. - FAN, R. - ZHANG, P.H. - WANG, L.Y. - PAN, M.L. - WANG, Q. - XIE, X.L. - XU, S.S. - WANG, C. - WU, C.L. - XU, M. - JIN, J. - ZHANG, D.W. *In Situ H-Radical Surface Treatment on Aluminum Gallium Nitride for High-Performance Aluminum Gallium Nitride/Gallium Nitride MIS-HEMTs Fabrication. In MICROMACHINES. JUL 2023, vol. 14, no. 7. Dostupné na: <https://doi.org/10.3390/mi14071278>, Registrované v: WOS*
- ADCA342 MATYS, M. - STOKLAS, Roman - KUZMÍK, Ján - ADAMOWICZ, J.B. - YATABE, Z. - HASHIZUME, T. Characterization of capture cross sections of interface states in dielectric/III-nitride heterojunction structures. In Journal of Applied Physics, 2016, vol. 119, art. no. 205304. (2015: 2.101 - IF, Q2 - JCR, 0.821 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/1.4952708>
- Citácie:
1. [1.1] AL AHMED, S.R. *Investigation on the Performance Enhancement of*

Heterojunction SnS Thin-Film Solar Cell with a Zn3P2 Hole Transport Layer and a TiO2 Electron Transport Layer. In ENERGY & FUELS. ISSN 0887-0624, DEC 28 2023, vol. 38, no. 2, p. 1462-1476. Dostupné na:

<https://doi.org/10.1021/acs.energyfuels.3c03719>, Registrované v: WOS

2. [1.1] KHATUN, M. - HOSEN, A. - AL AHMED, S.R. *Evaluating the performance of efficient Cu2NiSnS4 solar cell-A two stage theoretical attempt and comparison to experiments. In HELIYON. OCT 2023, vol. 9, no. 10. Dostupné na:*

<https://doi.org/10.1016/j.heliyon.2023.e20603>, Registrované v: WOS

3. [1.1] ZHANG, H. - ZHENG, X.F. - WANG, X.H. - ZHU, T. - WANG, Y.Z. - MA, X.H. - HAO, Y. *Characterization of different trap states in AlGaIn/GaN MIS-HEMTs under high reverse gate stress. In MICRO AND NANOSTRUCTURES. JUN 2023, vol. 178. Dostupné na:*

<https://doi.org/10.1016/j.micrna.2023.207579>, Registrované v: WOS

ADCA343 MATYS, M. - ADAMOWICZ, J.B. - DOMANOWSKA, A. - MICHALEWICZ, A. - STOKLAS, Roman - AKAZAWA, M. - YATABE, Z. - HASHIZUME, T. *On the origin of interface states at oxide/III-nitride heterojunction interfaces. In Journal of Applied Physics, 2016, vol. 120, no. 225305. (2015: 2.101 - IF, Q2 - JCR, 0.821 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/1.4971409>*

Citácie:

1. [1.1] BLANTON, E.W. - PRUSNICK, T.A. - GREEN, A.J. - GLAVIN, N. - SNURE, M. *Effect of surface potential pinning on strain behavior of AlGaIn/GaN device structures. In APPLIED PHYSICS LETTERS. ISSN 0003-6951, APR 24 2023, vol. 122, no. 17. Dostupné na: <https://doi.org/10.1063/5.0132472>, Registrované v: WOS*

2. [1.1] MALLEM, S.P.R. - PUNEETHA, P. - LEE, D.Y. - KIM, Y. - KIM, H.J. - IM, K.S. - AN, S.J. *Carrier Trap and Their Effects on the Surface and Core of AlGaIn/GaN Nanowire Wrap-Gate Transistor. In NANOMATERIALS. JUL 2023, vol. 13, no. 14. Dostupné na: <https://doi.org/10.3390/nano13142132>, Registrované v: WOS*

3. [1.1] QIANG, L. *Modeling for ammonia gas concentration detection of GaN-based sensors. In MODERN PHYSICS LETTERS B. ISSN 0217-9849, SEP 20 2023, vol. 37, no. 26. Dostupné na: <https://doi.org/10.1142/S0217984923500926>, Registrované v: WOS*

4. [1.1] SU, H.K. - ZHANG, T. - XU, S.R. - TAO, H.C. - ZHANG, J.C. - HAO, Y. *Normally-Off p-Channel AlGaIn/GaN/AlGaIn MESFET With High Breakdown Voltage and Ultra-Low Interface State Density. In IEEE ELECTRON DEVICE LETTERS. ISSN 0741-3106, DEC 2023, vol. 44, no. 12, p. 1939-1942. Dostupné na: <https://doi.org/10.1109/LED.2023.3323497>, Registrované v: WOS*

5. [1.1] YOO, S.H. - TODOROVA, M. - NEUGEBAUER, J. - VAN DE WALLE, C.G. *Microscopic Origin of Polarization Charges at GaN/(Al,Ga)N Interfaces. In PHYSICAL REVIEW APPLIED. ISSN 2331-7019, JUN 12 2023, vol. 19, no. 6. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.19.064037>, Registrované v: WOS*

ADCA344 MATYS, M.** - NISHIGUCHI, K. - ADAMOWICZ, J.B. - KUZMÍK, Ján - HASHIZUME, T. *Enhancement of channel electric field in AlGaIn/GaN multi-nanochannel high electron mobility transistors. In Journal of Applied Physics, 2018, vol. 124, no. 224502. (2017: 2.176 - IF, Q2 - JCR, 0.739 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/1.5056194>*

Citácie:

1. [1.1] WANG, A.S. - ZENG, L.Y. - WANG, W. *Strain relaxation and self-heating*

- effects of fin AlGaIn/GaN HEMTs. In SEMICONDUCTOR SCIENCE AND TECHNOLOGY. ISSN 0268-1242, MAR 1 2023, vol. 38, no. 3. Dostupné na: <https://doi.org/10.1088/1361-6641/acb8d4>, Registrované v: WOS*
- ADCA345 MENGHESSO, G. - RAMPAZZO, F. - KORDOŠ, Peter - VERZELLESI, G. - ZANONI, E. Current-collapse and hot-electron-reliability characteristics of unpassivated GaN/AlGaIn/GaN HEMTs. In IEEE Transactions on Electron Devices, 2006, vol. 53, p. 2932. (2005: 2.105 - IF, Q1 - JCR, 1.738 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0018-9383.
- Citácie:
1. [1.1] ALIM, M.A. - JARNDAL, A. - GAQUIERE, C. - CRUPI, G. A study of DC and RF transconductance for different technologies of HEMT at low and high temperatures. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. ISSN 0957-4522, APR 2023, vol. 34, no. 10. Dostupné na: <https://doi.org/10.1007/s10854-023-10176-5>, Registrované v: WOS
 2. [1.1] BHARDWAJ, N. - UPADHYAY, B.B. - PARVEZ, B. - POHEKAR, P. - YADAV, Y. - SAHU, A. - PATIL, M. - BASAK, S. - SAHU, J. - SABIHA, F.S.A. - GANGULY, S. - SAHA, D. Improved RF-DC characteristics and reduced gate leakage in GaN MOS-HEMTs using thermally grown Nb2O5 gate dielectric. In PHYSICA SCRIPTA. ISSN 0031-8949, JAN 1 2023, vol. 98, no. 1. Dostupné na: <https://doi.org/10.1088/1402-4896/aca438>, Registrované v: WOS
 3. [1.1] CHAUDHURI, R.R. - GUPTA, A. - JOSHI, V. - MALIK, R.R. - GUPTA, S.D. - SHRIVASTAVA, M. Impact of Channel Electric Field Profile Evolution on Nanosecond Timescale Cyclic Stress-Induced Dynamic R_{ON} Behavior in AlGaIn/GaN HEMTs-Part II. In IEEE TRANSACTIONS ON ELECTRON DEVICES. ISSN 0018-9383, DEC 2023, vol. 70, no. 12, p. 6183-6189. Dostupné na: <https://doi.org/10.1109/TED.2023.3300652>, Registrované v: WOS
 4. [1.1] DU, C.L. - YE, R. - CAI, X.L. - DUAN, X.Y. - LIU, H.J. - ZHANG, Y. - QIU, G. - MI, M.H. A review on GaN HEMTs: nonlinear mechanisms and improvement methods. In JOURNAL OF SEMICONDUCTORS. ISSN 1674-4926, DEC 1 2023, vol. 44, no. 12. Dostupné na: <https://doi.org/10.1088/1674-4926/44/12/121801>, Registrované v: WOS
 5. [1.1] JOSHI, V. - CHAUDHURI, R.R. - GUPTA, S.D. - SHRIVASTAVA, M. Physical Insights Into Electron Trapping Mechanism in the Carbon-Doped GaN Buffer in AlGaIn/GaN HEMTs and Its Impact on Dynamic On-Resistance. In IEEE TRANSACTIONS ON ELECTRON DEVICES. ISSN 0018-9383, JUN 2023, vol. 70, no. 6, SI, p. 3011-3018. Dostupné na: <https://doi.org/10.1109/TED.2023.3269409>, Registrované v: WOS
 6. [1.2] Banu, N., Mondal, C.: Reduction of Current-Collapsing in Small Gate to Drain Length AlGaIn/GaN Super Hetero-Junction HEMT for High-Frequency Applications In Lecture Notes in Networks and Systems 690 LNNS, (2023) pp. 423-431, Registrované v: SCOPUS
 7. [1.2] Zhao, P., Zhao P., Zha, Z., Xiao, Q., Chen, J., Zhu, J., Fu, Z., Chen, Y.: Degradation Behavior and Mechanism of E-mode Cascode GaN HEMTs under Hydrogen Environment In International Conference on Power Energy Systems and Applications, ICoPESA 2023 Pages 728 - 732, Registrované v: SCOPUS
- ADCA346 MICHALCOVÁ, E.** - BEHULOVÁ, M. - VOJENČIAK, Michal - FROLEK, Lubomír - ŠOUC, Ján - SKARBA, M. - PEKARČÍKOVÁ, M. - DRIENOVSKÝ, M. - GÖMÖRY, Fedor. Structural modeling of REBCO coated conductor tapes in TORT cables. In IEEE Transactions on Applied Superconductivity, 2018, vol. 28, no. 4801105. (2017: 1.288 - IF, Q3 - JCR, 0.408 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na:

<https://doi.org/10.1109/TASC.2018.2807374>

Citácie:

1. [1.1] TANAKA, Y. - INOUE, M. - IWAKUMA, M. *Current Transport Characteristics for REBCO Tape in High Electric Field. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3270841>, Registrované v: WOS*

ADCA347

MIKULA, Marian - GRANČIČ, B. - ROCH, T. - PLECENIK, T. - VÁVRA, Ivo - DOBROČKA, Edmund - ŠATKA, A. - BURŠÍKOVÁ, Vilma - DRŽÍK, Milan - ZAHORAN, M. - PLECENIK, Andrej - KÚŠ, P. The influence of low-energy ion bombardment on the microstructure development and mechanical properties of TiBx coatings. In Vacuum, 2011, vol.85, no.9, p.866-870. (2010: 1.051 - IF, Q3 - JCR, 0.554 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0042-207X. Dostupné na: <https://doi.org/10.1016/j.vacuum.2010.12.011>

Citácie:

1. [1.1] FUGER, C. - HAHN, R. - HIRLE, A. - WOJCIK, T. - KUTROWATZ, P. - BOHRN, F. - HUNOLD, O. - POLCIK, P. - RIEDL, H. *Tissue phase affected fracture toughness of nano-columnar TiB_{2+z} thin films. In MATERIALS RESEARCH LETTERS. ISSN 2166-3831, AUG 3 2023, vol. 11, no. 8, p. 613-622. Dostupné na: <https://doi.org/10.1080/21663831.2023.2204120>, Registrované v: WOS*

2. [1.1] GONCHAROV, A. - YUNDA, A. - KOLINKO, I. - MAKSAKOVA, O. *STRUCTURAL REGULARITIES OF THE FORMATION OF NITRIDE AND BORIDE COATINGS BASED ON TRANSITION METALS. In HIGH TEMPERATURE MATERIAL PROCESSES. ISSN 1093-3611, 2023, vol. 27, no. 1, p. 31-52., Registrované v: WOS*

3. [1.1] GONCHAROV, O.A. - KOLINKO, I.S. - KORNICH, G.V. - KHOMENKO, O.V. - SHYROKORAD, D.V. *Structural Characteristics and Their Influence on the Properties of Transition Metal Nitride and Boride Films (Overview). In POWDER METALLURGY AND METAL CERAMICS. ISSN 1068-1302, SEP 2023, vol. 62, no. 5-6, p. 312-325. Dostupné na: <https://doi.org/10.1007/s11106-023-00395-0>, Registrované v: WOS*

ADCA348

MIKULICS, M. - STOKLAS, Roman - DADGAR, A. - GREGUŠOVÁ, Dagmar - NOVÁK, Jozef - GRÜTZMACHER, D. - KROST, A. - KORDOŠ, Peter.

InAlN/GaN/Si heterostructures and field-effect transistors with lattice matched and tensely or compressively strained InAlN. In Applied Physics Letters, 2010, vol. 97, 173505. (2009: 3.554 - IF, 2.826 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, SCOPUS). ISSN 0003-6951. Dostupné na:

<https://doi.org/10.1063/1.3507885>

Citácie:

1. [1.1] SIDIKEJIANG, S. - HENNING, P. - ROSSOW, U. - BREMERS, H. - SCHOLZ, F. - HANGLEITER, A. *Polarization anisotropy and valence band ordering in semipolar (11(2)over-tilde2) AlInN/GaN heterostructures. In PHYSICAL REVIEW B. ISSN 2469-9950, JAN 5 2023, vol. 107, no. 4. Dostupné na: <https://doi.org/10.1103/PhysRevB.107.045202>, Registrované v: WOS*

ADCA349

MIKULICS, M. - MARSO, M. - LEPSA, M. - GRÜTZMACHER, D. - KORDOŠ, Peter. Output power improvement in MSM photomixers by modified finger contacts configuration. In IEEE Photonics Technology Letters, 2009, vol. 21, p. 146-148. (2008: 2.173 - IF, Q1 - JCR, 1.975 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents).

Citácie:

1. [1.2] ANUKIRUTHIKA, T. - JAYAS, Digvir S. *Terahertz Technology:*

Principles and Applications in the Agri-Food Industry. In Terahertz Technology: Principles and Applications in the Agri-Food Industry, 2023-01-01, pp. 1-271. Dostupné na: <https://doi.org/10.1201/9781003197010>, Registrované v: SCOPUS

ADCA350 MIKULICS, M. - MARSO, M. - WU, S.C. - FOX, A. - LEPSA, M. - GRÜTZMACHER, D. - SOBOLEWSKI, R. - KORDOŠ, Peter. Sensitivity enhancement of metal-semiconductor-metal photodetectors on low-temperature-grown GaAs using alloyed contacts. In IEEE Photonics Technology Letters, 2008, vol. 20, p. 1054-1056. (2007: 2.015 - IF, Q1 - JCR, 2.224 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents).

Citácie:

1. [1.2] CURRIE, Marc. Low-temperature grown gallium arsenide (LT-GaAs) high-speed detectors. In Photodetectors: Materials, Devices and Applications, 2023-01-01, pp. 293-326. Dostupné na: <https://doi.org/10.1016/B978-0-08-102795-0.00009-8>, Registrované v: SCOPUS

ADCA351 MIKULICS, M. - HARTDEGEN, H. - GREGUŠOVÁ, Dagmar - SOFER, Z. - ŠIMEK, P. - TRELLENKAMP, St. - GRÜTZMACHER, D. - LUTH, H. - KORDOŠ, Peter - MARSO, M. Non-uniform distribution of induced strain in gate recessed AlGaIn/GaN structure evaluated by micro PL measurements. In Semiconductor Science and Technology, 2012, vol. 27, no. 105008. (2011: 1.723 - IF, Q1 - JCR, 1.008 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0268-1242. Dostupné na: <https://doi.org/10.1088/0268-1242/27/10/105008>

Citácie:

1. [1.1] CHEN, Y. - SHI, Z.M. - ZHANG, S.L. - YUE, Y.Y. - ZANG, H. - BEN, J.W. - JIANG, K. - JIA, Y.P. - SUN, X.J. - LI, D.B. Centimeter-Transferable III-Nitride Membrane Enabled by Interfacial Adhesion Control for a Flexible Photosensitive Device. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, JUN 22 2023, vol. 15, no. 26, p. 31954-31965. Dostupné na:

<https://doi.org/10.1021/acsami.3c04213>, Registrované v: WOS

ADCA352 MIKULICS, M.** - KORDOŠ, Peter - GREGUŠOVÁ, Dagmar - SOFER, Z. - WINDEN, A. - TRELLENKAMP, St. - MOERS, J. - MAYER, J. - HARDTDEGEN, H.**. Conditioning nano-LEDs in arrays by laser-micro-annealing: the key to their performance improvement. In Applied Physics Letters, 2021, vol. 118, no. 04310. (2020: 3.791 - IF, Q2 - JCR, 1.182 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0038070>

Citácie:

1. [1.1] FU, K. - WANG, B.J. - FU, J.W. - YAN, J.B. - LIU, P.Z. - WANG, Y.J. Touchless Input/Output Interface for Device-to-Device Communication. In ACS OMEGA. ISSN 2470-1343, SEP 14 2023, vol. 8, no. 38, p. 35336-35342. Dostupné na: <https://doi.org/10.1021/acsomega.3c05252>, Registrované v: WOS

2. [1.1] GONG, Y.F. - GONG, Z. Laser-Based Micro/Nano-Processing Techniques for Microscale LEDs and Full-Color Displays. In ADVANCED MATERIALS TECHNOLOGIES. ISSN 2365-709X, MAR 2023, vol. 8, no. 5. Dostupné na: <https://doi.org/10.1002/admt.202200949>, Registrované v: WOS

3. [1.1] OLIVA, M. - KAGANER, V. - PUDELSKI, M. - MEISTER, S. - TAHRAOUI, A. - GEELHAAR, L. - BRANDT, O. - AUZELLE, T. A route for the top-down fabrication of ordered ultrathin GaN nanowires. In NANOTECHNOLOGY. ISSN 0957-4484, MAY 14 2023, vol. 34, no. 20. Dostupné na: <https://doi.org/10.1088/1361-6528/acb949>, Registrované v: WOS

4. [1.1] QI, Z.Q. - WANG, L.N. - LIANG, Y.Z. - LIU, P.Z. - ZHU, H.B. - WANG, Y.J. Deep-ultraviolet light communication in sunlight using 275-nm LEDs. In

APPLIED PHYSICS LETTERS. ISSN 0003-6951, OCT 16 2023, vol. 123, no. 16. Dostupné na: <https://doi.org/10.1063/5.0169319>, Registrované v: WOS 5. [1.2] JI, Liangzheng - LI, Zaihuan - WANG, Xin - ZHANG, Guoqi - ZHANG, Jing - LIU, Pan. Polymer Reinforced Solder Paste for Improving Impact Energy Absorption Capability in Micro LED Laser-Assisted Mass Transfer. In 2023 20th China International Forum on Solid State Lighting and 2023 9th International Forum on Wide Bandgap Semiconductors, SSLCHINA: IFWS 2023, 2023-01-01, pp. 365-368. Dostupné na: <https://doi.org/10.1109/SSLChinaIFWS60785.2023.10399660>, Registrované v: SCOPUS

ADCA353 MIKULICS, M.** - KORDOŠ, Peter - GREGUŠOVÁ, Dagmar - GAŽI, Štefan - NOVÁK, Jozef - SOFER, Z. - MAYER, J. - HARTDEGEN, H. Local increase in compressive strain (GaN) in gate recessed AlGaIn/GaN MISHFET structures induced by an amorphous AlN dielectric layer. In Semiconductor Science and Technology, 2021, vol. 36, no. 095040. (2020: 2.352 - IF, Q3 - JCR, 0.712 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0268-1242. Dostupné na: <https://doi.org/10.1088/1361-6641/ac1a28>

Citácie:

1. [1.1] HUANG, J.H. - LIU, W. - CHENG, X. - MIRANDA, A. - DWIR, B. - RUDRA, A. - KAPON, E. - WONG, C.W. Single site-controlled inverted pyramidal InGaAs QD-nanocavity operating at the onset of the strong coupling regime. In JOURNAL OF APPLIED PHYSICS. ISSN 0021-8979, DEC 14 2023, vol. 134, no. 22. Dostupné na: <https://doi.org/10.1063/5.0175055>, Registrované v: WOS

ADCA354 MIRANDA, E.** - FRÖHLICH, Karol. Compact modeling of complementary resistive switching devices using memdiodes. In IEEE Transactions on Electron Devices, 2019, vol. 66, p. 2831-2836. (2018: 2.704 - IF, Q2 - JCR, 0.853 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0018-9383. Dostupné na: <https://doi.org/10.1109/TED.2019.2913322>

Citácie:

1. [1.1] GUITARRA, S. - TACO, R. - GAVILÁNEZ, M. - YÉPEZ, J. - ESPINOZA, U. Assessment of a universal logic gate and a full adder circuit based on CMOS-memristor technology. In SOLID-STATE ELECTRONICS. ISSN 0038-1101, SEP 2023, vol. 207. Dostupné na: <https://doi.org/10.1016/j.sse.2023.108704>, Registrované v: WOS
2. [1.1] LI, C.Y. - HSU, T.H. - HUANG, C.L. Reliable RRAM devices utilizing sol-gel derived amorphous Ce₂Ti₂O₇ thin films. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, OCT 25 2023, vol. 961. Dostupné na: <https://doi.org/10.1016/j.jallcom.2023.170987>, Registrované v: WOS
3. [1.1] WANG, L. - ZUO, Z. - WEN, D.Z. Realization of Artificial Nerve Synapses Based on Biological Threshold Resistive Random Access Memory. In ADVANCED BIOLOGY. ISSN 2701-0198, JUN 2023, vol. 7, no. 6. Dostupné na: <https://doi.org/10.1002/adbi.202200298>, Registrované v: WOS

ADCA355 MIRANDA, E.** - MUÑOZ-GORRIZ, J. - SUÑE, J. - FRÖHLICH, Karol. SPICE model for the current-voltage characteristic of resistive switching devices including the snapback effect. In Microelectronic Engineering, 2019, vol. 215, no. 110998. (2018: 1.654 - IF, Q3 - JCR, 0.561 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0167-9317. Dostupné na: <https://doi.org/10.1016/j.mee.2019.110998>

Citácie:

1. [1.1] ATHENA, F.F. - VOGEL, E.M. Describing the analog resistance change of HfO_x-based neuromorphic synapses using a compact series trap-assisted

- tunneling and Ohmic conduction model. In APPLIED PHYSICS LETTERS. ISSN 0003-6951, OCT 16 2023, vol. 123, no. 16. Dostupné na: <https://doi.org/10.1063/5.0163566>, Registrované v: WOS*
- ADCA356 MISJÁK, F. - NAGY, K.H. - LOBOTKA, Peter - RADNÓCZI, G. Electron scattering mechanisms in Cu-Mn films for interconnect applications. In Journal of Applied Physics, 2014, vol. 116, 083507. (2013: 2.185 - IF, Q2 - JCR, 1.165 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/1.4893718>
- Citácie:
- [1.1] HUAN, J. - WU, Z.T. - WANG, Q.M. - ZHANG, S.H. - KWON, S.H. A Comparative Investigation on the Microstructure and Thermal Resistance of W-Film Sensor Using dc Magnetron Sputtering and High-Power Pulsed Magnetron Sputtering. In MAGNETOCHEMISTRY. APR 2023, vol. 9, no. 4. Dostupné na: <https://doi.org/10.3390/magnetochemistry9040097>, Registrované v: WOS
 - [1.1] LEE, W.J. - LEE, S.S. - SOHN, S.H. - CHOI, Y. - PARK, I. Persistent Photoconductivity Control in Zn-Doped SnO₂ Thin Films for the Performance Enhancement of Solar-Blind Ultraviolet Photodetectors. In ACS PHOTONICS. ISSN 2330-4022, OCT 31 2023, vol. 10, no. 11, p. 3901-3914. Dostupné na: <https://doi.org/10.1021/acsp Photonics.3c00687>, Registrované v: WOS
 - [1.1] USTAD, R.E. - CHAVAN, V.D. - KIM, H. - SHIN, M.H. - KIM, S.K. - CHOI, K.K. - KIM, D.K. Thermal, Mechanical, and Electrical Stability of Cu Films in an Integration Process with Photosensitive Polyimide (PSPI) Films. In NANOMATERIALS. OCT 2023, vol. 13, no. 19. Dostupné na: <https://doi.org/10.3390/nano13192642>, Registrované v: WOS
- ADCA357 MITRÓOVÁ, Zuzana - TOMAŠOVIČOVÁ, Natália - TIMKO, Milan - KONERACKÁ, Martina - KOVÁČ, Jozef - JADZYN, Jan - VÁVRA, Ivo - ÉBER, Nándor - TÓTH-KATONA, Tibor - BEAUGNON, Eric - CHAUD, Xavier - KOPČANSKÝ, Peter. The sensitivity of liquid crystal doped with functionalized carbon nanotubes to external magnetic fields. In New Journal of Chemistry, 2011, vol. 35, no. 6, p. 1260-1264. (2010: 2.631 - IF, Q2 - JCR, 1.299 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, WOS, SCOPUS). ISSN 1144-0546. Dostupné na: <https://doi.org/10.1039/c1nj20017h>
- Citácie:
- [1.1] PETROV, D.A. Liquid-crystal composites of carbon nanotubes in a magnetic field: Bridging continuum theory and a molecular-statistical approach. In PHYSICAL REVIEW E. ISSN 2470-0045, MAY 17 2023, vol. 107, no. 5. Dostupné na: <https://doi.org/10.1103/PhysRevE.107.054701>, Registrované v: WOS
- ADCA358 MOEREKE, J. - ŤAPAJNA, Milan - UREN, M.J. - PEI, Y. - MISHRA, Umesh K. - KUBALL, M. Effects of gate shaping and consequent process changes on AlGaIn/GaN HEMT reliability. In Physica status solidi A. Applications and materials science, 2013, vol. 209, p. 2646-2652. (2012: 1.469 - IF, Q2 - JCR, 0.866 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1862-6300. Dostupné na: <https://doi.org/10.1002/pssa.201228395>
- Citácie:
- [1.1] WU, N.T. - XING, Z.H. - LI, S.J. - LUO, L. - ZENG, F.Y. - LI, G.Q. GaN-based power high-electron-mobility transistors on Si substrates: from materials to devices. In SEMICONDUCTOR SCIENCE AND TECHNOLOGY. ISSN 0268-1242, JUN 1 2023, vol. 38, no. 6. Dostupné na: <https://doi.org/10.1088/1361-6641/acca9d>, Registrované v: WOS
- ADCA359 MORVIC, Marian - BETKO, Július. Planar Hall effect in Hall sensors made from InP/InGaAs heterostructure. In Sensors and Actuators A, 2005, vol. 120, p. 130-133.

Citácie:

1. [1.2] RIPKA, P. - ARAFAT, M. M. *Magnetic Sensors: Principles and Applications. In Encyclopedia of Materials: Electronics, 2023-01-01, 1-3, pp. V3-14. Dostupné na: <https://doi.org/10.1016/B978-0-12-819728-8.00137-6>, Registrované v: SCOPUS*

ADCA360 MOSNÁČEK, Jaroslav - LUKÁČ, Ivan - CHROMIK, Štefan - KOSTIČ, Ivan - HRDLOVIČ, Pavol. Network formation of a phenyl vinyl ketone copolymer with 4-vinylbenzil and its photodecrosslinking in films. In *Journal of Polymer Science. Part A - polymer chemistry*, 2004, vol. 42, no. 3, p. 765-771. (2003: 2.226 - IF, karentované - CCC). (2004 - Current Contents). ISSN 0887-624X. Dostupné na: <https://doi.org/10.1002/pola.10860>

Citácie:

1. [1.1] PAL, D. - KONAR, D. - SUMERLIN, B.S. *Poly(Vinyl Ketones): New Directions in Photodegradable Polymers. In MACROMOLECULAR RAPID COMMUNICATIONS. ISSN 1022-1336, AUG 2023, vol. 44, no. 15. Dostupné na: <https://doi.org/10.1002/marc.202300126>, Registrované v: WOS*

ADCA361 MOŠKO, Martin - KÁLNA, Karol. Carrier capture into a GaAs quantum well with a separate confinement region: comment on quantum and classical aspects. In *Semiconductor Science and Technology*, 1999, vol. 14, p. 790-796. (1998: 1.340 - IF, karentované - CCC). (1999 - Current Contents). ISSN 0268-1242.

Citácie:

1. [1.1] KUMAR, M. - HSU, S.J. - HO, S.Y. - CHANG, S.W. - WU, C.H. *Current Gain Enhancement of Heterojunction Bipolar Light-Emitting Transistors Using Staircase InGaAs Quantum Well. In IEEE TRANSACTIONS ON ELECTRON DEVICES. ISSN 0018-9383, OCT 2023, vol. 70, no. 10, p. 5177-5183. Dostupné na: <https://doi.org/10.1109/TED.2023.3305355>, Registrované v: WOS*

ADCA362 MOŠKOVÁ, Antónia - MOŠKO, Martin - TÓBIK, Jaroslav. Theoretical study of persistent current in a nanoring made of a band insulator. In *Physica status solidi B. Basic solid state physics*, 2013, vol. 250, p. 147-159. (2012: 1.489 - IF, Q3 - JCR, 0.897 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0370-1972. Dostupné na: <https://doi.org/10.1002/pssb.201248066>

Citácie:

1. [1.1] TEHRANI, D.H.T. - SOLAIMANI, M. *Persistent currents and electronic properties of Mandelbrot quantum rings. In SCIENTIFIC REPORTS. ISSN 2045-2322, APR 7 2023, vol. 13, no. 1. Dostupné na: <https://doi.org/10.1038/s41598-023-32905-w>, Registrované v: WOS*

ADCA363 MRKÝVKOVÁ, Nad'a, Tesařová** - NÁDAŽDY, Peter - HODAS, Martin - CHAI, J. - WANG, S. - CHI, D. - SOJKOVÁ, Michaela - HULMAN, Martin - CHUMAKOV, A. - KONOVALOV, O. - HINDERHOFER, A. - JERGEL, Matej - MAJKOVÁ, Eva - ŠIFFALOVIC, Peter - SCHREIBER, F. Simultaneous monitoring of molecular thin film morphology and crystal structure by x-ray scattering. In *Crystal Growth & Design*, 2020, vol. 20, no. 8, p. 5269-5276. (2019: 4.089 - IF, Q1 - JCR, 1.004 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1528-7483. Dostupné na: <https://doi.org/10.1021/acs.cgd.0c00448>

Citácie:

1. [1.1] KING, Benjamin - RADFORD, Chase L. - VEBBER, Mario C. - RONNASI, Bahar - LESSARD, Benoit H. *Not Just Surface Energy: The Role of Bis(pentafluorophenoxy) Silicon Phthalocyanine Axial Functionalization and Molecular Orientation on Organic Thin-Film Transistor Performance. In ACS APPLIED MATERIALS & INTERFACES, 2023, vol. 15, no. 11, pp. 14937-14947. ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.2c22789>, Registrované v: WOS*

ADCA364 MRKÝVKOVÁ, Nad'a, Tesařová** - CERNESCU, A. - FUTERA, Z. - NEBOJSA, A. - DUBROKA, A. - SOJKOVÁ, Michaela - HULMAN, Martin - MAJKOVÁ, Eva - JERGEL, Matej - ŠIFFALOVÍČ, Peter - SCHREIBER, F. Nanoimaging of orientational defects in semiconducting organic films. In *Journal of Physical Chemistry C*, 2021, vol. 125, no. 17, p. 9229-9235. (2020: 4.126 - IF, Q2 - JCR, 1.401 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/acs.jpcc.1c00059>

Citácie:

1. [1.1] CHEVIGNY, Romain - SITSANIDIS, Efstratios D. - SCHIRMER, Johanna - HULKKO, Eero - MYLLYPERKIO, Pasi - NISSINEN, Maija - PETTERSSON, Mika. Nanoscale Probing of the Supramolecular Assembly in a Two-Component Gel by Near-Field Infrared Spectroscopy. In *CHEMISTRY-A EUROPEAN JOURNAL*, 2023, vol. 29, no. 32, pp. ISSN 0947-6539. Dostupné na: <https://doi.org/10.1002/chem.202300155>, Registrované v: WOS

2. [1.1] DERY, Shahar - FRIEDMAN, Barak - SHEMA, Hadar - GROSS, Elad. Mechanistic Insights Gained by High Spatial Resolution Reactivity Mapping of Homogeneous and Heterogeneous (Electro)Catalysts. In *CHEMICAL REVIEWS*, 2023, vol. 123, no. 9, pp. 6003-6038. ISSN 0009-2665. Dostupné na: <https://doi.org/10.1021/acs.chemrev.2c00867>, Registrované v: WOS

3. [1.1] KAPS, Felix G. - KEHR, Susanne C. - ENG, Lukas M. Polarization Sensitivity in Scattering-Type Scanning Near-Field Optical Microscopy-Towards Nanoellipsometry. In *APPLIED SCIENCES-BASEL*, 2023, vol. 13, no. 18, pp. Dostupné na: <https://doi.org/10.3390/app131810429>, Registrované v: WOS

4. [1.1] WU, Yangfan - XU, Lihua - FAN, Yihang - ZHANG, Zhengjun - LIU, Wei - LI, Peng - QIU, Xiaohui. Formation of Anti-Etching Nanopatterns in Field-Emission Scanning Probe Lithography on Calixarene Films. In *JOURNAL OF PHYSICAL CHEMISTRY C*, 2023, vol. 127, no. 26, pp. 12593-12598. ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/acs.jpcc.3c02804>, Registrované v: WOS

ADCA365 MRUCZKIEWICZ, Michal** - GRUSZECKI, P. - KRAWCZYK, M. - GUSLIENKO, K.Y. Azimuthal spin-wave excitations in magnetic nanodots over the soliton background: Vortex, Bloch, and Néel-like skyrmions. In *Physical Review B*, 2018, vol. 97, no. 064418. (2017: 3.813 - IF, Q2 - JCR, 1.176 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.97.064418>

Citácie:

1. [1.1] GAO, Z.C. - WANG, F.F. - ZHAO, X.Y. - WANG, T. - HU, J.G. - YAN, P. Interplay between spin wave and magnetic vortex. In *PHYSICAL REVIEW B*. ISSN 2469-9950, JUN 13 2023, vol. 107, no. 21. Dostupné na: <https://doi.org/10.1103/PhysRevB.107.214418>, Registrované v: WOS

2. [1.1] LIU, X.J. - LI, Z.X. - WANG, Q. - YE, R. - YAN, P. Correlated gyrotropic motion of skyrmion clusters in ultrathin ferromagnetic nanodisks. In *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*. ISSN 0304-8853, APR 15 2023, vol. 572. Dostupné na: <https://doi.org/10.1016/j.jmmm.2023.170649>, Registrované v: WOS

3. [1.1] PARK, G. - KIM, S.K. Emergence of chaos in magnetic-field-driven skyrmions. In *PHYSICAL REVIEW B*. ISSN 2469-9950, NOV 28 2023, vol. 108, no. 17. Dostupné na: <https://doi.org/10.1103/PhysRevB.108.174441>, Registrované v: WOS

4. [1.1] VIGO-COTRINA, H. - GUZMÁN-ARANA, A. Elliptical $k\pi$ skyrmions in the presence of the anisotropic Dzyaloshinskii-Moriya interaction. In *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*. ISSN 0304-8853, NOV 1 2023,

vol. 585. Dostupné na: <https://doi.org/10.1016/j.jmmm.2023.171122>,

Registrované v: WOS

ADCA366

MRUCZKIEWICZ, Michal - KRAWCZYK, M. - GUSLIENKO, K.Y. Spin excitation spectrum in a magnetic nanodot with continuous transitions between the vortex, Bloch-type skyrmion, and Néel-type skyrmion states. In *Physical Review B*, 2017, vol. 95, no. 094414. (2016: 3.836 - IF, Q2 - JCR, 2.339 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.95.094414>

Citácie:

1. [1.1] DESPLAT, L. - DUPÉ, B. *Eigenmodes of magnetic skyrmion lattices*. In *PHYSICAL REVIEW B*. ISSN 2469-9950, APR 12 2023, vol. 107, no. 14.

Dostupné na: <https://doi.org/10.1103/PhysRevB.107.144415>, Registrované v: WOS

2. [1.1] HUANG, D.J. - LAI, Y.S. - SU, Y.H. *Theoretical studies of magnetic domain phase diagrams from micromagnetic simulation*. In *JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A*. ISSN 0734-2101, SEP 2023, vol. 41, no. 5. Dostupné na: <https://doi.org/10.1116/6.0002865>, Registrované v: WOS

3. [1.1] KRISHNANJANA, P.J. - PAIKARAY, B. - MURAPAKA, C. - HALDAR, A. *Giant tunability of microwave responses for current-driven skyrmions in a tapered nanostructure with notches*. In *JOURNAL OF PHYSICS D-APPLIED PHYSICS*. ISSN 0022-3727, AUG 17 2023, vol. 56, no. 33. Dostupné na: <https://doi.org/10.1088/1361-6463/acce48>, Registrované v: WOS

4. [1.1] LI, S. - LI, K.X. - LIU, Z.H. - ZHU, Q.Y. - ZHAO, C.B. - ZHANG, H. - SHI, X.Q. - WANG, J.L. - WANG, R.N. - LIAN, R.Q. - GONG, P.L. - JIN, C.D. *In-plane spin excitation of skyrmion bags*. In *CHINESE PHYSICS B*. ISSN 1674-1056, OCT 1 2023, vol. 32, no. 11. Dostupné na: <https://doi.org/10.1088/1674-1056/acd327>, Registrované v: WOS

5. [1.1] LIU, X.J. - LI, Z.X. - WANG, Q. - YE, R. - YAN, P. *Correlated gyrotropic motion of skyrmion clusters in ultrathin ferromagnetic nanodisks*. In *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*. ISSN 0304-8853, APR 15 2023, vol. 572. Dostupné na: <https://doi.org/10.1016/j.jmmm.2023.170649>, Registrované v: WOS

6. [1.1] SRIVASTAVA, T. - SASSI, Y. - AJEJAS, F. - VECCHIOLA, A. - YEMELI, I.N. - HURDEQUINT, H. - BOUZEHOUE, K. - REYREN, N. - CROS, V. - DEVOLDER, T. - KIM, J.V. - DE LOUBENS, G. *Resonant dynamics of three-dimensional skyrmionic textures in thin film multilayers*. In *APL MATERIALS*. ISSN 2166-532X, JUN 1 2023, vol. 11, no. 6. Dostupné na: <https://doi.org/10.1063/5.0150265>, Registrované v: WOS

7. [1.2] CHE, Renchao - PENG, Yong - TIAN, He. *Magnetism In-Situ TEM*. In *In-Situ Transmission Electron Microscopy, 2023-01-01*, pp. 187-219. Dostupné na: https://doi.org/10.1007/978-981-19-6845-7_7, Registrované v: SCOPUS

ADCA367

MRUCZKIEWICZ, Michal - GRACZYK, P. - LUPO, P. - ADEYEYE, A. - GUBBIOTTI, G. - KRAWCZYK, M. Spin-wave nonreciprocity and magnonic band structure in a thin permalloy film induced by dynamical coupling with an array of Ni stripes. In *Physical Review B*, 2017, vol. 96, no. 104411. (2016: 3.836 - IF, Q2 - JCR, 2.339 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.96.104411>

Citácie:

1. [1.1] SANTOS, O.A. - VAN WEES, B.J. *Magnon Confinement in an All-on-Chip YIG Cavity Resonator Using Hybrid YIG/Py Magnon Barriers*. In *NANO LETTERS*. ISSN 1530-6984, OCT 11 2023, vol. 23, no. 20, p. 9303-9309.

Dostupné na: <https://doi.org/10.1021/acs.nanolett.3c02388>, Registrované v: WOS
2. [1.1] YU, T. - LUO, Z.C. - BAUER, G.E.W. Chirality as generalized spin-orbit interaction in spintronics. In PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS. ISSN 0370-1573, APR 10 2023, vol. 1009, p. 1-115.

Dostupné na: <https://doi.org/10.1016/j.physrep.2023.01.002>, Registrované v: WOS

ADCA368

MRUCZKIEWICZ, Michal - KRAWCZYK, M. Influence of the Dzyaloshinskii-Moriya interaction on the FMR spectrum of magnonic crystals and confined structures. In Physical Review B, 2016, vol. 94, no. 024434. (2015: 3.718 - IF, Q1 - JCR, 2.377 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na:

<https://doi.org/10.1103/PhysRevB.94.024434>

Citácie:

1. [1.1] CAMLEY, R.E. - LIVESEY, K.L. Consequences of the Dzyaloshinskii-Moriya interaction. In SURFACE SCIENCE REPORTS. ISSN 0167-5729, AUG 2023, vol. 78, no. 3. Dostupné na: <https://doi.org/10.1016/j.surfrep.2023.100605>, Registrované v: WOS

2. [1.1] GHOSH, A. - TALAPATRA, A. - GOOLAUP, S. - LIM, S.T. Confined spin-wave characteristics in magnetic nanowire ensembles approaching the ultrathin regime. In PHYSICAL REVIEW APPLIED. ISSN 2331-7019, OCT 12 2023, vol. 20, no. 4. Dostupné na:

<https://doi.org/10.1103/PhysRevApplied.20.044034>, Registrované v: WOS

3. [1.1] POIMANOV, V.D. Emission of coherent spin waves from a helimagnetic layer embedded within a ferromagnetic matrix. In JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS. ISSN 0304-8853, NOV 1 2023, vol. 585.

Dostupné na: <https://doi.org/10.1016/j.jmmm.2023.171117>, Registrované v: WOS

4. [1.1] RANA, B. - OTANI, Y. Anisotropy of magnetic damping in Ta/CoFeB/MgO heterostructures. In SCIENTIFIC REPORTS. ISSN 2045-2322, MAY 26 2023, vol. 13, no. 1. Dostupné na: <https://doi.org/10.1038/s41598-023-35739-8>, Registrované v: WOS

5. [1.1] TACCHI, S. - FLORES-FARIAS, J. - PETTI, D. - BREVIS, F. - CATTONI, A. - SCARAMUZZI, G. - GIRARDI, D. - CORTÉS-ORTUÑO, D. - GALLARDO, R.A. - ALBISETTI, E. - CARLOTTI, G. - LANDEROS, P. Experimental Observation of Flat Bands in One-Dimensional Chiral Magnonic Crystals. In NANO LETTERS. ISSN 1530-6984, JUN 21 2023, vol. 23, no. 14, p. 6776-6783.

Dostupné na: <https://doi.org/10.1021/acs.nanolett.2c04215>, Registrované v: WOS

6. [1.1] TACCHI, S. - SILVANI, R. - KUEPFERLING, M. - SCARIONI, A.F. - SIEVERS, S. - SCHUMACHER, H.W. - DARWIN, E. - SYSKAKI, M.A. - JAKOB, G. - KLAUI, M. - CARLOTTI, G. Suppression of spin-wave nonreciprocity due to interfacial Dzyaloshinskii-Moriya interaction by lateral confinement in magnetic nanostructures. In PHYSICAL REVIEW B. ISSN 2469-9950, JUL 31 2023, vol.

108, no. 2. Dostupné na: <https://doi.org/10.1103/PhysRevB.108.024430>,

Registrované v: WOS

ADCA369

MRUCZKIEWICZ, Michal - GRUSZECKI, P. - ZELENT, M. - KRAWCZYK, M. Collective dynamical skyrmion excitations in a magnonic crystal. In Physical Review B, 2016, vol. 93, no. 174429. (2015: 3.718 - IF, Q1 - JCR, 2.377 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.93.174429>

Citácie:

1. [1.1] RUDZINSKI, W. - BARNAS, J. - DYRDAL, A. Spin waves in monolayers of transition-metal dichalcogenides with Dzyaloshinskii-Moriya interaction. In JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS. ISSN 0304-8853,

DEC 15 2023, vol. 588, B. Dostupné na:

<https://doi.org/10.1016/j.jmmm.2023.171463>, Registrované v: WOS

2. [1.1] SRIVASTAVA, T. - SASSI, Y. - AJEJAS, F. - VECCHIOLA, A. - YEMELI, I.N. - HURDEQUINT, H. - BOUZEHOUE, K. - REYREN, N. - CROS, V. - DEVOLDER, T. - KIM, J.V. - DE LOUBENS, G. Resonant dynamics of three-dimensional skyrmionic textures in thin film multilayers. In *APL MATERIALS*. ISSN 2166-532X, JUN 1 2023, vol. 11, no. 6. Dostupné na:

<https://doi.org/10.1063/5.0150265>, Registrované v: WOS

3. [1.1] ZHAO, R.Z. - HU, C.L. - JI, L.Z. - BO, L. - LI, Y.X. - ZHANG, J. - ZHANG, X.F. Reciprocal Ferromagnetic Resonant Behaviors Driven by Shear Strains in Isolated Skyrmions. In *PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS*. ISSN 1862-6254, APR 2023, vol. 17, no. 4. Dostupné na:

<https://doi.org/10.1002/pssr.202200471>, Registrované v: WOS

ADCA370

MURAKAMI, K. - ROMMEL, M. - HUDEC, Boris - ROSOVÁ, Alica - HUŠEKOVÁ, Kristína - DOBROČKA, Edmund - RAMMULA, R. - KASIKOV, A. - HAN, J.H. - LEE, W. - SONG, S.J. - PASKALEVA, A. - BAUER, A.J. - FREY, L. - FRÖHLICH, Karol - AARIK, J. - HWANG, C.S. Nanoscale characterization of TiO₂ films grown by atomic layer deposition on RuO₂ electrodes. In *ACS Applied Materials & Interfaces*, 2014, vol. 6, p. 2486. (2013: 5.900 - IF, Q1 - JCR, 1.979 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/am4049139>

Citácie:

1. [1.1] CLARAMUNT, S. - ARRESE, J. - RUIZ, A. - PORTI, M. - CIRERA, A. - NAFRIA, M. A Smart Measurement System for the Combined Nanoscale and Device Level Characterization of Electron Devices: Implementation Using Ink-Jet Printing Technologies. In *IEEE TRANSACTIONS ON NANOTECHNOLOGY*. ISSN 1536-125X, 2023, vol. 22, p. 28-35. Dostupné na:

<https://doi.org/10.1109/TNANO.2023.3234357>, Registrované v: WOS

ADCA371

MURPHY, J. - MULLINS, J.M. - BARNES, P.N. - HAUGAN, T.J. - LEVIN, G.A. - MAJOROŠ, Milan - SUMPTION, M.D. - COLLINGS, E.W. - POLÁK, Milan - MOZOLA, Pavol. Experiment setup for calorimetric measurements of losses in HTS coils due to AC current and external magnetic fields. In *IEEE Transactions on Applied Superconductivity*, 2013, vol. 23, p. 4701505. (2012: 1.199 - IF, Q2 - JCR, 0.575 - SJR, karentované - CCC). (2013 - Current Contents, SCOPUS). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2013.2237939>

Citácie:

1. [1.2] BALACHANDRAN, Thanatheepan - HARAN, Kiruba S. Instantaneous Loss Integration Method to Estimate AC Losses in Superconductors With Spatial and Time Harmonics. In *IEEE Transactions on Applied Superconductivity*, 2023-08-01, 33, 5, pp. ISSN 10518223. Dostupné na:

<https://doi.org/10.1109/TASC.2023.3254487>, Registrované v: SCOPUS

2. [1.2] BALACHANDRAN, Thanatheepan - ZHAO, Yiming - SIRIMANNA, Samith - XIAO, Jianqiao - HARAN, Kiruba S. Designing and Commissioning an Experimental Setup to Evaluate AC Losses in Superconductors Under Transverse Rotating Fields. In *IEEE Transactions on Applied Superconductivity*, 2023-08-01, 33, 5, pp. ISSN 10518223. Dostupné na:

<https://doi.org/10.1109/TASC.2023.3261840>, Registrované v: SCOPUS

3. [1.2] ENACHE, Dan - DUMITRU, George - DOBRIN, Ion - GUȚU, Mihai. A Measuring System for HTS Wires and Coils Properties at Low Temperatures. In *EEA Electrotehnica, Electronica, Automatica*, 2023-01-01, 71, 3, pp. 3-11. ISSN 15825175. Dostupné na: <https://doi.org/10.46904/eea.23.71.3.1108001>, Registrované v: SCOPUS

4. [1.2] IJAGBEMI, Kikelomo - SHUKLA, Dharmendra Prasad - KIM, Chul Han - TELIKAPALLI, Srikar - CHEETHAM, Peter - PAMIDI, Sastry. Evaluation of Frequency Loss Induced Quench Protection Prototype at 77 K Using HTS Coils. In *IEEE Transactions on Applied Superconductivity*, 2023-08-01, 33, 5, pp. ISSN 10518223. Dostupné na: <https://doi.org/10.1109/TASC.2023.3252497>, Registrované v: SCOPUS

ADCA372

MUSTONEN, K.** - HOFER, C. - KOTRUSZ, Peter - MARKEVICH, A. - HULMAN, Martin - MANGLER, C. - SUSI, T. - PENNYCOOK, T.J. - HRICOVÍNI, K. - RICHTER, C. - MEYER, J.C. - KOTAKOSKI, J.** - SKÁKALOVÁ, Viera. Toward exotic layered materials: 2D cuprous iodide. In *Advanced Materials*, 2022, vol. 34, no. 2106922. (2021: 32.086 - IF, Q1 - JCR, 8.663 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0935-9648. Dostupné na: <https://doi.org/10.1002/adma.202106922>

Citácie:

1. [1.1] CHENG, X. - SINGH, P.K. - MISHRA, A. - TIWARI, A. - REN, W. Wurtzite nanostructured piezoelectric devices. In *MATERIALS TODAY SUSTAINABILITY*. ISSN 2589-2347, SEP 2023, vol. 23. Dostupné na: <https://doi.org/10.1016/j.mtsust.2023.100474>, Registrované v: WOS

2. [1.1] FANG, D.Q. - ZHANG, H. - WANG, D.W. Two-Dimensional Topological Insulator Al₂SbBi with a Double-Layer Honeycomb Structure with Large Spin Splitting and Piezoelectricity for Spintronic Devices. In *ACS APPLIED NANO MATERIALS*. AUG 30 2023, vol. 6, no. 18, p. 16595-16603. Dostupné na: <https://doi.org/10.1021/acsnm.3c02786>, Registrované v: WOS

3. [1.1] JABBARI, V. - YURKIV, V. - GHORBANI, A. - MASHAYEK, F. - SHAHBAZIAN-YASSAR, R. Fast rate lithium metal batteries with long lifespan enabled by graphene oxide confinement. In *ENERGY ADVANCES*. MAY 18 2023, vol. 2, no. 5, p. 712-724. Dostupné na: <https://doi.org/10.1039/d3ya00083d>, Registrované v: WOS

4. [1.1] JI, D. - LEE, Y. - NISHINA, Y. - KAMIYA, K. - DAIYAN, R. - CHU, D. - WEN, X. - YOSHIMURA, M. - KUMAR, P. - ANDREEVA, D.V. - NOVOSELOV, K.S. - LEE, G.H. - JOSHI, R. - FOLLER, T. Angstrom-Confined Electrochemical Synthesis of Sub-Unit-Cell Non-Van Der Waals 2D Metal Oxides. In *ADVANCED MATERIALS*. ISSN 0935-9648, JUL 2023, vol. 35, no. 30. Dostupné na: <https://doi.org/10.1002/adma.202301506>, Registrované v: WOS

5. [1.1] KASIPOUR-RASTEKENARI, A. - ALAVI-RAD, H. Intrinsic electronic and optical properties of monolayer and Bilayer CuI under many-body effects. In *VACUUM*. ISSN 0042-207X, SEP 2023, vol. 215. Dostupné na: <https://doi.org/10.1016/j.vacuum.2023.112357>, Registrované v: WOS

6. [1.1] LIU, Q.A. - LIN, Y.C. - KRETSCHMER, S. - GHORBANI-ASL, M. - SOLÍS-FERNÁNDEZ, P. - SIAO, M.D. - CHIU, P.W. - AGO, H. - KRASHENINNIKOV, A.V. - SUENAGA, K. Molybdenum Chloride Nanostructures with Giant Lattice Distortions Intercalated into Bilayer Graphene. In *ACS NANO*. ISSN 1936-0851, NOV 26 2023, vol. 17, no. 23, p. 23659-23670. Dostupné na: <https://doi.org/10.1021/acsnano.3c06958>, Registrované v: WOS

7. [1.1] LIU, Y.T. - GAO, T.H. - QIAN, G.L. - TAN, X.Z. - DAI, S.L. - GAO, Y. - LI, L.X. - XIE, Q. - CHEN, Q. - WANG, J.J. Structural, electronic, and photocatalytic water splitting in two-dimensional monolayer MNXY (M/N = Al, Ga, X/Y = N, P, As) semiconductors: A first-principles perspective. In *PHYSICAL REVIEW B*. ISSN 2469-9950, DEC 26 2023, vol. 108, no. 24. Dostupné na: <https://doi.org/10.1103/PhysRevB.108.245424>, Registrované v: WOS

8. [1.1] MA, H. - WANG, X.S. - WANG, C. - ZHANG, H.R. - MA, X.L. - DENG, W.J. - CHEN, R.Q. - CAO, T.Q. - CHAI, Y.Q. - HE, Y.L. - JI, W. - LI, R. - CHEN,

- J.T. - JI, J.H. - RAO, W. - XUE, M.Q. Metal Halides for High-Capacity Energy Storage. In SMALL. ISSN 1613-6810, JAN 2023, vol. 19, no. 1. Dostupné na: <https://doi.org/10.1002/sml.202205071>, Registrované v: WOS*
- 9. [1.1] MA, M.Y. - CHEN, N.K. - WANG, D. - HAN, D. - SUN, H.B. - ZHANG, S.B. - LI, X.B. Defect physics in 2D monolayer I-VII semiconductor AgI. In MATERIALS TODAY NANO. ISSN 2588-8420, JUN 2023, vol. 22. Dostupné na: <https://doi.org/10.1016/j.mtnano.2023.100304>, Registrované v: WOS*
- 10. [1.1] PENG, B.Q. - ZHANG, Q. - ZHANG, Y.Y. - ZHAO, Y.M. - HOU, S.Y. - YANG, Y.Z. - DAI, F.F. - YI, R.B. - CHEN, R.Y. - WANG, J. - ZHANG, L. - CHEN, L. - ZHANG, S.L. - FANG, H.P. Unexpected Piezoresistive Effect, Room-Temperature Ferromagnetism, and Thermal Stability of 2D β -CuI Crystals in Reduced Graphene Oxide Membrane. In ADVANCED ELECTRONIC MATERIALS. ISSN 2199-160X, MAY 2023, vol. 9, no. 5. Dostupné na: <https://doi.org/10.1002/aelm.202201241>, Registrované v: WOS*
- 11. [1.1] SHAKOURIAN, M. - ALAVI-RAD, H. Optoelectronic properties of monolayer and bilayer AgI: role of many-body interactions. In JOURNAL OF COMPUTATIONAL ELECTRONICS. ISSN 1569-8025, FEB 2023, vol. 22, no. 1, p. 96-105. Dostupné na: <https://doi.org/10.1007/s10825-022-01984-9>, Registrované v: WOS*
- 12. [1.1] YU, J.H. - HE, C.Z. - HUO, J.R. - ZHAO, C.X. - YU, L.M. CO₂ capture, separation, and storage on MgSiP₂ monolayer: A first-principles study. In VACUUM. ISSN 0042-207X, JAN 2023, vol. 207. Dostupné na: <https://doi.org/10.1016/j.vacuum.2022.111693>, Registrované v: WOS*
- 13. [1.1] ZHANG, X.M. - GHORBANI-ASL, M. - ZHANG, Y.S. - KRASHENINNIKOV, A.V. Quasi-2D FCC lithium crystals inside defective bilayer graphene: insights from first-principles calculations. In MATERIALS TODAY ENERGY. ISSN 2468-6069, JUN 2023, vol. 34. Dostupné na: <https://doi.org/10.1016/j.mtener.2023.101293>, Registrované v: WOS*
- 14. [1.2] PANICKER, Swathy S. - RAJEEV, Sreenidhi Prabha - THOMAS, Vinoy. Impact of PVDF and its copolymer-based nanocomposites for flexible and wearable energy harvesters. In Nano-Structures and Nano-Objects, 2023-04-01, 34, pp. Dostupné na: <https://doi.org/10.1016/j.nanoso.2023.100949>, Registrované v: SCOPUS*

ADCA373 NAGASAKI, Y.** - SOLOVYOV, Mykola - GÖMÖRY, Fedor. Experimental and numerical investigation of shielding performance of superconducting magnetic shields using coated conductor tapes. In IEEE Transactions on Applied Superconductivity, 2018, vol. 28, no. 6601905. (2017: 1.288 - IF, Q3 - JCR, 0.408 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2018.2808374>

Citácie:

- 1. [1.1] ALVAREZ, A. - RIVERA, B. - PÉREZ, B. - SUÁREZ, P. Shielding Characteristics of Solenoidal Superconducting Screens Made From HTS Tape, for SFCL Applications. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 22835-22842. Dostupné na: <https://doi.org/10.1109/ACCESS.2023.3247749>, Registrované v: WOS*
- 2. [1.1] WANG, S.Y. - WANG, S.S. - YU, X. - XU, H. - LI, Y.Y. - JIANG, H.Y. - SUN, K.Y. Design and analysis of a hybrid magnetic shielding system: application for the magnetic non-destructive testing of circuits. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, MAR 1 2023, vol. 36, no. 3. Dostupné na: <https://doi.org/10.1088/1361-6668/acb090>, Registrované v: WOS*
- 3. [1.1] XU, X.P. - LIU, W. - HUANG, Y.J. - LI, W.C. - CHE, S.L. Magnetic shielding mechanism and structure design of composites at low frequency: A*

review. In *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*. ISSN 0304-8853, MAR 15 2023, vol. 570. Dostupné na:

<https://doi.org/10.1016/j.jmmm.2023.170509>, Registrované v: WOS

- ADCA374 NEILINGER, Katarína - ŠOLTÝS, Ján - MRUCZKIEWICZ, Michal - DÉRER, Ján - CAMBEL, Vladimír. Dual-cantilever magnetometer for study of magnetic interactions between patterned permalloy microstructures. In *Journal of Magnetism and Magnetic Materials*, 2017, vol. 444, p. 354-360. (2016: 2.630 - IF, Q2 - JCR, 0.699 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na:
<https://doi.org/10.1016/j.jmmm.2017.08.055>

Citácie:

1. [1.1] LI, X. - WANG, Z.L. - LEI, Z.Y. - DING, W. - SHI, X. - YAN, J.J. - KU, J.A. Magnetic characterization techniques and micromagnetic simulations of magnetic nanostructures: from zero to three dimensions. In *NANOSCALE*. ISSN 2040-3364, DEC 14 2023, vol. 15, no. 48, p. 19448-19468. Dostupné na:

<https://doi.org/10.1039/d3nr04493a>, Registrované v: WOS

- ADCA375 NEILINGER, Pavol** - ŠČEPKA, Tomáš - MRUCZKIEWICZ, Michal - DÉRER, Ján - MANCA, Daniel - DOBROČKA, Edmund - SAMARDAK, A.S. - GRAJCAR, Miroslav - CAMBEL, Vladimír. Ferromagnetic resonance study of sputtered Pt/Co/Pt multilayers. In *Applied Surface Science*, 2018, vol. 461, p. 202-205. (2017: 4.439 - IF, Q1 - JCR, 1.093 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na:
<https://doi.org/10.1016/j.apsusc.2018.06.172>

Citácie:

1. [1.1] LI, Minghua - LIU, Zhuoyao - CHEN, Yu - LIANG, Hongming - LIU, Yantai - JIA, Jingran - SHI, Hui - YU, Guanghua. The effect of Al_{sub}2/subO_{sub}3/sub insertions on the thermal stability and microstructure of Co/Pt multilayers. In *JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T*, 2023, vol. 26, no., pp. 1375-1381. ISSN 2238-7854. Dostupné na: <https://doi.org/10.1016/j.jmrt.2023.07.269>, Registrované v: WOS

2. [1.1] MAO, Mingheng - KE, Shaoqiu - TANG, Dingguo - SANG, Xiahan - HE, Danqi. Structure and Performance Optimization of Co Magnetic Thin Films Deposited by Vacuum Evaporation Coating. In *MATERIALS*, 2023, vol. 16, no. 9, pp. Dostupné na: <https://doi.org/10.3390/ma16093395>, Registrované v: WOS

3. [1.1] MATINAGA, Franklin M. - TAVARES, Mariana A. B. - KROHLING, Alisson C. - GOMES, Gustavo F. M. - NAKARMI, Prabandha - FERNANDEZ-OUTON, Luis E. - MARTINS, Maximiliano D. - ANDRADE, Leandro H. F. Consequences on Magnetization Dynamics of Synthesizing [Co_{sub}60/subFe_{sub}40/sub/Pt]_{sub}5/sub Multilayers Over Varying Pt Buffer Structures. In *IEEE TRANSACTIONS ON MAGNETICS*, 2023, vol. 59, no. 11, pp. ISSN 0018-9464. Dostupné na: <https://doi.org/10.1109/TMAG.2023.3283187>, Registrované v: WOS

- ADCA376 NEMČEK, L.** - ŠEBESTA, M. - URÍK, Martin - BUJDOŠ, M. - DOBROČKA, Edmund - VÁVRA, Ivo. Impact of bulk ZnO, ZnO nanoparticles and dissolved Zn on early growth stages of barley—a pot experiment. In *Plants*, 2020, vol. 9, no. 1365. (2019: 2.762 - IF, Q1 - JCR, 0.877 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2223-7747. Dostupné na:
<https://doi.org/10.3390/plants9101365>

Citácie:

1. [1.1] ANIK, T.R. - MOSTOFA, M.G. - RAHMAN, M. - KHAN, A.R. - GHOSH, P.K. - SULTANA, S. - DAS, A.K. - HOSSAIN, S. - KEYA, S.S. - RAHMAN, A. - JAHAN, N. - GUPTA, A. - TRAN, L.S.P. Zn Supplementation Mitigates Drought

- Effects on Cotton by Improving Photosynthetic Performance and Antioxidant Defense Mechanisms. In ANTIOXIDANTS. APR 2023, vol. 12, no. 4. Dostupné na: <https://doi.org/10.3390/antiox12040854>, Registrované v: WOS*
2. [1.1] BIBI, S. - RAZA, M. - SHAHBAZ, M. - AJMAL, M. - MEHAK, A. - FATIMA, N. - ABASI, F. - SEELAN, J.S.S. - RAJA, N.I. - BAI, Y.C. - ZAIN, M. - JAVAID, R.A. - MAIMAITI, Y. *Biosynthesized silver nanoparticles enhanced wheat resistance to Bipolaris sorokiniana. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, OCT 2023, vol. 203. Dostupné na: <https://doi.org/10.1016/j.plaphy.2023.108067>, Registrované v: WOS*
3. [1.1] CASTIGLIONE, M.R. - BOTTEGA, S. - SORCE, C. - SPANÒ, C. *Effects of Zinc Oxide Particles with Different Sizes on Root Development in Oryza sativa. In RICE SCIENCE. ISSN 1672-6308, SEP 2023, vol. 30, no. 5, p. 449-458. Dostupné na: <https://doi.org/10.1016/j.rsci.2023.03.016>, Registrované v: WOS*
4. [1.1] CHOWMASUNDARAM, Y.A.P. - TAN, T.L. - NULIT, R. - JUSOH, M. - RASHID, S.A. *Recent developments, applications and challenges for carbon quantum dots as a photosynthesis enhancer in agriculture. In RSC ADVANCES. AUG 21 2023, vol. 13, no. 36, p. 25093-25117. Dostupné na: <https://doi.org/10.1039/d3ra01217d>, Registrované v: WOS*
5. [1.1] GAO, M.Y. - CHANG, J. - WANG, Z.T. - ZHANG, H.Y. - WANG, T. *Advances in transport and toxicity of nanoparticles in plants. In JOURNAL OF NANOBIO TECHNOLOGY. MAR 2 2023, vol. 21, no. 1. Dostupné na: <https://doi.org/10.1186/s12951-023-01830-5>, Registrované v: WOS*
6. [1.1] KUMARI, A. - MANDZHIEVA, S.S. - MINKINA, T.M. - RAJPUT, V.D. - SHUVAEVA, V.A. - NEVIDOMSKAYA, D.G. - KIRICHKOV, M.V. - VELIGZHANIN, A.A. - SVETOGOROV, R.D. - KHRAMOV, E.V. - AHMED, B. - SINGH, J. *Speciation of macro- and nanoparticles of Cr₂O₃ in Hordeum vulgare L. and subsequent toxicity: A comparative study. In ENVIRONMENTAL RESEARCH. ISSN 0013-9351, APR 15 2023, vol. 223. Dostupné na: <https://doi.org/10.1016/j.envres.2023.115485>, Registrované v: WOS*
7. [1.1] SHERIF, R.M. - TALAT, D. - ALAIDAROOS, B.A. - FARSI, R.M. - HASSOUBAH, S.A. - JABER, F.A. - AZER, T.M. - EL-MASRY, R.M. - ABD EL-HACK, M.E. - IBRAHIM, M.S. - ELBESTAWY, A. *Antimicrobial impacts of zinc oxide nanoparticles on shiga toxin-producing Escherichia coli (serotype O26). In ANNALS OF ANIMAL SCIENCE. ISSN 1642-3402, APR 1 2023, vol. 23, no. 2, p. 461-471. Dostupné na: <https://doi.org/10.2478/aoas-2022-0088>, Registrované v: WOS*
8. [1.1] ZEIDAN, M.M. - ABEDRABBO, S. *Neutron Irradiation to Transmute Zinc into Gallium. In NANOMATERIALS. APR 27 2023, vol. 13, no. 9. Dostupné na: <https://doi.org/10.3390/nano13091487>, Registrované v: WOS*

ADCA377

NIU, G.** - CALKA, P. - HUANG, P. - SHARATH, S.U. - PETZOLD, S. - GLOSKOVSKII, A. - FRÖHLICH, Karol - ZHAO, Yunpeng - KANG, J. - SCHUBERT, M.A. - BÄRWOLF, F. - REN, W. - YE, Z.-G. - PEREZ, E. - WENGER, C. - ALFF, L. - SCHROEDER, T.**. *Operando diagnostic detection of interfacial oxygen 'breathing' of resistive random access memory by bulk-sensitive hard X-ray photoelectron spectroscopy. In Materials Research Letters, 2019, vol. 7, p. 117-123. (2018: 7.440 - IF, Q1 - JCR, 2.627 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2166-3831. Dostupné na: <https://doi.org/10.1080/21663831.2018.1561535>*

Citácie:

1. [1.1] ISMAIL, M. - RASHEED, M. - MAHATA, C. - KANG, M. - KIM, S. *Mimicking biological synapses with a-HfSiOx-based memristor: implications for artificial intelligence and memory applications. In NANO CONVERGENCE. ISSN*

2196-5404, JUL 10 2023, vol. 10, no. 1. Dostupné na:

<https://doi.org/10.1186/s40580-023-00380-8>, Registrované v: WOS

2. [1.1] LEONETTI, G. - FRETTO, M. - PIRRI, F.C. - DE LEO, N. - VALOV, I. - MILANO, G. Effect of electrode materials on resistive switching behaviour of NbO_x-based memristive devices. In SCIENTIFIC REPORTS. ISSN 2045-2322, OCT 9 2023, vol. 13, no. 1. Dostupné na: <https://doi.org/10.1038/s41598-023-44110-w>, Registrované v: WOS

3. [1.1] ZAHARI, F. - MARQUARDT, R. - KALLAENE, M. - GRONENBERG, O. - SCHLUETER, C. - MATVEYEV, Y. - HABERFEHLNER, G. - DIEKMANN, F. - NIERHAUVE, A. - BUCK, J. - HANFF, A. - KOLHATKAR, G. - KOTHLEITNER, G. - KIENLE, L. - ZIEGLER, M. - CARSTENSEN, J. - ROSSNAGEL, K. - KOHLSTEDT, H. Trap-Assisted Memristive Switching in HfO₂-Based Devices Studied by In Situ Soft and Hard X-Ray Photoelectron Spectroscopy. In ADVANCED ELECTRONIC MATERIALS. ISSN 2199-160X, JUN 2023, vol. 9, no. 6. Dostupné na: <https://doi.org/10.1002/aelm.202201226>, Registrované v: WOS

ADCA378 NOVÁK, Jozef - KULIFFAYOVÁ, Marta - MORVIC, Marian - KORDOŠ, Peter. Growth and properties of low-doped In_{0.53}Ga_{0.47}As LPE layers using rare earth oxides. In Journal of Crystal Growth, 1989, vol. 96, p. 645. ISSN 0022-0248.

Citácie:

1. [1.1] XIONG, W.S. - PENG, Z.W. - YAO, R.Y. - GUO, Q.W. - CHI, C.D. - JI, C. Systematic Analysis of a Modified Uni-Traveling-Carrier Photodiode under High-Power Operating Conditions. In PHOTONICS. APR 2023, vol. 10, no. 4.

Dostupné na: <https://doi.org/10.3390/photonics10040471>, Registrované v: WOS

ADCA379 NOVÁK, Jozef - HASENÖHRL, Stanislav - KÚDELA, Róbert - KUČERA, Michal - ALONSO, M.I. - GARRIGA, M. Effect of strain and ordering on the band-gap energy of InGaP. In Materials Science and Engineering. B.Solid-State Materials for Advanced Technology, 2002, vol. 88, p. 139-142. (2001: 1.022 - IF, karentované - CCC). (2002 - Current Contents, SCOPUS). ISSN 0921-5107.

Citácie:

1. [1.1] SODABANLU, H. - LI, G. - WATANABE, K. - NAKANO, Y. - SUGIYAMA, M. Improvement of InGaP solar cells grown with TBP in planetary MOVPE reactor. In SOLAR ENERGY MATERIALS AND SOLAR CELLS. ISSN 0927-0248, AUG 1 2023, vol. 257. Dostupné na:

<https://doi.org/10.1016/j.solmat.2023.112402>, Registrované v: WOS

ADCA380 NOVÁK, Jozef - VÁVRA, Ivo - KRIŽANOVÁ, Zuzana - HASENÖHRL, Stanislav - ŠOLTÝS, Ján - REIFFERS, Marián - ŠTRICHOVANEC, Pavol. Dependence of Curie temperature on the surface strain in InMnAs epitaxial structures. In Applied Surface Science, 2010, vol. 256, no. 18, p. 5672-5675. (2009: 1.616 - IF, Q2 - JCR, 0.840 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2010.03.021>

Citácie:

1. [1.1] BERNARDES, Y. - MARÇAL, L.A.B. - ROSA, B.L.T. - GARCIA, A. - DENEKE, C. - SCHÜLLI, T.U. - RICHARD, M.I. - MALACHIAS, A. Direct observation of large-area strain propagation on free-standing nanomembranes. In PHYSICAL REVIEW MATERIALS. ISSN 2475-9953, FEB 23 2023, vol. 7, no.

2. Dostupné na: <https://doi.org/10.1103/PhysRevMaterials.7.026002>,

Registrované v: WOS

ADCA381 OGNEV, A.V. - KOLESNIKOV, A.G. - KIM, Y. J. - CHA, I.H. - SADOVNIKOV, A.V. - NIKITOV, S.A. - SOLDATOV, I.V. - TALAPATRA, A. - MOHANTY, J. - MRUCZKIEWICZ, Michal - GE, Y. - KERBER, N. - DITTRICH, F. - VIRNAU, P. - KLÄUI, M. - KIM, Y.K.** - SAMARDAK, A.S.**. Magnetic direct-write

skyrmion nanolithography. In ACS Nano, 2020, vol. 14, p. 14960–14970. (2019: 14.588 - IF, Q1 - JCR, 6.131 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1936-0851. Dostupné na: <https://doi.org/10.1021/acsnano.0c04748>

Citácie:

1. [1.1] AJEJAS, F. - SASSI, Y. - LEGRAND, W. - SRIVASTAVA, T. - COLLIN, S. - VECCHIOLA, A. - BOUZEHOUE, K. - REYREN, N. - CROS, V. *Densely packed skyrmions stabilized at zero magnetic field by indirect exchange coupling in multilayers. In APL MATERIALS. ISSN 2166-532X, JUN 1 2023, vol. 11, no. 6. Dostupné na: <https://doi.org/10.1063/5.0139283>, Registrované v: WOS*

ADCA382

OLEJNÍKOVÁ, Božena. Spin-orbit-coupling, electric-field and free-carrier-screening effects on valence band structure of strained coupled quantum wells. In Acta Physica Polonica A, 1997, vol. 92, p. 940. (1997 - Current Contents). ISSN 1898-794X. Dostupné na: <https://doi.org/10.12693/APhysPolA.92.940>

Citácie:

1. [1.1] GLADYSIEWICZ, Marta - WARTAK, M. S. *Analyzing $k \cdot p$ modeling in highly mismatched alloys and other III-V semiconductors. In Journal of Applied Physics, 2023-12-21, 134, 23, pp. ISSN 00218979. Dostupné na: <https://doi.org/10.1063/5.0179100>, Registrované v: WOS*

ADCA383

ORIŇÁKOVÁ, Renáta - ORIŇÁK, Andrej - KUPKOVÁ, Miriam - HRUBOVČÁKOVÁ, Monika - MARKUŠOVÁ BUČKOVÁ, Lucia - GIRETOVÁ, Mária - MEDVECKÝ, Ľubomír - DOBROČKA, Edmund - PETRUŠ, Ondrej - KALAVSKÝ, František. In vitro degradation and cytotoxicity evaluation of iron biomaterials with hydroxyapatite film. In International Journal of Electrochemical Science, 2015, vol. 10, p. 8158-8174. (2014: 1.500 - IF, Q3 - JCR, 0.532 - SJR, Q3 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1452-3981.

Citácie:

1. [1.1] NAWAZ, A. - RANI, S. *Fabrication methods and property analysis of metal foams - a technical overview. In MATERIALS SCIENCE AND TECHNOLOGY. ISSN 0267-0836, OCT 13 2023, vol. 39, no. 15, p. 1877-1902. Dostupné na: <https://doi.org/10.1080/02670836.2023.2186068>, Registrované v: WOS*

2. [1.1] VILLASEÑOR-CERÓN, L.S. - MENDOZA-ANAYA, D. - LÓPEZ-ORTIZ, S. - ROSALES-IBAÑEZ, R. - RODRÍGUEZ-MARTINEZ, J.J. - REYES-VALDERRAMA, M.I. - RODRÍGUEZ-LUGO, V. *Biocompatibility analysis and chemical characterization of Mn-doped hydroxyapatite. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE. ISSN 0957-4530, JUL 29 2023, vol. 34, no. 8. Dostupné na: <https://doi.org/10.1007/s10856-023-06744-0>, Registrované v: WOS*

3. [1.1] YUSOP, A.H.M. - JAMALUDIN, F.H. - TUMINOH, H. - ALSAKKAF, A. - JANUDDI, F.S. - AL-FAKIH, A.M. - WONG, T.W. - HIDAYAT, A. - NUR, H. *The use of plant-derived polymeric coating to modulate iron corrosion for bone scaffold applications. In PROGRESS IN ORGANIC COATINGS. ISSN 0300-9440, DEC 2023, vol. 185. Dostupné na: <https://doi.org/10.1016/j.porgcoat.2023.107893>, Registrované v: WOS*

ADCA384

OSVALD, Jozef. Electronic properties of a near surface Si δ -doped GaAs under an applied electric field. In Journal of Physics D: Applied Physics, 2004, vol. 37, p. 2655-2659. (2004 - Current Contents, SCOPUS). ISSN 0022-3727.

Citácie:

1. [1.1] SAHU, A.K. - SAHOO, N. - PATNAIK, A. *Modulation of Electronic Properties in Double Quantum Well-Based FET Structure. In MICRO AND NANOELECTRONICS DEVICES, CIRCUITS AND SYSTEMS. ISSN 1876-1100,*

- 2023, vol. 904, p. 79-88. Dostupné na: https://doi.org/10.1007/978-981-19-2308-1_9, Registrované v: WOS
- ADCA385 **OSVALD, Jozef - HORVÁTH, Zs.J.** Theoretical study of the temperature dependence of electrical characteristics of Schottky diodes with an inverse near-surface layer. In *Applied Surface Science*, 2004, vol. 234, p. 349-354. ISSN 0169-4332.
- Citácie:
1. [1.1] **BODUR, M.C. - DUMAN, S. - ORAK, I. - SARITAS, S. - BARIS, O.** The photovoltaic and photodiode properties of Au/Carmine/n-Si/Ag diode. In *OPTICS AND LASER TECHNOLOGY*. ISSN 0030-3992, JUL 2023, vol. 162. Dostupné na: <https://doi.org/10.1016/j.optlastec.2023.109251>, Registrované v: WOS
 2. [1.1] **EFEUGLU, H. - TURUT, A. - GüL, M.** Current-Voltage Characteristics of Pt Metal-based and PtSi Silicide-based n-Si Schottky Diodes over a Wide Measuring Temperature Range. In *JOURNAL OF ELECTRONIC MATERIALS*. ISSN 0361-5235, FEB 2023, vol. 52, no. 2, SI, p. 1410-1418. Dostupné na: <https://doi.org/10.1007/s11664-022-10062-6>, Registrované v: WOS
 3. [1.1] **KAYA, F.S. - DUMAN, S. - TURGUT, G.** A study on investigation of electrical properties of Au/Chlorophyll-a/n-Si/Al structure. In *PHYSICA B-CONDENSED MATTER*. ISSN 0921-4526, NOV 15 2023, vol. 669. Dostupné na: <https://doi.org/10.1016/j.physb.2023.415167>, Registrované v: WOS
 4. [1.1] **SAADAOU, S. - FATHALLAH, O. - MAAREF, H.** Double Gaussian Distribution of Inhomogeneous Barrier Height in (Ni-Au)/Al_{0.25}Ga_{0.75}N/GaN. In *BRAZILIAN JOURNAL OF PHYSICS*. ISSN 0103-9733, FEB 2023, vol. 53, no. 1. Dostupné na: <https://doi.org/10.1007/s13538-022-01240-2>, Registrované v: WOS
- ADCA386 **OSVALD, Jozef.** Self-consistent analysis of Si δ -doped layer placed in a non-central position in GaAs structure. In *Physica E*, 2004, vol. 23, p. 147-151.
- Citácie:
1. [1.1] **DAKHLAOUI, H. - BELHADJ, W. - DURMUSLAR, A.S. - UNGAN, F. - ABDELKADER, A.** Numerical study of optical absorption coefficients in Manning-like AlGaAs/GaAs double quantum wells: Effects of doped impurities. In *PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES*. ISSN 1386-9477, MAR 2023, vol. 147. Dostupné na: <https://doi.org/10.1016/j.physe.2022.115623>, Registrované v: WOS
 2. [1.1] **DAKHLAOUI, H. - BELHADJ, W. - UNGAN, F. - AL-SHAMERI, N.S.** Linear and nonlinear optical properties in GaAs quantum well based on konwent-like potential: Effects of impurities and structural parameters. In *PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES*. ISSN 1386-9477, AUG 2023, vol. 152. Dostupné na: <https://doi.org/10.1016/j.physe.2023.115760>, Registrované v: WOS
- ADCA387 **OSVALD, Jozef - KUZMÍK, Ján - KONSTANTINIDIS, G. - LOBOTKA, Peter - GEORGAKILAS, A.** Temperature dependence of GaN Schottky diodes I-V characteristics. In *Microelectronic Engineering*, 2005, vol. 81, p. 181-187. ISSN 0167-9317.
- Citácie:
1. [1.1] **LIN, Y.X. - CHAO, D.S. - LIANG, J.H. - SHEN, Y.L. - HUANG, C.F. - HALL, S. - MITROVIC, I.Z.** Ultra-low turn-on voltage quasi-vertical GaN Schottky barrier diode with homogeneous barrier height. In *SOLID-STATE ELECTRONICS*. ISSN 0038-1101, SEP 2023, vol. 207. Dostupné na: <https://doi.org/10.1016/j.sse.2023.108723>, Registrované v: WOS
 2. [1.1] **SAWAI, K. - LIANG, J.B. - SHIMIZU, Y. - OHNO, Y. - NAGAI, Y. - SHIGEKAWA, N.** Characterization of Ga-face/Ga-face and N-face/N-face

- interfaces with antiparallel polarizations fabricated by surface-activated bonding of freestanding GaN wafers. In JAPANESE JOURNAL OF APPLIED PHYSICS. ISSN 0021-4922, NOV 1 2023, vol. 62, no. SN. Dostupné na: <https://doi.org/10.35848/1347-4065/acf382>, Registrované v: WOS*
- ADCA388 OSVALD, Jozef. Intersecting behaviour of nanoscale Schottky diodes I-V curves. In Solid State Communications : an international journal, 2006, vol. 138, p. 39-42. (2005: 1.489 - IF, Q2 - JCR, 1.114 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 0038-1098.
- Citácie:
1. [1.1] BENGI, S. - YÜKSELTÜRK, E. - BÜLBÜL, M.M. Investigation of electrical characterization of Al/HfO₂/p-Si structures in wide temperature range. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. ISSN 0957-4522, JAN 2023, vol. 34, no. 3. Dostupné na: <https://doi.org/10.1007/s10854-022-09613-8>, Registrované v: WOS
2. [1.1] SAADAOU, S. - FATHALLAH, O. - MAAREF, H. Double Gaussian Distribution of Inhomogeneous Barrier Height in (Ni-Au)/Al_{0.25}Ga_{0.75}N/GaN. In BRAZILIAN JOURNAL OF PHYSICS. ISSN 0103-9733, FEB 2023, vol. 53, no. 1. Dostupné na: <https://doi.org/10.1007/s13538-022-01240-2>, Registrované v: WOS
- ADCA389 OSVALD, Jozef. Series resistance influence on intersecting behaviour of inhomogeneous Schottky diodes I-V curves. In Solid-State Electronics, 2006, vol. 50, p. 228-231. (2005: 1.247 - IF, Q2 - JCR, 0.935 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0038-1101.
- Citácie:
1. [1.2] ZHANG, Chenhui - LI, Chong - WANG, Zhiyong - LI, Weize - LI, Zhanjie - YANG, Shuai. Study on the mechanism of metal/p-GaAs interface state on contact resistance. In Guangdianzi Jiguang/Journal of Optoelectronics Laser, 2023-04-01, 34, 4, pp. 358-363. ISSN 10050086. Dostupné na: <https://doi.org/10.16136/j.joel.2023.04.0272>, Registrované v: SCOPUS
- ADCA390 OSVALD, Jozef - DOBROČKA, Edmund. Generalized approach to the parameter extraction from Schottky diodes I-V characteristics. In Semiconductor Science and Technology, 1996, vol. 11, p. 1198-1202. (1996 - Current Contents). ISSN 0268-1242.
- Citácie:
1. [1.1] KUMAR, N.S. - BABU, B. - GOWTHAM, M. - SIVAKUMAR, C. - HO, M. - CHANG, J.H. - MOHANRAJ, K. Characterization of pure and Cu doped V₂O₅ nanostructures and their Cu:V₂O₅/p-Si photodiode applications. In DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES. ISSN 1842-3582, JAN-MAR 2023, vol. 18, no. 1, p. 131-143. Dostupné na: <https://doi.org/10.15251/DJNB.2023.181.131>, Registrované v: WOS
- ADCA391 OSVALD, Jozef. Numerical study of electrical transport in inhomogeneous Schottky diodes. In Journal of Applied Physics, 1999, vol. 85, p. 1935-1942. (1998: 1.729 - IF, karentované - CCC). (1999 - Current Contents, WOS, SCOPUS). ISSN 0021-8979.
- Citácie:
1. [1.1] YAN, Z.H. - YUAN, S. - JIANG, X. - DENG, C.F. - PANG, Z.J. - BU, X.S. - HONG, H.M. - GONG, X.W. - HAO, Y. A Novel AlGa_N/Ga_N-Based Schottky Barrier Diode With Partial P-GaN Cap Layer and Semicircular T-Anode for Temperature Sensors. In IEEE TRANSACTIONS ON ELECTRON DEVICES. ISSN 0018-9383, OCT 2023, vol. 70, no. 10, p. 5087-5091. Dostupné na: <https://doi.org/10.1109/TED.2023.3306736>, Registrované v: WOS
- ADCA392 OSVALD, Jozef - LALINSKÝ, Tibor - VANKO, Gabriel - HAŠČÍK, Štefan -

VINCZE, A. C–V characterization of SF6 plasma treated AlGaIn/GaN heterostructures. In *Microelectronic Engineering*, 2010, vol. 87, p. 2208-2210. (2009: 1.488 - IF, Q2 - JCR, 0.834 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0167-9317. Dostupné na: <https://doi.org/10.1016/j.mee.2010.02.004>

Citácie:

1. [1.1] FORNASIERO, Q. - DEFRANCE, N. - LEPILLIET, S. - AVRAMOVIC, V. - CORDIER, Y. - FRAYSSINET, E. - LESECQ, M. - IDIR, N. - DE JAEGER, J.C. *Fabrication, and Direct Current and cryogenic analysis of SF6-treated AlGaIn/GaN Schottky barrier diodes. In JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B. ISSN 2166-2746, JAN 2023, vol. 41, no. 1. Dostupné na: <https://doi.org/10.1116/6.0002125>, Registrované v: WOS*

ADCA393

OSVALD, Jozef. Influence of AlGaIn/GaN heterojunction parameters on its capacitance-voltage characteristics. In *Journal of Applied Physics*, 2009, vol. 106, no. 013708. (2008: 2.201 - IF, Q1 - JCR, 1.644 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 0021-8979.

Citácie:

1. [1.1] FUKUHARA, N. - HORIKIRI, F. - YAMAMOTO, T. - OSADA, T. - KASAHARA, K. - INOUE, T. - EGAWA, T. *Admittance frequency dispersion in lateral AlGaIn/GaN Schottky barrier diodes: Other origins of two Gp/ω peaks. In JOURNAL OF APPLIED PHYSICS. ISSN 0021-8979, FEB 28 2023, vol. 133, no. 8. Dostupné na: <https://doi.org/10.1063/5.0127499>, Registrované v: WOS*

ADCA394

OSVALD, Jozef. Temperature dependence of barrier height parameters of inhomogeneous Schottky diodes. In *Microelectronic Engineering*, 2009, vol. 86, p. 117-120. (2008: 1.583 - IF, Q2 - JCR, 1.027 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0167-9317.

Citácie:

1. [1.1] BEKADDOUR, A. - RABEHI, A. - TIZI, S. - ZEBENTOUT, B. - AKKAL, B. - BENAMARA, Z. *Effect of the contact area on the electrical characteristics of the Ti/6H-SiC (n) Schottky diode. In MICRO AND NANOSTRUCTURES. JAN 2023, vol. 173. Dostupné na: <https://doi.org/10.1016/j.micrna.2022.207464>, Registrované v: WOS*

2. [1.1] EL-DAMHOGI, D.G. - EL-SHABAAN, M.M. - ABUL-NASR, K.T. - MOHAMED, Z. - ELESH, E. *Optoelectronic and photo response performance of n-tris phenylpyridinato iridium/p-Si heterojunction device for photovoltaic applications. In CHINESE JOURNAL OF PHYSICS. ISSN 0577-9073, OCT 2023, vol. 85, p. 660-673. Dostupné na: <https://doi.org/10.1016/j.cjph.2023.03.025>, Registrované v: WOS*

3. [1.1] ERDOGAN, M. - DENIZ, A.R. - ÇALDIRAN, Z. *A novel thiophene-based D-n-A type organic material: Synthesis, characterization and Schottky diode applications. In JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY. ISSN 1010-6030, SEP 1 2023, vol. 443. Dostupné na: <https://doi.org/10.1016/j.jphotochem.2023.114877>, Registrované v: WOS*

ADCA395

OSVALD, Jozef** - LALINSKÝ, Tibor - VANKO, Gabriel. High temperature current transport in gate oxides based (GaIn)/AlGaIn/GaN Schottky diodes. In *Applied Surface Science*, 2018, vol. 461, p. 206-211. (2017: 4.439 - IF, Q1 - JCR, 1.093 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2018.06.113>

Citácie:

1. [1.1] KUMAR, A. *Investigation of temperature dependant current transport mechanism in Ag/In2O3/p-Si/Al heterojunction. In MICRO AND*

NANOSTRUCTURES. NOV 2023, vol. 183. Dostupné na:

<https://doi.org/10.1016/j.micrna.2023.207665>, Registrované v: WOS

- ADCA396 OSVALD, Jozef - VANKO, Gabriel - CHOW, L. - CHEN, N.C. - CHANG, L.B. Transition voltage of AlGaIn/GaN heterostructure MSM varactor with two-dimensional electron gas. In *Microelectronics reliability*, 2017, vol. 78, p. 243–248. (2016: 1.371 - IF, Q3 - JCR, 0.447 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0026-2714. Dostupné na: <https://doi.org/10.1016/j.microrel.2017.09.004>

Citácie:

1. [1.1] *HSIEH, Y.L. - LO, H.Z. - NEE, T.E. - CHANG, C.N. - YANG, C.H. Study on epitaxial structure and substrate material variations for improving electrical reliability of the MSM AlGaIn/GaN 2DEG varactors. In MICROELECTRONICS RELIABILITY. ISSN 0026-2714, MAR 2023, vol. 142. Dostupné na:*

<https://doi.org/10.1016/j.microrel.2023.114905>, Registrované v: WOS

- ADCA397 OSVALD, Jozef. Interface traps contribution to capacitance of Al₂O₃/(GaIn)AlGaIn/GaN heterostructures at low frequencies. In *Physica E : low-dimensional system and nanostructure*, 2017, vol. 93, p. 238-242. (2016: 2.221 - IF, Q2 - JCR, 0.557 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1386-9477. Dostupné na: <https://doi.org/10.1016/j.physe.2017.06.022>

Citácie:

1. [1.1] *HASAN, S. - JEWEL, M.U. - CRITTENDEN, S.R. - LEE, D. - AVRUTIN, V. - ÖZGÜR, Ü - MORKOÇ, H. - AHMAD, I. MOCVD-grown β-Ga₂O₃ as a Gate Dielectric on AlGaIn/GaN-Based Heterojunction Field Effect Transistor. In CRYSTALS. FEB 2023, vol. 13, no. 2. Dostupné na:*

<https://doi.org/10.3390/cryst13020231>, Registrované v: WOS

- ADCA398 OSVALD, Jozef. Back-to-back connected asymmetric Schottky diodes with series resistance as a single diode. In *Physica Status Solidi A : applications and materials science*, 2015, vol. 212, p. 2754-2758. (2014: 1.616 - IF, Q2 - JCR, 0.688 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1862-6300. Dostupné na: <https://doi.org/10.1002/pssa.201532374>

Citácie:

1. [1.1] *BANERJEE, A. - CHAKRABORTY, P. - CHOWDHURY, J.R.*

Aluminium/2-hydroxybenzaldehyde phenylhydrazone/aluminium organic MSM diode: an electrical and optoelectronic study. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. ISSN 0957-4522, OCT 2023, vol. 34, no. 28. Dostupné na: <https://doi.org/10.1007/s10854-023-11322-9>, Registrované v: WOS

2. [1.1] *OZ, D. - SULEYMANOV, N. - MINKOVICH, B. - KOSTIANOVSKII, V. - GANTZ, L. - POLYUSHKIN, D. - MUELLER, T. - GOYKHMANN, I. Optically Transparent and Thermally Efficient 2D MoS₂ Heaters Integrated with Silicon Microring Resonators. In ACS PHOTONICS. ISSN 2330-4022, JUN 5 2023, vol. 10, no. 6, p. 1783-1794. Dostupné na:*

<https://doi.org/10.1021/acsp Photonics.3c00053>, Registrované v: WOS

3. [1.1] *ZHANG, Q.F. - LI, Q. - FANG, W.N. - ZHANG, M.Y. - CHEN, R.S. - CHEN, Y.W. - LI, J.X. - YUN, F. High-performance flexible UV-photodetector via self-assembled ZnO films. In JOURNAL OF PHYSICS D-APPLIED PHYSICS. ISSN 0022-3727, NOV 9 2023, vol. 56, no. 45. Dostupné na:*

<https://doi.org/10.1088/1361-6463/aceb6e>, Registrované v: WOS

4. [1.1] *ZHAO, Q.H. - CHEN, P. - ZHENG, D. - WANG, T. - CASTELLANOS-GOMEZ, A. - FRISENDI, R. Multifunctional indium selenide devices based on van der Waals contacts: High-quality Schottky diodes and optoelectronic memories. In NANO ENERGY. ISSN 2211-2855, APR 2023, vol. 108. Dostupné*

- ADCA399 *na: <https://doi.org/10.1016/j.nanoen.2023.108238>, Registrované v: WOS*
 OSVALD, Jozef - STOKLAS, Roman - KORDOŠ, Peter. Low- and high-frequency capacitance of aluminum gallium nitride/gallium nitride heterostructures with interface traps. In *Materials science in semiconductor processing*, 2015, vol. 31, p. 525-529. (2014: 1.955 - IF, Q2 - JCR, 0.554 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1369-8001. Dostupné na: <https://doi.org/10.1016/j.mssp.2014.11.052>
- Citácie:
 1. [1.1] LIN, X.Y. - XIN, Q. - KIM, J. - JIN, J.D. - ZHANG, J.W. - SONG, A.M. *High-Performance I-V IGZO Thin-Film Transistors Gated With Aqueous and Organic Electrolyte-Anodized Al_xO_y*. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. ISSN 0018-9383, FEB 2023, vol. 70, no. 2, p. 537-543. Dostupné na: <https://doi.org/10.1109/TED.2022.3229286>, Registrované v: WOS
- ADCA400 OSVALD, Jozef** - HRUBČÍN, Ladislav - ZAŤKO, Bohumír. Schottky barrier height inhomogeneity in 4H-SiC surface barrier detectors. In *Applied Surface Science*, 2020, vol. 533, no. 147389. (2019: 6.182 - IF, Q1 - JCR, 1.230 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2020.147389> (VEGA 2/0084/20. VEGA 2/0112/17)
- Citácie:
 1. [1.1] MALLIK, G. - KABIRAJ, A. - DASH, P.P. - KUMARI, P. - SAHOO, P.K. - SAHOO, U.P. - RATH, S. *Schottky junction based solar cell behavior of trichome hierarchical SnO₂ nano-structures*. In *OPTICAL MATERIALS*. ISSN 0925-3467, OCT 2023, vol. 144. Dostupné na: <https://doi.org/10.1016/j.optmat.2023.114306>, Registrované v: WOS
- ADCA401 OSVALD, Jozef**. Intersection of 4H-SiC Schottky diodes I-V curves due to temperature dependent series resistance. In *Semiconductor Science and Technology*, 2022, vol. 37, no. 125003. (2021: 2.048 - IF, Q3 - JCR, 0.452 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0268-1242. Dostupné na: <https://doi.org/10.1088/1361-6641/ac9859>
- Citácie:
 1. [1.1] SAADAOU, S. - FATHALLAH, O. - MAAREF, H. *Double Gaussian Distribution of Inhomogeneous Barrier Height in (Ni-Au)/Al_{0.25}Ga_{0.75}N/GaN*. In *BRAZILIAN JOURNAL OF PHYSICS*. ISSN 0103-9733, FEB 2023, vol. 53, no. 1. Dostupné na: <https://doi.org/10.1007/s13538-022-01240-2>, Registrované v: WOS
- ADCA402 OSVALD, Jozef** - HRUBČÍN, Ladislav - ZAŤKO, Bohumír. Temperature dependence of electrical behaviour of inhomogeneous Ni/Au/4H-SiC Schottky diodes. In *Materials science in semiconductor processing*, 2022, vol. 140, no. 106413. (2021: 4.644 - IF, Q2 - JCR, 0.687 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1369-8001. Dostupné na: <https://doi.org/10.1016/j.mssp.2021.106413>
- Citácie:
 1. [1.1] CAPAN, I. - BERNAT, R. - MAKINO, T. - KNEZEVIC, T. *4H-SiC Schottky barrier diodes as radiation detectors: A role of Schottky contact area*. In *DIAMOND AND RELATED MATERIALS*. ISSN 0925-9635, AUG 2023, vol. 137. Dostupné na: <https://doi.org/10.1016/j.diamond.2023.110072>, Registrované v: WOS
 2. [1.1] DENIZ, A.R. *Analysis of temperature dependent current-voltage and frequency dependent capacitance-voltage characteristics of Au/CoO/p-Si/Al MIS diode*. In *MICROELECTRONICS RELIABILITY*. ISSN 0026-2714, AUG 2023, vol. 147. Dostupné na: <https://doi.org/10.1016/j.microrel.2023.115114>,

Registrované v: WOS

3. [1.1] EFGOGLU, H. - TURUT, A. - GÜL, M. *Current-Voltage Characteristics of Pt Metal-based and PtSi Silicide-based n-Si Schottky Diodes over a Wide Measuring Temperature Range. In JOURNAL OF ELECTRONIC MATERIALS. ISSN 0361-5235, FEB 2023, vol. 52, no. 2, SI, p. 1410-1418. Dostupné na: <https://doi.org/10.1007/s11664-022-10062-6>, Registrované v: WOS*

ADCA403

PAASI, J. - KALLIOHAKA, T. - KORPELA, A. - SÖDERLUND, L. - HERRMANN, P.F. - KVIKOVIC, Jozef - MAJOROŠ, Milan. Homogeneity studies of multifilamentary BSCCO tapes by three-axis Hall sensor magnetometry. In IEEE Transactions on Applied Superconductivity, 1999, vol. 9, p. 1598-1600. (1998: 0.782 - IF, karentované - CCC). (1999 - Current Contents, WOS, SCOPUS).

Citácie:

1. [1.1] ROTHEUDT, N. - FAGNARD, J.F. - HARMELING, P. - VANDERBEMDEN, P. *Adapting a commercial integrated circuit 3-axis Hall sensor for measurements at low temperatures: Mapping the three components of B in superconducting applications. In CRYOGENICS. ISSN 0011-2275, JUL 2023, vol. 133. Dostupné na: <https://doi.org/10.1016/j.cryogenics.2023.103693>, Registrované v: WOS*

ADCA404

PARDO, Enric - GÖMÖRY, Fedor - ŠOUC, Ján - CEBALLOS, J.M. Current distribution and ac loss for a superconducting rectangular strip with in-phase alternating current and applied field. In Superconductor Science and Technology. - Bristol : IOP Publishing, 2007, vol. 20, p. 351-364. (2006: 1.440 - IF, Q2 - JCR, 1.403 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] KANG, X. - WANG, X.Z. *A homogenised anisotropic J-model for accelerating computations of screening current profile in large-scale HTS magnets. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, MAR 1 2023, vol. 36, no. 3. Dostupné na: <https://doi.org/10.1088/1361-6668/acb66f>, Registrované v: WOS*

2. [1.1] KOSHY, B. - SUN, Y.M. - BADCOCK, R.A. - MALLETT, B.P.P. - JIANG, Z.A. *Numerical Analysis of Dynamic Resistance and Total Loss in REBCO-Coated Conductors at Low Temperature Under High Perpendicular AC Magnetic Fields. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, SEP 2023, vol. 33, no. 6. Dostupné na:*

<https://doi.org/10.1109/TASC.2023.3274415>, Registrované v: WOS

ADCA405

PARDO, Enric - ŠOUC, Ján - VOJENČIAK, Michal. AC loss measurement and simulation of a coated conductor pancake coil with ferromagnetic parts. In Superconductor Science and Technology, 2009, vol. 22, no. 075007. (2008: 1.847 - IF, Q2 - JCR, 1.867 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] WU, Y. - FANG, J. - AMEMIYA, N. - BADCOCK, R.A. - LONG, N.J. - JIANG, Z.A. *AC Loss Reduction in HTS Coil Windings Coupled With an Iron Core Using Flux Diverters. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 48826-48840. Dostupné na: <https://doi.org/10.1109/ACCESS.2023.3277196>, Registrované v: WOS*

2. [1.1] WU, Y. - SONG, W.J. - WIMBUSH, S.C. - FANG, J. - BADCOCK, R.A. - LONG, N.J. - JIANG, Z.A. *Combined Impact of Asymmetric Critical Current and Flux Diverters on AC Loss of a 6.5 MVA/25 kV HTS Traction Transformer. In IEEE TRANSACTIONS ON TRANSPORTATION ELECTRIFICATION. ISSN 2332-7782, MAR 2023, vol. 9, no. 1, p. 1590-1604. Dostupné na:*

- <https://doi.org/10.1109/TTE.2022.3194027>, *Registrované v: WOS*
- ADCA406 PARDO, Enric - VOJENČIAK, Michal - GÖMÖRY, Fedor - ŠOUC, Ján. Low-magnetic-field dependence and anisotropy of the critical current density in coated conductors. In *Superconductor Science and Technology*, 2011, vol. 24, 065007. (2010: 2.402 - IF, Q1 - JCR, 1.480 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, SCOPUS). ISSN 0953-2048.
- Citácie:*
- [1.1] GURYEV, V.V. - IRODOVA, A.V. - CHUMAKOV, N.K. - SHAVKIN, S.V. Low-field magnetization features of superconducting tapes with strong pinning anisotropy. In *ST PETERSBURG POLYTECHNIC UNIVERSITY JOURNAL-PHYSICS AND MATHEMATICS*. ISSN 2405-7223, 2023, vol. 16, no. 1, 1, p. 67-73. Dostupné na: <https://doi.org/10.18721/JPM.161.111>, *Registrované v: WOS*
 - [1.1] KANG, X. - WANG, X.Z. A homogenised anisotropic J-model for accelerating computations of screening current profile in large-scale HTS magnets. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, MAR 1 2023, vol. 36, no. 3. Dostupné na: <https://doi.org/10.1088/1361-6668/acb66f>, *Registrované v: WOS*
 - [1.1] WANG, Y. - FANG, J. - SOGABE, Y. - BADCOCK, R.A. - STOREY, J.G. - JIANG, Z.A. Numerical Simulations on AC Loss of the REBCO Tape Under Rotating Magnetic Field. In *IEEE ACCESS*. ISSN 2169-3536, 2023, vol. 11, p. 138052-138063. Dostupné na: <https://doi.org/10.1109/ACCESS.2023.3340731>, *Registrované v: WOS*
- ADCA407 PARDO, Enric. Dynamic magneto-resistance: turning a nuisance into an essential effect. In *Superconductor Science and Technology*, 2017, vol. 30, art. no. 060501. (2016: 2.878 - IF, Q2 - JCR, 0.967 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/aa6c97>
- Citácie:*
- [1.1] LI, C. - XING, Y.Y. - GUO, F.R. - LI, N. - XIN, Y. - LI, B. Dynamic resistance loss of the high temperature superconducting coil for superconducting magnetic energy storage. In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*. ISSN 0921-4534, OCT 15 2023, vol. 613. Dostupné na: <https://doi.org/10.1016/j.physc.2023.1354334>, *Registrované v: WOS*
 - [1.1] LI, C. - XING, Y.Y. - XIN, Y. - LI, B. - GRILLI, F. Time-dependent development of dynamic resistance voltage of superconducting tape considering heat accumulation. In *SUPERCONDUCTIVITY*. DEC 2023, vol. 8. Dostupné na: <https://doi.org/10.1016/j.supcon.2023.100066>, *Registrované v: WOS*
- ADCA408 PARDO, Enric. Modeling of screening currents in coated conductor magnets containing up to 40000 turns. In *Superconductor Science and Technology*, 2016, vol. 29, art. no. 085004. (2015: 2.717 - IF, Q1 - JCR, 1.130 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/29/8/085004>
- Citácie:*
- [1.1] KANG, X. - WANG, X.Z. A homogenised anisotropic J-model for accelerating computations of screening current profile in large-scale HTS magnets. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, MAR 1 2023, vol. 36, no. 3. Dostupné na: <https://doi.org/10.1088/1361-6668/acb66f>, *Registrované v: WOS*
 - [1.1] ZHOU, Y.H. - PARK, D. - IWASA, Y. Review of progress and challenges of key mechanical issues in high-field superconducting magnets. In *NATIONAL SCIENCE REVIEW*. ISSN 2095-5138, FEB 28 2023, vol. 10, no. 3. Dostupné na: <https://doi.org/10.1093/nsr/nwad001>, *Registrované v: WOS*

- ADCA409 PARDO, Enric - KAPOLKA, Milan. 3D computation of non-linear eddy currents: Variational method and superconducting cubic bulk. In *Journal of Computational Physics*, 2017, vol. 344, p. 339-363. (2016: 2.746 - IF, Q1 - JCR, 2.049 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0021-9991. Dostupné na: <https://doi.org/10.1016/j.jcp.2017.05.001>
- Citácie:
1. [1.1] *AINSLIE, M.D. Numerical modelling of high-temperature superconducting dynamos: A review. In SUPERCONDUCTIVITY. MAR 2023, vol. 5. Dostupné na: <https://doi.org/10.1016/j.supcon.2022.100033>, Registrované v: WOS*
 2. [1.1] *CARVALHO, D.J.G. - DA SILVA, F.F. - FERNANDES, J.F.P. - BRANCO, P.J.D. Finite-element recipes for HTS-coated conductors and HTS tape topologies. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, OCT 1 2023, vol. 36, no. 10. Dostupné na: <https://doi.org/10.1088/1361-6668/acf4c3>, Registrované v: WOS*
 3. [1.1] *WANG, S.J. - YONG, H.D. - ZHOU, Y.H. Numerical calculations of high temperature superconductors with the J-A formulation. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acfbbe>, Registrované v: WOS*
 4. [1.1] *YANG, Y.F. Electric Centrelines and Magnetic Coupling of Superconducting Strands in Assemblies and Cables. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3242931>, Registrované v: WOS*
 5. [1.1] *ZHOU, P.B. - GHABELI, A. - AINSLIE, M. - GRILLI, F. Characterization of flux pump-charging of high-temperature superconducting coils using coupled numerical models. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acf739>, Registrované v: WOS*
- ADCA410 PARDO, Enric** - GRILLI, F. - LIU, Y. - WOLFTÄDLER, S. - REIS, T. AC loss modeling in superconducting coils and motors with parallel tapes as conductor. In *IEEE Transactions on Applied Superconductivity*, 2019, vol. 29, no. 5202505. (2018: 1.692 - IF, Q3 - JCR, 0.406 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2019.2899148> (VEGA 2/0097/18. H2020 ASuMED)
- Citácie:
1. [1.1] *MIURA, S. - KOBUN, A. - MASUDA, Y. - NAKAMURA, K. - MIYAZAKI, H. - KAWAGOE, A. - SASA, H. - YOSHIDA, K. - SATO, S. - IWAKUMA, M. Current Sharing Among Transposed Three-Parallel REBa₂Cu₃O_y Tapes in Single-Phase Armature Coils. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3241824>, Registrované v: WOS*
 2. [1.1] *SONG, W.J. - BADCOCK, R.A. - LONG, N.J. - JIANG, Z.A. AC Loss in REBCO Coil Windings Wound With Various Cables: Effect of Current Distribution Among the Cable Strands. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 102082-102091. Dostupné na: <https://doi.org/10.1109/ACCESS.2023.3315731>, Registrované v: WOS*
 3. [1.1] *WANG, R. - LIU, Y.Z. - CAO, J.W. - LI, L.Y. - LIU, X.K. - XUE, H.D. - ARNDT, T. Preliminary design optimization of a fully superconducting motor based on disk-up-down-assembly magnets. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, MAY 1 2023, vol. 36, no. 5. Dostupné na: <https://doi.org/10.1088/1361-6668/acc822>, Registrované v: WOS*

4. [1.1] YILDIZ, S. - BIÇER, A. Numerical modelling and analysis of current induced stresses in REBCO coil stacks. In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*. ISSN 0921-4534, DEC 15 2023, vol. 615. Dostupné na: <https://doi.org/10.1016/j.physc.2023.1354396>, Registrované v: WOS

5. [1.1] ZHOU, Q.X. - CHEN, S. - WANG, J.Y. - ZHANG, Y.F. Analysis of Transport Loss Characteristics Based on Simplified Model of Stacked Superconducting Tapes. In *JOURNAL OF LOW TEMPERATURE PHYSICS*. ISSN 0022-2291, DEC 2023, vol. 213, no. 5-6, p. 272-290. Dostupné na: <https://doi.org/10.1007/s10909-023-03006-9>, Registrované v: WOS

6. [1.1] ZHOU, X.Y. - ZOU, S.N. - CHEN, W. - SONG, S.J. - CHEN, Z.J. - XU, J.J. - YAN, M. Conceptual design, AC loss calculation, and optimization of an airborne fully high temperature superconducting generator. In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*. ISSN 0921-4534, FEB 15 2023, vol. 605. Dostupné na: <https://doi.org/10.1016/j.physc.2022.1354207>, Registrované v: WOS

ADCA411 PARDO, Enric - KAPOLKA, Milan - KOVÁČ, Ján - ŠOUC, Ján - GRILLI, F. - PIQUÉ, A. Three-dimensional modeling and measurement of coupling AC loss in soldered tapes and striated coated conductors. In *IEEE Transactions on Applied Superconductivity*, 2016, vol. 26, art. no. 4700607. (2015: 1.092 - IF, Q3 - JCR, 0.403 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2016.2523758>

Citácie:

1. [1.1] AINSLIE, M.D. Numerical modelling of high-temperature superconducting dynamos: A review. In *SUPERCONDUCTIVITY*. MAR 2023, vol. 5. Dostupné na: <https://doi.org/10.1016/j.supcon.2022.100033>, Registrované v: WOS

ADCA412 PARDO, Enric - ŠOUC, Ján - FROLEK, Lubomír. Electromagnetic modelling of superconductors with a smooth current–voltage relation: variational principle and coils from a few turns to large magnets. In *Superconductor Science and Technology*, 2015, vol. 28, 044003. (2014: 2.325 - IF, Q2 - JCR, 1.196 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/28/4/044003>

Citácie:

1. [1.1] AINSLIE, M.D. Numerical modelling of high-temperature superconducting dynamos: A review. In *SUPERCONDUCTIVITY*. MAR 2023, vol. 5. Dostupné na: <https://doi.org/10.1016/j.supcon.2022.100033>, Registrované v: WOS

2. [1.1] CARVALHO, D.J.G. - DA SILVA, F.F. - FERNANDES, J.F.P. - BRANCO, P.J.D. Finite-element recipes for HTS-coated conductors and HTS tape topologies. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, OCT 1 2023, vol. 36, no. 10. Dostupné na: <https://doi.org/10.1088/1361-6668/acf4c3>, Registrované v: WOS

3. [1.1] CHOW, C.C.T. - GRILLI, F. - CHAU, K.T. Numerical modelling of HTS tapes under arbitrary external field and transport current via integral method: review and application to electrical machines. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/ace701>, Registrované v: WOS

4. [1.1] LI, X.F. - LI, S. - CHEN, D.X. Field and current driven versions of Brandt method for calculating transport ac loss of superconducting cylinder and strip. In *SUPERCONDUCTIVITY*. SEP 2023, vol. 7. Dostupné na: <https://doi.org/10.1016/j.supcon.2023.100052>, Registrované v: WOS

5. [1.1] WANG, S.J. - YONG, H.D. - ZHOU, Y.H. Numerical calculations of high temperature superconductors with the J-A formulation. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acfbbe>, Registrované v: WOS
6. [1.1] ZHOU, P.B. - GHABELI, A. - AINSLIE, M. - GRILLI, F. Characterization of flux pump-charging of high-temperature superconducting coils using coupled numerical models. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acf739>, Registrované v: WOS
- ADCA413 PARDO, Enric. Calculation of AC loss in coated conductor coils with a large number of turns. In Superconductor Science and Technology, 2013, vol. 26, 105017. (2012: 2.758 - IF, Q1 - JCR, 1.535 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/26/10/105017>
Citácie:
1. [1.1] FAWAZ, S. - MENANA, H. - DOUINE, B. - QUEVAL, L. Fast modeling approach of large-scale non-inductive HTS coils under different current supply. In PHYSICA SCRIPTA. ISSN 0031-8949, APR 1 2023, vol. 98, no. 4. Dostupné na: <https://doi.org/10.1088/1402-4896/acbbae>, Registrované v: WOS
- ADCA414 PARDO, Enric - STAINES, M. - JIANG, Z. - GLASSON, N. Ac loss modelling and measurement of superconducting transformers with coated-conductor Roebel-cable in low-voltage winding. In Superconductor Science and Technology, 2015, vol. 28, 114008. (2014: 2.325 - IF, Q2 - JCR, 1.196 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/28/11/114008>
Citácie:
1. [1.1] BRUCE, J. - GUVVALA, N. - RUDD, R. - TANK, M. - DE LEON, A. - KIM, C.H. - PAMIDI, S.V. - SWEAT, R. - CHEETHAM, P. Novel Electrical Insulation Coatings for HTS Cables. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3257772>, Registrované v: WOS
2. [1.1] KOSHY, B. - SUN, Y.M. - BADCOCK, R.A. - MALLETT, B.P.P. - JIANG, Z.A. Numerical Analysis of Dynamic Resistance and Total Loss in REBCO-Coated Conductors at Low Temperature Under High Perpendicular AC Magnetic Fields. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, SEP 2023, vol. 33, no. 6. Dostupné na: <https://doi.org/10.1109/TASC.2023.3274415>, Registrované v: WOS
3. [1.1] LI, Q.Z. - LU, Y.M. - ZHAO, W.W. - ZHOU, D.F. - CAI, C.B. Effects of Winding Angle on Losses of CORC Cable-A Numerical Study. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, MAR 2023, vol. 33, no. 2. Dostupné na: <https://doi.org/10.1109/TASC.2022.3224841>, Registrované v: WOS
- ADCA415 PARDO, Enric - KOVÁČ, Ján - ŠOUC, Ján. Power loss in ReBCO racetrack coils under AC applied magnetic field and DC current. In IEEE Transactions on Applied Superconductivity, 2013, vol. 23, 4701305. (2012: 1.199 - IF, Q2 - JCR, 0.575 - SJR, karentované - CCC). (2013 - Current Contents, SCOPUS). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2012.2235518>
Citácie:
1. [1.1] SUN, Y.M. - YOU, S.R. - BADCOCK, R.A. - LONG, N.J. - JIANG, Z.A. Dynamic resistance and total loss in small REBCO pancake and racetrack coils carrying DC currents under an AC magnetic field. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, APR 1 2023, vol. 36, no. 4.

- Dostupné na: <https://doi.org/10.1088/1361-6668/acb4c0>, Registrované v: WOS
2. [1.1] TER HARMSEL, J. - OTTEN, S. - DHALLE, M. - TEN KATE, H. Magnetization loss and transport current loss in ReBCO racetrack coils carrying stationary current in time-varying magnetic field at 4.2 K. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, JAN 1 2023, vol. 36, no. 1. Dostupné na: <https://doi.org/10.1088/1361-6668/aca83d>, Registrované v: WOS
 3. [1.1] WU, W. - LU, L. - ZHONG, Z.Y. - LI, K. - JIN, Z.J. A non-destructive method for detecting turn-to-turn resistivity distribution in NI REBCO coils. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, OCT 1 2023, vol. 36, no. 10. Dostupné na: <https://doi.org/10.1088/1361-6668/acef6a>, Registrované v: WOS
 4. [1.1] ZHAI, Y. - MA, G.T. - LI, J. - ZHOU, P.B. - REN, G. - ZHOU, Y.Y. Numerical study for the impact of current sharing effect upon dynamic behaviour of DC-carrying HTS coils under alternating magnetic fields. In CRYOGENICS. ISSN 0011-2275, OCT 2023, vol. 135. Dostupné na: <https://doi.org/10.1016/j.cryogenics.2023.103730>, Registrované v: WOS
 5. [1.1] ZHONG, Z.Y. - WU, W. - LU, L. - SHEN, B.Y. - DONG, F.L. - WANG, L.B. - HONG, Z.Y. - JIN, Z.J. Time-variant magnetic field, voltage, and loss of no-insulation (NI) HTS magnet induced by dynamic resistance generation from external AC fields. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, MAY 1 2023, vol. 36, no. 5. Dostupné na: <https://doi.org/10.1088/1361-6668/acbd6b>, Registrované v: WOS

ADCA416

PARDO, Enric - ŠOUC, Ján - KOVÁČ, Ján. AC loss in ReBCO pancake coils and stacks of them: modelling and measurement. In Superconductor Science and Technology, 2012, vol. 25, 035008. (2011: 2.662 - IF, Q1 - JCR, 1.461 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/25/3/035003>

Citácie:

1. [1.1] IJAGBEMI, K. - SHUKLA, D.P. - KIM, C.H. - TELIKAPALLI, S. - CHEETHAM, P. - PAMIDI, S. Evaluation of Frequency Loss Induced Quench Protection Prototype at 77 K Using HTS Coils. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3252497>, Registrované v: WOS
2. [1.1] SONG, H.H. - JIANG, Z.A. - SONG, W.J. Design Consideration and Conductor Selection of a Low AC Loss HTS REBCO Magnet Carrying High Currents at 20 K and 40 K. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3253072>, Registrované v: WOS
3. [1.1] TER HARMSEL, J. - OTTEN, S. - DHALLE, M. - TEN KATE, H. Magnetization loss and transport current loss in ReBCO racetrack coils carrying stationary current in time-varying magnetic field at 4.2 K. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, JAN 1 2023, vol. 36, no. 1. Dostupné na: <https://doi.org/10.1088/1361-6668/aca83d>, Registrované v: WOS
4. [1.1] VARGAS-LLANOS, C.R. - KRÄMER, J. - NOE, M. - GRILLI, F. Design and test of a setup for calorimetric measurements of AC transport losses in HTS racetrack coils. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, APR 1 2023, vol. 36, no. 4. Dostupné na: <https://doi.org/10.1088/1361-6668/acbba5>, Registrované v: WOS
5. [1.1] WU, Y. - FANG, J. - AMEMIYA, N. - BADCOCK, R.A. - LONG, N.J. - JIANG, Z.A. AC Loss Reduction in HTS Coil Windings Coupled With an Iron

Core. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na:

<https://doi.org/10.1109/TASC.2023.3246944>, Registrované v: WOS

6. [1.1] YILDIZ, S. - BIÇER, A. Numerical modelling and analysis of current induced stresses in REBCO coil stacks. In PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS. ISSN 0921-4534, DEC 15 2023, vol. 615. Dostupné na: <https://doi.org/10.1016/j.physc.2023.1354396>, Registrované v: WOS

ADCA417

PATSULA, Vitalii - TULINSKÁ, J.** - TRACHTOVÁ, Štěpánka - KURICOVÁ, M. - LIŠKOVÁ, A. - ŠPANOVÁ, A. - ČIAMPOR, Fedor - VÁVRA, Ivo - RITTICH, B - URSINYOVÁ, Monika - DUŠINSKÁ, Mária - ILAVSKÁ, S. - HORVÁTHOVÁ, Mira - MASANOVA, Vlasta - UHNAKOVA, Iveta - HORÁK, Daniel**. Toxicity evaluation of monodisperse PEGylated magnetic nanoparticles for nanomedicine. In Nanotoxicology, 2019, vol. 13, no. 4, p. 510-526. (2018: 5.955 - IF, Q1 - JCR, 1.617 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1743-5390. Dostupné na:

<https://doi.org/10.1080/17435390.2018.1555624> (INNOCENT : Inovatívne nanoliečivá: Nová kombinácia epigenických a protinádorových liečiv s génovou terapiou zacielená voči nádorovým kmeňovým bunkám karcinómu prsníka)

Citácie:

1. [1.1] LOMPHITHAK, T. - HELVACIOGLU, S. - ARMENIA, I. - KESHAVAN, S. - OVEJERO, J.G. - BALDI, G. - RAVAGLI, C. - GRAZÚ, V. - FADEEL, B. High-Dose Exposure to Polymer-Coated Iron Oxide Nanoparticles Elicits Autophagy-Dependent Ferroptosis in Susceptible Cancer Cells. In NANOMATERIALS. MAY 24 2023, vol. 13, no. 11. Dostupné na:

<https://doi.org/10.3390/nano13111719>, Registrované v: WOS

2. [1.1] SU, Z.N. - DIAO, T. - MCGUIRE, H. - YAO, C.C. - YANG, L.J. - BAO, G. - XU, X.X. - HE, B. - ZHENG, Y.F. Nanomaterials Solutions for Contraception: Concerns, Advances, and Prospects. In ACS NANO. ISSN 1936-0851, OCT 19 2023, vol. 17, no. 21, p. 20753-20775. Dostupné na:

<https://doi.org/10.1021/acsnano.3c04366>, Registrované v: WOS

ADCA418

PEIKERTO VÁ, P. - KUKUTSCHOVÁ, J. - VÁVRA, Ivo - MATĚJKA, V. - ŽIVOTSKÝ, O. - VACULÍK, M. - LEE, P.W. - FILIP, P. Water suspended nanosized particles released from nonairborne brake wear debris. In Wear, 2013, vol. 306, p. 89-96. (2012: 1.262 - IF, Q2 - JCR, 1.345 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0043-1648. Dostupné na:

<https://doi.org/10.1016/j.wear.2013.07.008>

Citácie:

1. [1.1] CARLEVARIS, D. - LEONARDI, M. - STRAFFELINI, G. - GIALANELLA, S. Design of a friction material for brake pads based on rice husk and its derivatives. In WEAR. ISSN 0043-1648, AUG 15 2023, vol. 526. Dostupné na:

<https://doi.org/10.1016/j.wear.2023.204893>, Registrované v: WOS

ADCA419

PEKARČÍKOVÁ, M.** - MICHALCOVÁ, E. - FROLEK, Lubomír - ŠOUC, Ján - GOGOLA, P. - DRIENOVSKÝ, M. - SKARBA, M. - MIŠÍK, J. - GÖMÖRY, Fedor. Effect of mechanical loading on coated conductor tapes due to winding onto round cables. In IEEE Transactions on Applied Superconductivity, 2018, vol. 28, no. 8400505. (2017: 1.288 - IF, Q3 - JCR, 0.408 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na:

<https://doi.org/10.1109/TASC.2018.2795894>

Citácie:

1. [1.1] GAO, P.F. - ZHANG, Y.M. - WANG, X.Z. - ZHOU, Y.H. Interface properties and failures of REBCO coated conductor tapes: Research progress and challenges. In SUPERCONDUCTIVITY. DEC 2023, vol. 8. Dostupné na:

<https://doi.org/10.1016/j.supcon.2023.100068>, Registrované v: WOS

2. [1.1] PARK, S.Y. - KIM, G.W. - JEONG, J.S. - CHOI, H.S. *The Structural and Electromagnetic Comparative Analysis of the Bifilar-Meander-Type Winding Method of Superconducting DC Circuit Breaker*. In *ENERGIES*. FEB 2023, vol. 16, no. 4. Dostupné na: <https://doi.org/10.3390/en16041866>, Registrované v: WOS

ADCA420

PEKARČÍKOVÁ, M. - DRIENOVSKÝ, M.** - KRAJČOVIČ, Jozef - MIŠÍK, J. - CUNINKOVÁ, E. - HÚLAN, Tomáš - BOŠÁK, O. - VOJENČIAK, Michal. Analysis of thermo-physical properties of materials suitable for thermal stabilization of superconducting tapes for high-voltage superconducting fault current limiters. In *Journal of Thermal Analysis and Calorimetry*, 2019, vol. 138, p. 4375–4383. (2018: 2.471 - IF, Q2 - JCR, 0.634 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1388-6150. Dostupné na: <https://doi.org/10.1007/s10973-019-08309-2>

Citácie:

1. [1.1] MALGINOV, V.A. *Normal Zone Propagation and Heating under Current Overload in High-Temperature Superconducting Tapes with Epoxy Coating*. In *BULLETIN OF THE LEBEDEV PHYSICS INSTITUTE*. ISSN 1068-3356, JAN 2023, vol. 50, no. 1, p. 1-6. Dostupné na:

<https://doi.org/10.3103/S1068335623010049>, Registrované v: WOS

2. [1.1] TIXADOR, P. - VIALLE, J. - ZAMPA, A. - BADEL, A. *Stabilizers for REBCO Conductors for High Performance SFCL*. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, NOV 2023, vol. 33, no. 8.

Dostupné na: <https://doi.org/10.1109/TASC.2023.3312052>, Registrované v: WOS

ADCA421

PEKARČÍKOVÁ, M.** - MIŠÍK, J. - DRIENOVSKÝ, M. - KRAJČOVIČ, J. - VOJENČIAK, Michal - BÚRAN, Marek - MOŠAŤ, Marek - HÚLAN, Tomáš - SKARBA, M. - CUNINKOVÁ, E. - GÖMÖRY, Fedor. Composite heat sink material for superconducting tape in fault current limiter applications. In *Materials*, 2020, vol. 13, art. no. 1832. (2019: 3.057 - IF, Q2 - JCR, 0.647 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1996-1944. Dostupné na: <https://doi.org/10.3390/ma13081832> (H2020 FASTGRID. VEGA 1/0151/17)

Citácie:

1. [1.1] NUNES, L.G.S. - PASSOS, C.A.C. - ORLANDO, M.T.D. - CHAGAS, J.V.S. - SALUSTRE, M.G.D.M. - GALVA, E.S. *Sintering process and characterization of the SmBaCuO/Al composite*. In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*. ISSN 0921-4534, APR 15 2023, vol. 607. Dostupné na: <https://doi.org/10.1016/j.physc.2023.1354243>, Registrované v: WOS

2. [1.1] TIXADOR, P. - VIALLE, J. - ZAMPA, A. - BADEL, A. *Stabilizers for REBCO Conductors for High Performance SFCL*. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, NOV 2023, vol. 33, no. 8.

Dostupné na: <https://doi.org/10.1109/TASC.2023.3312052>, Registrované v: WOS

3. [1.1] TIXADOR, P. *Fault current limiter based on high temperature superconductors*. In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*. ISSN 0921-4534, DEC 15 2023, vol. 615. Dostupné na:

<https://doi.org/10.1016/j.physc.2023.1354398>, Registrované v: WOS

ADCA422

PERNÝ, M.** - ŠÁLY, V. - ĐURMAN, V. - PACKA, J. - KURCZ, J. - MIKOLÁŠEK, M. - HURAN, Jozef. Electrical response of silicon heterojunction solar cells with transparent conductive oxide antireflective coating. In *Acta Physica Polonica A*, 2021, vol. 139, p. 29-45. (2020: 0.577 - IF, Q4 - JCR, 0.217 - SJR, Q4 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1898-794X. Dostupné na: <https://doi.org/10.12693/APhysPolA.139.39>

Citácie:

1. [1.2] *HEBALI, M. - BENNAOUM, M. - AZZEDDINE, H. A. - IBARI, B. - MAACHOU, A. - CHALABI, D. Improving the Electrical Properties of ITO/Si/GaAs/Si/ITO Solar Cell by Changing the GaAs Layer Position. In Journal of Nano- and Electronic Physics, 2023-01-01, 15, 1, pp. ISSN 20776772.*

Dostupné na: [https://doi.org/10.21272/jnep.15\(1\).01023](https://doi.org/10.21272/jnep.15(1).01023), Registrované v: SCOPUS

- ADCA423 PÍSEČNÝ, Pavol - HUŠEKOVÁ, Kristína - FRÖHLICH, Karol - HARMATHA, L. - ŠOLTÝS, Ján - MACHAJDÍK, Daniel - ESPINOS, J.P. - JERGEL, Matej - JAKABOVIČ, J. Growth of lanthanum oxide films for application as a gate dielectric in CMOS technology. In *Materials science in semiconductor processing*, 2004, vol. 7, no. 4-6, p. 231-236. Dostupné na: <https://doi.org/10.1016/j.mssp.2004.09.020>

Citácie:

1. [1.1] *HAMAD, H. Arrak - DAKHEL, A. A. Comparative study on the creation of ferromagnetic properties in Fe/Co-doped lanthanum-oxide ceramics: role of the hydrogenation. In JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, 2023, vol. 59, no. 5, pp. 1285-1289. ISSN 2510-1560. Dostupné na: <https://doi.org/10.1007/s41779-023-00908-5>, Registrované v: WOS*

- ADCA424 PITEL, Jozef. Differences between two definitions of the critical current of HTS coils. In *Superconductor Science and Technology*, 2013, vol. 26, 125002. (2012: 2.758 - IF, Q1 - JCR, 1.535 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/26/12/125002>

Citácie:

1. [1.2] *FENG, Qianmei - PENG, Shenglin - LIN, Ying - CHEN, Siwei - PAIDPILLI, Mahesh - GOEL, Chirag - GALSTYAN, Eduard - SELVAMANICKAM, Venkat. Reinforcement learning for real-time process control in high-temperature superconductor manufacturing. In International Journal of Advanced Manufacturing Technology, 2023-11-01, 129, 5-6, pp. 2215-2225. ISSN 02683768. Dostupné na: <https://doi.org/10.1007/s00170-023-12369-y>, Registrované v: SCOPUS*

2. [1.2] *VERMEER, C. H. - TOLBOOM, A. H. - OTTEN, S. J. - G KROOSHOOP, H. J. - LUBKEMANN, R. - LEFERINK, J. - WESSEL, W. A.J. - NIJHUIS, A. - GODEKE, A. - WALPOLE, M. - HEESE, J. - HAYASHI, K. - SHIZUYA, E. Predictable and robust performance of a Bi-2223 superconducting coil for compact isochronous cyclotrons. In Superconductor Science and Technology, 2023-04-01, 36, 4, pp. ISSN 09532048. Dostupné na: <https://doi.org/10.1088/1361-6668/acba4c>, Registrované v: SCOPUS*

- ADCA425 PLECENIK, Andrej - GRAJCAR, M. - BENÁČKA, Štefan - SEIDEL, P. - PFUCH, A. Surface characterization of high-Tc superconductors using YBa₂Cu₃O_x/Au and Bi₂Sr₂CaCu₂O_y/Au point contacts. In *Physical Review B*, 1994, vol. 49, no. 14, p. 10016. (1993: 3.159 - IF, karentované - CCC). (1994 - Current Contents). ISSN 1550-235X.

Citácie:

1. [1.1] *HU, X.M. - ZHANG, F. - HOU, X.Y. - DONG, Q.S. - WANG, S.F. - HAN, T. - CHENG, L.X. - CHENG, F. - GE, B.H. - LONG, M.S. - DING, F. - ZHU, X.D. - SHAN, L. A new methodology for studying vortex dynamics based on point-contact spectroscopy. In REVIEW OF SCIENTIFIC INSTRUMENTS. ISSN 0034-6748, APR 1 2023, vol. 94, no. 4. Dostupné na: <https://doi.org/10.1063/5.0138882>, Registrované v: WOS*

2. [1.1] *LI, H. - YANG, X.J. Shot noise in topological insulator-based*

ferromagnet/p-wave superconductor junctions. In PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS. ISSN 0921-4534, NOV 15 2023, vol. 614. Dostupné na: <https://doi.org/10.1016/j.physc.2023.1354381>, Registrované v: WOS

3. [1.1] NIGRO, A. - GUARINO, A. - LEO, A. - GRIMALDI, G. - AVITABILE, F. - ROMANO, P. *Point-Contact Spectroscopy in Bulk Samples of Electron-Doped Cuprate Superconductors. In MATERIALS. DEC 2023, vol. 16, no. 24. Dostupné na: <https://doi.org/10.3390/ma16247644>, Registrované v: WOS*

4. [1.1] PIATTI, E. - TORSELLO, D. - GHIGO, G. - DAGHERO, D. *Spectroscopic studies of the superconducting gap in the 12442 family of iron-based compounds (Review article). In LOW TEMPERATURE PHYSICS. ISSN 1063-777X, JUL 2023, vol. 49, no. 7, p. 770-785. Dostupné na: <https://doi.org/10.1063/10.0019688>, Registrované v: WOS*

5. [1.1] PRISTÁŠ, G. - BACKAI, J. - ORENDÁČ, M. - GABÁNI, S. - KOSUTH, F. - KUZMIAK, M. - SZABÓ, P. - GAZO, E. - FRANZ, R. - HIRN, S. - GRUBER, G.C. - MITTERER, C. - VOROBIOV, S. - FLACHBART, K. *Superconductivity in medium- and high-entropy alloy thin films: Impact of thickness and external pressure. In PHYSICAL REVIEW B. ISSN 2469-9950, JAN 1 2023, vol. 107, no. 2. Dostupné na: <https://doi.org/10.1103/PhysRevB.107.024505>, Registrované v: WOS*

6. [1.1] SAMUELY, P. - SZABO, P. *Point-contact spectroscopy in the Centre of Low Temperature Physics Kosice (Review article). In LOW TEMPERATURE PHYSICS. ISSN 1063-777X, JUL 2023, vol. 49, no. 7, p. 761-769. Dostupné na: <https://doi.org/10.1063/10.0019687>, Registrované v: WOS*

7. [1.1] WANG, H. - LI, Y. - JI, H.R. - LUO, J.W. - YAN, D.Y. - SHI, Y.G. - WANG, J. *Point-contact Andreev reflection measurements on ZrRuAs single crystals. In LOW TEMPERATURE PHYSICS. ISSN 1063-777X, JUL 2023, vol. 49, no. 7, p. 841-846. Dostupné na: <https://doi.org/10.1063/10.0019695>, Registrované v: WOS*

8. [1.2] Burzo, E.: *Rare Earths-Transition Metals-Boron Compounds: Basic Properties to Technical Applications (Book) In Rare Earths-Transition Metals-Boron Compounds: Basic Properties to Technical Applications (2023) pp. 1-539, Registrované v: SCOPUS*

ADCA426 PLECENÍK, Andrej - DARULA, Marian - BEŇAČKA, Štefan. Multigap structure measured by tunneling spectroscopy on the YBa₂Cu₃O_x materials. In *Physica Status Solidi A*, 1992, vol. 132, p. 445.

Citácie:

1. [1.1] TARENKOV, V. - SHAPOVALOV, A. - ZHITLUKHINA, E. - BELOGOLOVSKII, M. - SEIDEL, P. *Mo-Re alloy: A new benchmark two-band superconductor. In LOW TEMPERATURE PHYSICS. ISSN 1063-777X, JAN 2023, vol. 49, no. 1, p. 103-107. Dostupné na:*

<https://doi.org/10.1063/10.0016483>, Registrované v: WOS

ADCA427 PLECENIK, T. - MOŠKO, Martin - HAIDRY, A.A. - ĎURINA, P. - TRUCHLY, M. - GRANČIČ, B. - GREGOR, M. - ROCH, T. - SATRAPINSKY, L. - MOŠKOVÁ, Antónia - MIKULA, M. - KÚŠ, P. - PLECENIK, Andrej. Fast highly-sensitive room-temperature semiconductor gas sensor based on the nanoscale Pt-TiO₂-Pt sandwich. In *Sensors and Actuators B*, 2015, vol. 207, p. 351-361. (2014: 4.097 - IF, Q1 - JCR, 1.229 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0925-4005. Dostupné na: <https://doi.org/10.1016/j.snb.2014.10.003>

Citácie:

1. [1.1] ZHAO, J.T. - SONG, J.N. - LU, X.L. - WU, M.H. - YAN, Z.Q. - CHEN, F. - CHEN, W.P. *Room-Temperature Hydrogen-Sensitive Pt-SnO₂ Composite*

- Nanoceramics: Contrasting Roles of Pt Nano-Catalysts Loaded via Two Different Methods. In INORGANICS. SEP 2023, vol. 11, no. 9. Dostupné na: <https://doi.org/10.3390/inorganics11090366>, Registrované v: WOS*
- ADCA428 PLECHÁČEK, V. - GÖMÖRY, Fedor. Magnetic field dependence of critical current density of Bi-Pb-Sr-Ca-Cu-O polycrystalline superconductor. In Solid State Communication, 1990, vol. 73, p. 349.
- Citácie:
1. [1.1] TARANTINI, C. - OLOYE, T.A. - HOSSAIN, S.I. - KAMETANI, F. - JIANG, J.Y. - HELLSTROM, E.E. - LARBALESTIER, D.C. *ac susceptibility studies of intra- and intergrain properties of high-Jc Bi-2212 wires. In PHYSICAL REVIEW MATERIALS. ISSN 2475-9953, JAN 9 2023, vol. 7, no. 1. Dostupné na: <https://doi.org/10.1103/PhysRevMaterials.7.014802>, Registrované v: WOS*
- ADCA429 POLÁK, Milan - HLÁŠNIK, Ivan - KREMPASKÝ, Ludovít. Voltage-current characteristics of NbTi and Nb3Sn superconductors in the flux creep region. In Cryogenics, 1973, vol. 13, p. 702-706.
- Citácie:
1. [1.1] ROMANOVSKII, V.R. - MAKARENKO, M.N. *Mechanisms of Destruction of Superconducting Properties of High-Temperature Superconductors Cooled with Liquid Coolants under Input of AC. In PHYSICS OF ATOMIC NUCLEI. ISSN 1063-7788, DEC 2023, vol. 86, no. SUPPL 2, p. S253-S261. Dostupné na: <https://doi.org/10.1134/S1063778823140119>, Registrované v: WOS*
2. [1.1] ROMANOVSKII, V.R. *Nonlinear Dissipative Effects of Stable Current Penetration into Technical Superconductor. In PHYSICS OF ATOMIC NUCLEI. ISSN 1063-7788, DEC 2023, vol. 86, no. 7, p. 1601-1606. Dostupné na: <https://doi.org/10.1134/S1063778823070189>, Registrované v: WOS*
3. [1.2] Romanovskii, V.R., Makarenko, M.N.: *DESTRUCTION MECHANISMS OF SUPERCONDUCTIVITY OF HIGH-TEMPERATURE SUPERCONDUCTORS COOLED BY LIQUID COOLANT DURING AC CURRENT CHARGING | [МЕХАНИЗМЫ РАЗРУШЕНИЯ СВЕРХПРОВОДИМОСТИ ВЫСОКОТЕМПЕРАТУРНЫХ СВЕРХПРОВОДНИКОВ, ОХЛАЖДАЕМЫХ ЖИДКИМИ ХЛАДАГЕНТАМИ, ПРИ ВВОДЕ ПЕРЕМЕННОГО ТОКА]* In *Problems of Atomic Science and Technology, Series Thermonuclear Fusion 46(2023)*, pp. 87-96, Registrované v: SCOPUS
4. [1.2] Romanovskii, V.R.: *ABOUT CURRENT-CARRYING CAPACITY OF SUPERCONDUCTORS WITH SMOOTHED VOLTAGE-CURRENT CHARACTERISTIC | [О ТОКОНЕСУЩЕЙ СПОСОБНОСТИ СВЕРХПРОВОДНИКОВ С РАЗМЫТОЙ ВОЛЬТ-АМПЕРНОЙ ХАРАКТЕРИСТИКОЙ]* In *Problems of Atomic Science and Technology, Series Thermonuclear Fusion 46(2023)*, pp. 81-91, Registrované v: SCOPUS
- ADCA430 POLÁK, Milan - BARNES, P.N. - LEVIN, G.A. YBCO/Ag boundary resistivity in YBCO tapes with metallic substrates. In *Superconductor Science and Technology*. - Bristol : IOP Publishing, 2006, vol. 19, p. 817-820. (2005: 1.896 - IF, Q1 - JCR, 1.409 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:
1. [1.1] ATAKE, Y. - ITO, S. - TAKAHASHI, K. - HASHIZUME, H. *Evaluation of the Interface Resistance on Heated REBCO Tape. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3240387>, Registrované v: WOS*
- ADCA431 POLÁK, Milan - DEMENČÍK, Eduard - JANŠÁK, Lubomil - MOZOLA, Pavol - AIZED, D. - THIEME, C.L.H. - LEVIN, G.A. - BARNES, P.N. *Ac losses in a*

YBa₂Cu₃O_{7-x} coil. In Applied Physics Letters, 2006, vol. 88, no. 232501. (2005: 4.127 - IF, Q1 - JCR, 3.755 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, SCOPUS). ISSN 0003-6951.

Citácie:

1. [1.1] BALACHANDRAN, T. - ZHAO, Y.M. - SIRIMANNA, S. - XIAO, J.Q. - HARAN, K.S. *Designing and Commissioning an Experimental Setup to Evaluate AC Losses in Superconductors Under Transverse Rotating Fields. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3261840>, Registrované v: WOS*

ADCA432 POLÁK, Milan - ZHANG, W. - PARRELL, J.A. - CAI, X.Y. - POLYANSKII, A. - HELLSTROM, E.E. - LARBALESTIER, D.C. - MAJOROŠ, Milan. Current transfer lengths and the origin of linear components in the voltage-current curves of Ag-sheathed BSCCO composites. In Superconductor Science and Technology, 1997, vol. 10, p. 769. (1996: 1.447 - IF, karentované - CCC). (1997 - Current Contents, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] ATAKE, Y. - ITO, S. - TAKAHASHI, K. - HASHIZUME, H. *Evaluation of the Interface Resistance on Heated REBCO Tape. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3240387>, Registrované v: WOS*

ADCA433 POLÁK, Milan - BARNES, P.N. - MOZOLA, Pavol - LEVIN, G.A. Critical current in YBCO coated conductors in the presence of a macroscopic defekt. In IEEE Transactions on Applied Superconductivity, 2009, vol. 19, p. 2921-2934. (2008: 0.919 - IF, Q3 - JCR, 0.884 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, SCOPUS).

Citácie:

1. [1.1] XUE, S. - MAJOROS, M. - SUMPTION, M.D. - GARG, T. - COLLINGS, E.W. *FEM Analysis of Current Sharing in REBCO Coated Conductor Cables for Particle Accelerator Applications. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3253666>, Registrované v: WOS*

2. [1.2] SOGABE, Y. - AMEMIYA, N. *Influence of low electric field parts of electric field-current density curves of superconductors on their ac loss characteristics. In Journal of Physics: Conference Series, 2023-01-01, 2545, 1, pp. ISSN 17426588. Dostupné na: <https://doi.org/10.1088/1742-6596/2545/1/012029>, Registrované v: SCOPUS*

3. [1.2] XUE, S. - MAJOROS, M. - SUMPTION, M. D. - GARG, T. - COLLINGS, E. W. *FEM Analysis of Current Sharing in REBCO Coated Conductor Cables for Particle Accelerator Applications. In IEEE Transactions on Applied Superconductivity, 2023-08-01, 33, 5, pp. ISSN 10518223. Dostupné na: <https://doi.org/10.1109/TASC.2023.3253666>, Registrované v: SCOPUS*

ADCA434 PORGES, Marcel - ŠAFRÁNKOVÁ, Jaroslava - LALINSKÝ, Tibor - KOSTIČ, Ivan - RANGELOW, I.W. - TEGUDE, F.J. - JAGER, D. Asymmetric (Schottky-ohmic) MSM photodetector. In Solid-State Electronics, 1995, vol. 38, p. 425-427. (1994: 0.760 - IF, karentované - CCC). (1995 - Current Contents). ISSN 0038-1101. Dostupné na: [https://doi.org/10.1016/0038-1101\(94\)E0082-P](https://doi.org/10.1016/0038-1101(94)E0082-P)

Citácie:

1. [1.1] HU, Tianguai - ZHAO, Lixia - WANG, Yujing - LIN, Hailong - XIE, Shihong - HU, Yin - LIU, Chang - ZHU, Wenkai - WEI, Zhongming - LIU, Jian - WANG, Kaiyou. *High-Sensitivity and Fast-Speed UV Photodetectors Based on Asymmetric Nanoporous-GaN/Graphene Vertical Junction. In ACS Nano, 2023-*

05-09, 17, 9, pp. 8411-8419. ISSN 19360851. Dostupné na:

<https://doi.org/10.1021/acsnano.3c00263>, Registrované v: WOS

ADCA435 POZZOVIVO, G. - KUZMÍK, Ján - GOLKA, S. - SCHRENK, W. - STRASSER, G. - POGANY, D. - ČIČO, Karol - ĽAPAJNA, Milan - FRÖHLICH, Karol - CARLIN, J.-F. - GONSCHOREK, M. - FELTIN, E. - GRANDJEAN, N. Gate insulation and drain current saturation mechanism in InAlN/GaN metal-oxide-semiconductor high-electron-mobility transistors. In Applied Physics Letters, 2007, vol. 91, no. 043509. (2006: 3.977 - IF, Q1 - JCR, 3.459 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents, SCOPUS). ISSN 0003-6951.

Citácie:

1. [1.1] KHAN, A.N. - MISHRA, S.N. - ROUTRAY, S. - CHATTERJEE, G. - JENA, K. Analytical modeling and simulation of lattice-matched Ferro PZT AlGaIn/GaN MOSHEMT for high-power and RF/Microwave applications. In JOURNAL OF COMPUTATIONAL ELECTRONICS. ISSN 1569-8025, JUN 2023, vol. 22, no. 3, p. 827-838. Dostupné na: <https://doi.org/10.1007/s10825-023-02024-w>,

Registrované v: WOS

2. [1.1] OZAKI, S. - KUMAZAKI, Y. - OKAMOTO, N. - NAKASHA, Y. - HARA, N. - OHKI, T. Surface-oxide-controlled InGaAs/InAlAs inverted-type metal-oxide-semiconductor high electron mobility transistors for sub-THz high-power amplifiers. In JAPANESE JOURNAL OF APPLIED PHYSICS. ISSN 0021-4922, APR 1 2023, vol. 62, no. 3C. Dostupné na: <https://doi.org/10.35848/1347-4065/acaed6>, Registrované v: WOS

3. [1.1] OZAKI, S. - KUMAZAKI, Y. - OKAMOTO, N. - NAKASHA, Y. - OHKI, T. - HARA, N. Effect of oxidant sources on carbon-related impurities in ALD-Al₂O₃ for solid-state devices. In APPLIED PHYSICS EXPRESS. ISSN 1882-0778, SEP 1 2023, vol. 16, no. 9. Dostupné na: <https://doi.org/10.35848/1882-0786/acf486>, Registrované v: WOS

ADCA436 PRECNER, Marián - POLAKOVIČ, T. - QIAO, Q. - TRAINER, D. - PUTILOV, A.V. - DI GIORGIO, C. - CONE, I. - ZHU, Y. - XI, X.X. - IAVARONE, M. - KARAPETROV, Goran**. Evolution of metastable defects and its effect on the electronic properties of MoS₂ films. In Scientific Reports, 2018, vol. 8, no. 6724. (2017: 4.122 - IF, Q1 - JCR, 1.533 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-018-24913-y>

Citácie:

1. [1.1] HARRIS, S.B. - LIN, Y.C. - PURETZKY, A.A. - LIANG, L.B. - DYCK, O. - BERLIJN, T. - ERES, G. - ROULEAU, C.M. - XIAO, K. - GEOHEGAN, D.B. Real-Time Diagnostics of 2D Crystal Transformations by Pulsed Laser Deposition: Controlled Synthesis of Janus WSe Monolayers and Alloys. In ACS NANO. ISSN 1936-0851, FEB 14 2023, vol. 17, no. 3, p. 2472-2486. Dostupné na: <https://doi.org/10.1021/acsnano.2c09952>, Registrované v: WOS

2. [1.1] JEONG, J.H. - JUNG, Y. - PARK, J.U. - LEE, G.H. Gate-Tunable Electrostatic Friction of Grain Boundary in Chemical-Vapor-Deposited MoS₂. In NANO LETTERS. ISSN 1530-6984, APR 12 2023, vol. 23, no. 7, p. 3085-3089. Dostupné na: <https://doi.org/10.1021/acs.nanolett.2c04958>, Registrované v: WOS

3. [1.1] NAJAFI, L. - BELLANI, S. - ZAPPIA, M.I. - SERRI, M. - OROPESA-NUÑEZ, R. - BAGHERI, A. - BEYDAGHI, H. - BRESCIA, R. - PASQUALE, L. - SHINDE, D.V. - ZUO, Y. - DRAGO, F. - MOSINA, K. - SOFER, Z. - MANNA, L. - BONACCORSO, F. Transition metal dichalcogenides as catalysts for the hydrogen evolution reaction: The emblematic case of "inert" ZrSe₂ as catalyst for electrolyzers. In NANO SELECT. JUN 2022, vol. 3, no. 6, p. 1069-1081. Dostupné na: <https://doi.org/10.1002/nano.202100364>, Registrované v: WOS

4. [1.1] *NECHIYL, D. - GOKUL, M.A. - SHUKLA, A. - KUMAR, G.V.P. - RAHMAN, A. Strain-enabled defect migration and defect activation in monolayer MoS₂. In 2D MATERIALS. ISSN 2053-1583, OCT 1 2023, vol. 10, no. 4. Dostupné na: <https://doi.org/10.1088/2053-1583/aceb74>, Registrované v: WOS*
- ADCA437 *PRECNER, Marián - FEDOR, Ján - TÓBIK, Jaroslav - ŠOLTÝS, Ján - CAMBEL, Vladimír. High resolution tips for switching magnetization MFM. In Acta Physica Polonica A, 2014, vol. 126, p. 386-387. (2013: 0.604 - IF, Q4 - JCR, 0.345 - SJR, Q3 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 1898-794X. Dostupné na: <https://doi.org/10.12693/APhysPolA.126.386>*
 Citácie:
 1. [1.2] *CHOI, Jeong Woo - CHO, Hyeon Yeol. New Sensing Technologies: Biosensors Based on Magnetic Nanoparticles and Magnetic Force Microscopy. In Encyclopedia of Sensors and Biosensors: Volume 1-4, Elsevier 2023-01-01, 1-4, pp. 572-580. Dostupné na: <https://doi.org/10.1016/B978-0-12-822548-6.00100-X>, Registrované v: SCOPUS*
- ADCA438 *PRECNER, Marián - FEDOR, Ján - ŠOLTÝS, Ján - CAMBEL, Vladimír. Dual-tip magnetic force microscopy with suppressed influence on magnetically soft samples. In Nanotechnology, 2015, vol. 26, 55304. (2014: 3.821 - IF, Q1 - JCR, 1.497 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0957-4484. Dostupné na: <https://doi.org/10.1088/0957-4484/26/5/055304>*
 Citácie:
 1. [1.1] *WINKLER, R. - CIRIA, M. - AHMAD, M. - PLANK, H. - MARCUELLO, C. A Review of the Current State of Magnetic Force Microscopy to Unravel the Magnetic Properties of Nanomaterials Applied in Biological Systems and Future Directions for Quantum Technologies. In NANOMATERIALS. SEP 2023, vol. 13, no. 18. Dostupné na: <https://doi.org/10.3390/nano13182585>, Registrované v: WOS*
- ADCA439 *PROCHAZKA, V.** - KULHA, P. - IZSÁK, Tibor - UKRAINTSEV, E. - VARGA, Marian - JIRÁSEK, V. - KROMKA, A. Detection of globular and fibrillar proteins by quartz crystal microbalance sensor coated with a functionalized diamond thin film. In Applied Surface Science, 2022, vol. 589, no. 153017. (2021: 7.392 - IF, Q1 - JCR, 1.147 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, CCC). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2022.153017>*
 Citácie:
 1. [1.1] *SILORI, G.K. - YU, H.F. - HUANG, Y.J. - HO, K.C. Fluorinated benzyl viologens for enhanced electrochromism and remarkable stability in electrochromic devices: An in-situ mass exchange probing through EQCM. In SOLAR ENERGY MATERIALS AND SOLAR CELLS. ISSN 0927-0248, SEP 15 2023, vol. 260. Dostupné na: <https://doi.org/10.1016/j.solmat.2023.112460>, Registrované v: WOS*
 2. [1.1] *YIN, S.P. - SIAHAAN, E.A. - NIU, L.Q. - SHIBATA, M. - LIU, Y.F. - HAGIWARA, T. Real time monitoring and evaluation of the inhibition effect of fucoxanthin against α -amylase activity by using QCM-A. In FRONTIERS IN NUTRITION. ISSN 2296-861X, JAN 12 2023, vol. 9. Dostupné na: <https://doi.org/10.3389/fnut.2022.1110615>, Registrované v: WOS*
- ADCA440 *PRYADUN, V.V. - GUERRERO, R. - ALIEV, F.G. - VILLAR, R. - VOLODIN, A. - HAESENDOCK, C. van - VÁVRA, Ivo. Low frequency magnetic noise in epitaxial antiferromagnetically coupled Fe/Cr multilayers. In Journal of Magnetism and Magnetic Materials, 2002, vol. 240, p. 165-167. (2001: 1.329 - IF, karentované - CCC). (2002 - Current Contents, WOS, SCOPUS). ISSN 0304-8853.*
 Citácie:
 1. [1.2] *KAWAZOE, Yoshiyuki - NOTE, Ryunosuke. Magnetic properties of*

metals: Magnetic and electric properties of magnetic metallic multilayers: A supplement to Landolt-Börnstein III/32 series. In Magnetic Properties of Metals: Magnetic and Electric Properties of Magnetic Metallic Multilayers: A Supplement to Landolt-Börnstein III/32 Series, 2023-06-06, pp. 1-1054. Dostupné na: <https://doi.org/10.1007/978-3-662-64909-1>, Registrované v: SCOPUS

ADCA441 PUDIŠ, D. - ŠUŠLIK, L. - ŠKRINIAROVÁ, Jaroslava - KOVÁČ, Jaroslav - KOVÁČ, Jaroslav Jr. - KUBICOVÁ, I. - MARTINČEK, I. - HAŠČÍK, Štefan - SCHAAF, P. Effect of 2D photonic structure patterned in the LED surface on emission properties. In Applied Surface Science, 2013, vol. 269, p. 161-165. (2012: 2.112 - IF, Q1 - JCR, 0.913 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2012.10.030>

Citácie:

1. [1.1] WANG, K.L. - DONG, X.Y. - BU, Y.Y. - WANG, X.F. Design of photonic crystals for light-emitting diodes. In JOURNAL OF THE AMERICAN CERAMIC SOCIETY. ISSN 0002-7820, DEC 2023, vol. 106, no. 12, p. 7146-7188. Dostupné na: <https://doi.org/10.1111/jace.19388>, Registrované v: WOS

ADCA442 RAJŇÁK, Michal - KURIMSKÝ, Juraj - DOLNÍK, Bystrík - MARTON, Karol - TOMČO, Ladislav - TACULESCU, A. - VÉKÁS, Ladislav - KOVÁČ, Jozef - VÁVRA, Ivo - TÓTHOVÁ, Jana - KOPČANSKÝ, Peter - TIMKO, Milan. Dielectric response of transformer oil based ferrofluid in low frequency range. In Journal of Applied Physics, 2013, vol. 114, no. 3, art. no. 034313. (2012: 2.210 - IF, Q1 - JCR, 1.312 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/1.4816012>

Citácie:

1. [1.1] SAHA, P. - MANDAL, K. Magnetic field stimulated dielectric, electronic and thermal properties of magnetite nano-hollow spheres based magnetorheological fluids. In JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS. ISSN 0304-8853, JAN 1 2023, vol. 565. Dostupné na: <https://doi.org/10.1016/j.jmmm.2022.170237>, Registrované v: WOS

ADCA443 RIES, Rastislav** - SEILER, Eugen - GÖMÖRY, Fedor - MEDVIDS, A. - ONUFRIJEVS, P. - PIRA, C. - CHYHYRYNETS, E. - MALYSHEV, O.B. - VALIZADEH, R. Improvement of the first flux entry field by laser post-treatment of the thin Nb film on Cu. In Superconductor Science and Technology, 2021, vol. 34, no. 065001. (2020: 3.219 - IF, Q2 - JCR, 1.033 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/abf54d>

Citácie:

1. [1.1] XIE, W. - LIU, Y.H. - FAN, X.W. - WEN, H.H. Significant improvement of the lower critical field in Y doped Nb: potential replacement of basic material for the radio-frequency superconducting cavity. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, JUL 1 2023, vol. 36, no. 7. Dostupné na: <https://doi.org/10.1088/1361-6668/acd608>, Registrované v: WOS

ADCA444 RIES, Rastislav** - SEILER, Eugen - GÖMÖRY, Fedor - MEDVIDS, A. - ONUFRIJEVS, P. - PIRA, C. - CHYHYRYNETS, E. - MALYSHEV, O.B. - VALIZADEH, R. Surface quality characterization of thin Nb films for superconducting radiofrequency cavities. In Superconductor Science and Technology, 2022, vol. 35, no. 075010. (2021: 3.464 - IF, Q2 - JCR, 0.826 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ac7261> (VEGA 2/0036/21)

Citácie:

1. [1.1] GUREVICH, A. Tuning microwave losses in superconducting resonators.

In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, JUN 1 2023, vol. 36, no. 6. Dostupné na: <https://doi.org/10.1088/1361-6668/acc214>, Registrované v: WOS

ADCA445 RIES, Rastislav** - GÖMÖRY, Fedor - MOŠAŤ, Marek - KUJOVIČ, Tomáš - HINTZE, C. - GIL, P. Effect of off-axis bending on microstructural and transport properties of coated conductor tape. In *Superconductor Science and Technology*, 2023, vol. 36, no. 014006. (2022: 3.6 - IF, Q2 - JCR, 1.191 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/aca6ad>

Citácie:

1. [1.1] *LI, Y.H. - MU, N.N. - TANG, S.Y. - ZHANG, Z.W. - ZHOU, J. - YONG, H.D. - ZHANG, X.Y. Deformation and crack prediction of CORC cable induced by Poisson effect: Theoretical modeling and experimental validation. In ENGINEERING FRACTURE MECHANICS. ISSN 0013-7944, NOV 15 2023, vol. 292. Dostupné na: <https://doi.org/10.1016/j.engfracmech.2023.109625>, Registrované v: WOS*

2. [1.1] *MA, J.T. - GAO, Y.W. Numerical analysis of the mechanical and electrical properties of (RE)BCO tapes with multiple edge cracks. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, SEP 1 2023, vol. 36, no. 9. Dostupné na: <https://doi.org/10.1088/1361-6668/ace8ca>, Registrované v: WOS*

ADCA446 RIFLIKOVÁ, Michaela - MARTOŇÁK, R. - TOSATTI, E. Pressure-induced gap closing and metallization of MoSe₂ and MoTe₂. In *Physical Review B*, 2014, vol. 90, 035108. (2013: 3.664 - IF, Q1 - JCR, 2.804 - SJR, Q3 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.90.035108>

Citácie:

1. [1.1] *YE, J.Q. - LUO, Q.Q. - LI, H.D. - FENG, Z. - DAI, X.Q. Tuning electronic and optical properties of BlueP/MoSe₂ van der Waals heterostructures by strain and external electric field. In RESULTS IN PHYSICS. ISSN 2211-3797, JAN 2023, vol. 44. Dostupné na: <https://doi.org/10.1016/j.rinp.2022.106135>, Registrované v: WOS*

2. [1.2] *MENG, Lingyao - VU, Tuan V. - CRISCENTI, Louise J. - HO, Tuan A. - QIN, Yang - FAN, Hongyou. Theoretical and Experimental Advances in High-Pressure Behaviors of Nanoparticles. In Chemical Reviews, 2023-08-23, 123, 16, pp. 10206-10257. ISSN 00092665. Dostupné na: <https://doi.org/10.1021/acs.chemrev.3c00169>, Registrované v: SCOPUS*

3. [1.2] *WU, Zhen - WANG, Yuxi - DOU, Yunjie - ZHOU, Lin - ZHU, Jia. Property modulations of two-dimensional materials under compression. In Nano Research Energy, 2023-12-01, 2, 4, pp. ISSN 27910091. Dostupné na: <https://doi.org/10.26599/NRE.2023.9120080>, Registrované v: SCOPUS*

ADCA447 ROCH, T. - DOBROČKA, Edmund - MIKULA, M. - PIDÍK, A. - ĎURINA, P. - HADRY, A.A. - PLECENIK, T. - TRUCHLY, M. - GRANČIČ, B. - PLECENÍK, A. - KÚŠ, P. Strong biaxial texture and polymorph nature in TiO₂ thin film formed by ex-situ annealing on c-plane Al₂O₃ surface. In *Journal of Crystal Growth*, 2012, vol. 338, 118-124. (2011: 1.726 - IF, Q2 - JCR, 0.962 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 0022-0248. Dostupné na: <https://doi.org/10.1016/j.jcrysgro.2011.10.053>

Citácie:

1. [1.1] *KUMARAGE, G.W.C. - HAKKOU, H. - COMINI, E. Recent Advancements in TiO₂ Nanostructures: Sustainable Synthesis and Gas Sensing. In NANOMATERIALS. APR 2023, vol. 13, no. 8. Dostupné na: <https://doi.org/10.3390/nano13081424>, Registrované v: WOS*

- ADCA448 ROLLEROVA, Eva - JURČOVIČOVÁ, Jana - MLYNARČÍKOVÁ, Alžbeta - SADLONOVA, Irina - BILANICOVA, Dagmar - WSOLOVA, Ladislava - KISS, Alexander - KOVRIZNYCH, Jevgenij - KRONEK, Juraj - ČIAMPOR, Fedor - VÁVRA, Ivo - SCSUKOVÁ, Soňa. Delayed adverse effects of neonatal exposure to polymeric nanoparticle poly (ethylene glycol)-block-poly lactide methyl ether on hypothalamic-pituitary-ovarian axis development and function in Wistar rats. In *Reproductive Toxicology : official journal of the European Teratology Society*, 2015, vol. 57, p. 165-175. (2014: 3.227 - IF, Q1 - JCR, 1.274 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0890-6238. Dostupné na: <https://doi.org/10.1016/j.reprotox.2015.07.072>
- Citácie:
 1. [1.1] *SHI, Meiyun - ZHENG, Xinyue - JIANG, Hui - GE, Yuncheng - ZHANG, Ning - DUAN, Xujian - LIU, Yajun - XUE, Hongyu - YOU, Jiansong - YIN, Lei. Unraveling the in/vivo biological fate of mPEG2000-PDLLA2500-COOH diblock copolymers by LC-MS/MS based on CID in source technique. In ANALYTICA CHIMICA ACTA, 2023, vol. 1267, no., pp. ISSN 0003-2670. Dostupné na: <https://doi.org/10.1016/j.aca.2023.341375>, Registrované v: WOS*
- ADCA449 ROSOVÁ, Alica - KULICH, Miloslav - KOVÁČ, Pavol - BRUNNER, Boris - SCHEITER, J. - HAESSLER, W. The effect of boron powder on the microstructure of MgB₂ filaments prepared by the modified internal magnesium diffusion technique. In *Superconductor Science and Technology*, 2017, vol. 30, no. 055001. (2016: 2.878 - IF, Q2 - JCR, 0.967 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/aa60f5>
- Citácie:
 1. [1.1] *GUO, C. - WANG, D.L. - ZHANG, X.P. - HAN, M. - TANG, M.H. - LIU, C. - LIU, X.Y. - LIU, F. - LIU, H.J. - MA, Y.W. - GAN, Z.Z. Kinetics mechanism on the efficiency of C substituting B in the MgB₂ tape fabrication. In MATERIALS TODAY PHYSICS. ISSN 2542-5293, SEP 2023, vol. 37. Dostupné na: <https://doi.org/10.1016/j.mtphys.2023.101217>, Registrované v: WOS*
- ADCA450 ROSTILA, L. - LEHTONEN, J. - MIKKONEN, R. - ŠOUC, Ján - SEILER, Eugen - MELIŠEK, Tibor - VOJENČIAK, Michal. How to determine critical current density in YBCO tapes from voltage-current measurements at low magnetic fields. In *Superconductor Science and Technology*, 2007, vol. 20, p. 1097-1100. (2006: 1.440 - IF, Q2 - JCR, 1.403 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents, SCOPUS). ISSN 0953-2048.
- Citácie:
 1. [1.1] *WANG, Y. - FANG, J. - SOGABE, Y. - BADCOCK, R.A. - STOREY, J.G. - JIANG, Z.A. Numerical Simulations on AC Loss of the REBCO Tape Under Rotating Magnetic Field. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 138052-138063. Dostupné na: <https://doi.org/10.1109/ACCESS.2023.3340731>, Registrované v: WOS*
 2. [1.2] *DE, Siyu - WANG, Qiusheng - LI, Huan - WANG, Yubin. A Critical Current Calculation Method of HTS Excitation Winding Considering the Effect of Self-Field. In 2023 26th International Conference on Electrical Machines and Systems, ICEMS 2023, 2023-01-01, pp. 3175-3180. Dostupné na: <https://doi.org/10.1109/ICEMS59686.2023.10345336>, Registrované v: SCOPUS*
- ADCA451 RUUSKANEN, J. - STENVALL, A. - LAHTINEN, V. - PARDO, Enric. Electromagnetic nonlinearities in a Roebel-cable-based accelerator magnet prototype: variational approach. In *Superconductor Science and Technology*, 2017, vol. 30, art. no. 024008. (2016: 2.878 - IF, Q2 - JCR, 0.967 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0953-2048. Dostupné na:

<https://doi.org/10.1088/1361-6668/30/2/024008>

Citácie:

1. [1.1] XUE, S. - KWON, J. - GUO, Y. - GARG, T. - SUMPTION, M.D. - COLLINGS, E.W. *Compressive Stress-Strain Behavior of REBCO Coated Conductors and Cables. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3247370>, Registrované v: WOS*

ADCA452

RÝGER, Ivan - VANKO, Gabriel - LALINSKÝ, Tibor - HAŠČÍK, Štefan - BENČUROVÁ, Anna - NEMEC, Pavol - ANDOK, Robert - TOMÁŠKA, M. GaN/SiC based surface acoustic wave structures for hydrogen sensors with enhanced sensitivity. In *Sensors and Actuators A: Physical*, 2015, vol. 227, p. 55-62. (2014: 1.903 - IF, Q1 - JCR, 0.866 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0924-4247. Dostupné na: <https://doi.org/10.1016/j.sna.2015.02.041>

Citácie:

1. [1.1] ZHANG, Jinxi - WU, Chen - ZHANG, Qiankun - LIU, Jing. *Mechano/acousto-electric coupling between ReS₂ and surface acoustic wave. In NANOTECHNOLOGY, 2023, vol. 34, no. 15, pp. ISSN 0957-4484. Dostupné na: <https://doi.org/10.1088/1361-6528/acb447>, Registrované v: WOS*

ADCA453

RÝGER, Ivan - VANKO, Gabriel - LALINSKÝ, Tibor - KUNZO, Pavol - VALLO, Martin - VÁVRA, Ivo - PLECENIK, T. Pt/NiO ring gate based Schottky diode hydrogen sensors with enhanced sensitivity and thermal stability. In *Sensors and Actuators B-Chemical*, 2014, vol. 202, p. 1-8. (2013: 3.840 - IF, Q1 - JCR, 1.242 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0925-4005. Dostupné na: <https://doi.org/10.1016/j.snb.2014.05.052>

Citácie:

1. [1.1] ABDULLAH, H. - YU, J.W. - SUPPIAH, A.R. - JURAIT, J. - YAHYA, I. - KAMAL, N. - BEJO, S.K. - OTHMAN, M.H.D. - FEN, Y.W. - AKHTARUZZAMAN, M. - AHMAD, M.F. - YULIARTO, B. *Nanocomposite Sensors of Polyaniline-Zn-Ag for the Detection of Pathogenic Leptospira Bacteria in Environmental Water. In JOURNAL OF ELECTRONIC MATERIALS. ISSN 0361-5235, OCT 2023, vol. 52, no. 12, p. 8191-8202. Dostupné na: <https://doi.org/10.1007/s11664-023-10738-7>, Registrované v: WOS*

2. [1.1] TAIB, A.K. - JOHARI, Z. - RAHMAN, S.F.A. - YUSOFF, M.F.M. - HAMZAH, A. *Hydrogen gas sensing performance of a carbon-doped boron nitride nanoribbon at elevated temperatures. In PLOS ONE. ISSN 1932-6203, MAR 10 2023, vol. 18, no. 3. Dostupné na: <https://doi.org/10.1371/journal.pone.0282370>, Registrované v: WOS*

ADCA454

RÝGER, Ivan** - LOBOTKA, Peter - STEIGER, A. - CHROMIK, Štefan - LALINSKÝ, Tibor - RAIDA, Z. - PÍTRA, K. - ZEHETNER, J. - ŠPANKOVÁ, Marianna - GAŽI, Štefan - SOJKOVÁ, Michaela - VANKO, Gabriel. Uncooled antenna-coupled microbolometer for detection of terahertz radiation. In *Journal of Infrared, Millimeter, and Terahertz Waves*, 2021, vol. 42, p. 462-478. (2020: 1.768 - IF, Q3 - JCR, 0.615 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1866-6892. Dostupné na: <https://doi.org/10.1007/s10762-021-00781-y>

Citácie:

1. [1.1] AJI, A.P. - APRIONO, C. - RAHARDJO, E.T. *Input Power and Effective Area in Terahertz Detector Measurement: A Review. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 29323-29343. Dostupné na: <https://doi.org/10.1109/ACCESS.2023.3260213>, Registrované v: WOS*

ADCA455

SAHA, S.** - ZELENT, M.** - FINIZIO, S. - MRUCZKIEWICZ, Michal - TACCHI, S. - SUSZKA, A.K. - WINTZ, S. - BINGHAM, N.S. - RAABE, J. -

KRAWCZYK, M. - HEYDERMAN, L.J. Formation of Néel-type skyrmions in an antidot lattice with perpendicular magnetic anisotropy. In *Physical Review B*, 2019, vol. 100, no. 144435. (2018: 3.736 - IF, Q1 - JCR, 1.502 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.100.144435>

Citácie:

1. [1.1] KUEPFERLING, M. - CASIRAGHI, A. - SOARES, G. - DURIN, G. - GARCIA-SANCHEZ, F. - CHEN, L. - BACK, C.H. - MARROWS, C.H. - TACCHI, S. - CARLOTTI, G. *Measuring interfacial Dzyaloshinskii-Moriya interaction in ultrathin magnetic films. In REVIEWS OF MODERN PHYSICS. ISSN 0034-6861, MAR 22 2023, vol. 95, no. 1. Dostupné na:*

<https://doi.org/10.1103/RevModphys.95.015003>, Registrované v: WOS

ADCA456

SAHOO, Prangya Parimita** - MIKOLÁŠEK, M. - HUŠEKOVÁ, Kristína - DOBROČKA, Edmund - ŠOLTÝS, Ján - ONDREJKA, P. - KEMENY, M. - HARMATHA, L. - MIČUŠÍK, Matej - FRÖHLICH, Karol. Si-based metal-insulator-semiconductor structures with RuO₂-(IrO₂) films for photoelectrochemical water oxidation. In *ACS Applied Energy Materials*, 2021, vol. 4, p. 11162-11172. (2020: 6.024 - IF, Q2 - JCR, 1.833 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2574-0962. Dostupné na:

<https://doi.org/10.1021/acsaem.1c02021>

Citácie:

1. [1.1] JUN, S.E. - KIM, Y.H. - KIM, J. - CHEON, W.S. - CHOI, S. - YANG, J. - PARK, H. - LEE, H. - PARK, S.H. - KWON, K.C. - MOON, J. - KIM, S.H. - JANG, H.W. *Atomically dispersed iridium catalysts on silicon photoanode for efficient photoelectrochemical water splitting. In NATURE COMMUNICATIONS. FEB 4 2023, vol. 14, no. 1. Dostupné na: <https://doi.org/10.1038/s41467-023-36335-0>, Registrované v: WOS*

2. [1.1] KIM, C. - KING, A.J. - ALONI, S. - TOMA, F.M. - WEBER, A.Z. - BELL, A.T. *Codesign of an integrated metal-insulator-semiconductor photocathode for photoelectrochemical reduction of CO₂ to ethylene. In ENERGY & ENVIRONMENTAL SCIENCE. ISSN 1754-5692, JUL 12 2023, vol. 16, no. 7, p. 2968-2976. Dostupné na: <https://doi.org/10.1039/d2ee03525a>, Registrované v: WOS*

3. [1.1] LIU, N.Y. - LIU, Y.X. - LIU, Y.L. - LI, Y.X. - CHENG, Y.Y. - LI, H.T. *Modulation of photogenerated holes for enhanced photoelectrocatalytic performance. In MICROSTRUCTURES. JAN 2023, vol. 3, no. 1. Dostupné na: <https://doi.org/10.20517/microstructures.2022.23>, Registrované v: WOS*

ADCA457

SEDLÁČKOVÁ, K. - ZAŤKO, Bohumír - ŠAGÁTOVÁ-PERĐOCHOVÁ, A. - NEČAS, V. Monte Carlo simulations of the particle transport in semiconductor detectors of fast neutrons. In *Nuclear Instruments and Methods in Physics Research A. Accelerators, Spectrometers, Detectors and Associated Equipment*, 2013, vol. 709, p. 63-67. (2012: 1.142 - IF, Q2 - JCR, 0.832 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0168-9002. Dostupné na:

<https://doi.org/10.1016/j.nima.2013.01.011>

Citácie:

1. [1.2] DEY, Balaram - BHATTACHARYA, Srijit. *Experimental Details for a Typical Nuclear Physics Experiment. In Understanding Nuclear Physics: An Experimental Approach, 2023-01-01, pp. 25-58. Dostupné na:*

https://doi.org/10.1007/978-981-19-8437-2_3, Registrované v: SCOPUS

ADCA458

SEDLÁČKOVÁ, K. - LOBOTKA, Peter - VÁVRA, Ivo - RADNÓCZI, G. Structural, electrical and magnetic properties of carbon-nickel composite thin films. In *Carbon*, 2005, vol. 43, p. 2192-2198. (2004: 3.331 - IF, karentované - CCC).

(2005 - Current Contents). ISSN 0008-6223.

Citácie:

1. [1.2] Kroll, L.: *Semi-finished products and preform technologies. In Multifunctional Lightweight Structures: Resource Efficiency by MERGE of Key Enabling Technologies, 2023-01-01, pp. 41-154. Dostupné na:*

https://doi.org/10.1007/978-3-662-62217-9_3, Registrované v: SCOPUS

ADCA459

SEDLAK, K.** - ANVAR, V.A. - BAGRETS, N. - BIANCOLINI, M.E. - BONIFETTO, R. - BONNE, F. - BOSO, D. - BRIGHENTI, A. - BRUZZONE, P.L. - CELENTANO, G. - CHIAPPA, A. - D'AURIA, V. - DAN, M. - DECOOL, P. - DELLA CORTE, A. - DEMBKOWSKA, A. - DICUONZO, O. - DURAN, I. - EISTERER, M. - FERRO, Antonino - FIAMOZZI ZIGNANI, C. - FIETZ, W.H. - FRITTITTA, C. - GIAO, E. - GIANNINI, L. - GIORGETTI, F. - GÖMÖRY, Fedor - GRANADOS, X. - GUARINO, Riccardo - HELLER, R. - HOA, C. - IVASHOV, I. - JIOLAT, G. - JIRSA, M. - JOSE, B. - KEMBLETON, R. - KUMAR, M. - LACROIX, B. - LE COZ, Q. - LEWANDOWSKA, Marta - MAISTRELLO, A. - MISIARA, N. - MORICI, L. - MUZZI, L. - NICOLLET, S. - NIJHUIS, A. - NUNIO, F. - PORTAFAIX, C. - ROMANELLI, G. - SARASOLA, X. - SAVOLDI, L. - STEPANOV, B.Ja. - TISEANU, I. - TOMASSETTI, G. - TORRE, A. - TURTÚ, S. - UGLIETTI, D. - VALLCORBA, R. - VIERERBL, L. - VOJENČIAK, Michal - VORPAHL, C. - WEISS, K.-P. - WESCHE, R. - WOLF, Mark J. P. - ZANI, L. - ZANINO, R. - ZAPPATORE, A. - CORATO, V. Advance in the conceptual design of the European DEMO magnet system. In Superconductor Science and Technology, 2020, vol. 33, no. 044013. (2019: 3.067 - IF, Q2 - JCR, 0.991 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ab75a9>

Citácie:

1. [1.1] MURALIDHAR, M. - SRIKANTH, A.S. - PINMANGKORN, S. - SANTOSH, M. - MILOS, J. *Role of Superconducting Materials in the Endeavor to Stop Climate Change and Reach Sustainable Development. In JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM. ISSN 1557-1939, MAR 2023, vol. 36, no. 3, p. 803-812. Dostupné na: https://doi.org/10.1007/s10948-023-06515-6, Registrované v: WOS*

2. [1.2] Zheng J., Liu, F., Liu, X., Li, M., Zhu, L., Xu, W., Shen, G., Fang, C., Liu, H.: *Thermal, Electromagnetic and Structural Performance Evaluation of CFETR Toroidal Field Superconducting Magnet In IEEE 6th International Electrical and Energy Conference, CIEEC 2023 Pages 3868 - 3873, Registrované v: SCOPUS*

ADCA460

SEILER, Eugen** - GÖMÖRY, Fedor - MIŠÍK, J. - RICHTER, D. Critical current density of coated conductors determined from rescaled magnetic moment at temperatures close to 77 K. In Physica C. Superconductivity and its applications, 2018, vol. 551, p. 66-71. (2017: 1.453 - IF, Q3 - JCR, 0.492 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0921-4534. Dostupné na: <https://doi.org/10.1016/j.physc.2018.06.003>

Citácie:

1. [1.1] ANAS, M. - EL MAKDAH, M.H. - EL DAKDOUKI, M.H. - SROUR, A. - AWAD, R. - HASSAN, M.S. *Investigation of Physical Properties of (Nano-SmIG)/(Bi, Pb)-2212 Phase. In JOURNAL OF LOW TEMPERATURE PHYSICS. ISSN 0022-2291, NOV 2023, vol. 213, no. 3-4, p. 191-214. Dostupné na: https://doi.org/10.1007/s10909-023-02994-y, Registrované v: WOS*

2. [1.1] CAYADO, P. - BONURA, M. - LUCAS, C. - SAULE, E. - RIJCKAERT, H. - BAGNI, T. - KONSTANTOPOULOU, K. - ALESSANDRINI, M. - SENATORE, C. *Impact of deoxygenation/reoxygenation processes on the superconducting properties of commercial coated conductors. In SCIENTIFIC REPORTS. ISSN*

2045-2322, OCT 7 2023, vol. 13, no. 1. Dostupné na:

<https://doi.org/10.1038/s41598-023-44086-7>, Registrované v: WOS

3. [1.1] EL MAKDAH, M.H. - EL GHOUGH, N. - EL-DAKDOUKI, M.H. - AWAD, R. - MATAR, M. Structural, electrical and mechanical properties of the $(\text{NdFeO}_3)_x/(\text{CuTi})\text{-}1223$ superconductor phase. In APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING. ISSN 0947-8396, APR 2023, vol. 129, no. 4. Dostupné na: <https://doi.org/10.1007/s00339-023-06547-8>, Registrované v: WOS

4. [1.1] KHATTAR, R.F. - ANAS, M. - AWAD, R. - HABANJAR, K. - GENCER, A. - BUSSMANN-HOLDER, A. - RUIZ, J.J.C. - VINOKUR, V. - FUENTE, G.F.D. Superconducting and Mechanical Properties of the $\text{Tl}_0.8\text{Hg}_{0.2}\text{Ba}_2\text{Ca}_2\text{Cu}_3\text{O}_{9-\delta}$ Superconductor Phase Substituted by Lanthanum and Samarium Fluorides. In CONDENSED MATTER. ISSN 2410-3896, DEC 2023, vol. 8, no. 4. Dostupné na: <https://doi.org/10.3390/condmat8040087>, Registrované v: WOS

ADCA461 SEILER, Eugen** - GÖMÖRY, Fedor - RIES, Rastislav - VOJENČIAK, Michal. Analysis of critical current anisotropy in commercial coated conductors in terms of the maximum entropy approach. In Superconductor Science and Technology, 2019, vol. 32, no. 095004. (2018: 2.489 - IF, Q2 - JCR, 0.879 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ab24ad>

Citácie:

1. [1.1] SHEN, J.Y. - SOGABE, Y. - AMEMIYA, N. Numerical Analysis of Thermal Runaway in Copper-Plated Multifilament Coated Conductor. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3244146>, Registrované v: WOS

2. [1.1] SOMAN, A.A. - WIMBUSH, S.C. - LONG, N.J. - RUPICH, M.W. - NOTTHOFF, C. - KLUTH, P. - LEVENEUR, J. - KENNEDY, J. - STRICKLAND, N.M. Reduced Critical Current Anisotropy and Improved Critical Current Performance in a Combined Pinning Landscape Created by Proton and Silver Irradiation. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na:

<https://doi.org/10.1109/TASC.2023.3244522>, Registrované v: WOS

ADCA462 SEILER, Eugen - RICHTER, D. - BORDINI, B. - BOTTURA, L. - BESSETTE, D. - VOSTNER, A. - DEVRED, A. Hysteresis losses and effective $J_c(B)$ scaling law for ITER Nb₃Sn strands. In IEEE Transactions on Applied Superconductivity, 2016, vol. 26, art. no. 8200307. (2015: 1.092 - IF, Q3 - JCR, 0.403 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2016.2517200>

Citácie:

1. [1.1] BRESCHI, M. - CAVALLUCCI, L. - RIBANI, P.L. - GAUTHIER, F. AC Loss Modeling of a Full-Size ITER CS Module. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, MAR 2023, vol. 33, no. 2.

Dostupné na: <https://doi.org/10.1109/TASC.2022.3229377>, Registrované v: WOS

ADCA463 SHAJI, Ashin - VÉGSÖ, Karol - SOJKOVÁ, Michaela - HULMAN, Martin - NÁDAŽDY, Peter - HUTÁR, Peter - PRIBUSOVÁ SLUŠNÁ, Lenka - HRDÁ, Jana - BODIK, Michal - HODAS, Martin - BERNSTORFF, S. - JERGEL, Matej - MAJKOVÁ, Eva - SCHREIBER, F. - ŠIFFALOVÍČ, Peter**. Orientation of few-layer MoS₂ films: in-situ x-ray scattering study during sulfurization. In Journal of Physical Chemistry C, 2021, vol. 125, no. 17, p. 9461-9468. (2020: 4.126 - IF, Q2 - JCR, 1.401 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/acs.jpcc.1c01716>

Citácie:

1. [1.1] CABEDA, D.S. - ROLIM, G.K. - SOARES, G.V. - DE ANDRADE, A.M.H. - RADTKE, C. Timing of sulfur introduction in the sulfurization of WO₃ films dictates WS₂ formation. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, FEB 1 2023, vol. 610. Dostupné na:

<https://doi.org/10.1016/j.apsusc.2022.155488>, Registrované v: WOS

ADCA464

SHAJI, Ashin - VÉGSÖ, Karol - SOJKOVÁ, Michaela - HULMAN, Martin - NÁDAŽDY, Peter - HALAHOVETS, Yuriy - PRIBUSOVÁ SLUŠNÁ, Lenka - VOJTEKOVÁ, Tatiana - HRDÁ, Jana - JERGEL, Matej - MAJKOVÁ, Eva - WIESMANN, J. - ŠIFFALOVÍČ, Peter**. Stepwise sulfurization of MoO₃ to MoS₂ thin films studied by real-time X-ray scattering. In Applied Surface Science, 2022, vol. 606, no. 154772. (2021: 7.392 - IF, Q1 - JCR, 1.147 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, CCC). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2022.154772> (APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou. APVV-17-0352 : Časovo-rozlíšené štúdium rastu hybridných van der Waalsových heteroštruktúr. APVV-17-0560 : Tribologické vlastnosti 2D materiálov a príbuzných nanokompozitov/. APVV-18-0480 : Cieleny dizajn hydrogélových mikrokapsúl pre imunitnú ochranu pankreatických ostrovčiekov v liečbe cukrovky. APVV-19-0465 : Hybridné nízkorozmerné vrstevnaté materiály s novými funkciami. APVV-19-0461 : Anódy pre Li-iónové batérie na báze uhlík-kremíkových kompozitov. APVV-19-0365 : Metalické 2D dichalkogenidy prechodných kovov: príprava, štúdium vlastností a korelované stavy. VEGA 2/0041/21. VEGA č. 2/0046/21 : Vplyv zabudovania MXénov do perovskitových solárnych článkov)

Citácie:

1. [1.1] CABEDA, Dheryck Schwendler - ROLIM, Guilherme Koszeniewski - SOARES, Gabriel Vieira - DE ANDRADE, Antonio Marcos Helgueira - RADTKE, Claudio. Timing of sulfur introduction in the sulfurization of WO₃ films dictates WS₂ formation. In APPLIED SURFACE SCIENCE, 2023, vol. 610, no., pp. ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2022.155488>, Registrované v: WOS

2. [1.1] PONNUSAMY, Krishna Moorthy - RAVEENDRAN, Navanya - DURAIRAJ, Santhosh - ESWARAN, Senthil Kumar - CHANDRAMOHAN, S. Spectroscopic visualization of intermediate phases during CVD synthesis of MoS₂. In JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, 2023, vol. 182, no., pp. ISSN 0022-3697. Dostupné na:

<https://doi.org/10.1016/j.jpss.2023.111575>, Registrované v: WOS

3. [1.1] SHENDOKAR, Sachin - ARYEETAY, Frederick - HOSSEN, Moha Feroz - IGNATOVA, Tetyana - ARAVAMUDHAN, Shyam. Towards Low-Temperature CVD Synthesis and Characterization of Mono- or Few-Layer Molybdenum Disulfide. In MICROMACHINES, 2023, vol. 14, no. 9, pp. Dostupné na:

<https://doi.org/10.3390/mi14091758>, Registrované v: WOS

4. [1.1] SOMPHONSANE, Ratchanok - CHIAWCHAN, Tinna - BOOTSA-ARD, Waraporn - RAMAMOORTHY, Harihara. CVD Synthesis of MoS₂/sub Using a Direct MoO₃/sub Precursor: A Study on the Effects of Growth Temperature on Precursor Diffusion and Morphology Evolutions. In MATERIALS, 2023, vol. 16, no. 13, pp. Dostupné na: <https://doi.org/10.3390/ma16134817>, Registrované v: WOS

5. [1.1] WEN, Kaining - HUANG, Lin - QU, Laitao - DENG, Teng - MEN, Xinliang - CHEN, Liping - WANG, Juan. g-C₃N₄/MoO₃ composite with optimized crystal face: A synergistic adsorption-catalysis for boosting cathode performance of lithium-sulfur batteries. In JOURNAL OF COLLOID AND

INTERFACE SCIENCE, 2023, vol. 649, no., pp. 890-899. ISSN 0021-9797.
Dostupné na: <https://doi.org/10.1016/j.jcis.2023.06.103>, Registrované v: WOS
6. [1.2] Ali, O.I., Gyurika, I.G.: *Recent Advances in Development and Characterization of CVD Multilayer Composite Coatings—A Comprehensive Review In Lecture Notes in Networks and Systems 657 LNNS*, (2023) pp. 63-75, Registrované v: SCOPUS

7. [1.2] SOMPHONSANE, Ratchanok - CHIAWCHAN, Tinna - BOOTSA-ARD, Waraporn - RAMAMOORTHY, Harihara. *CVD Synthesis of MoS₂ Using a Direct MoO₂ Precursor: A Study on the Effects of Growth Temperature on Precursor Diffusion and Morphology Evolutions*. In *Materials*, 2023-07-01, 16, 13, pp.
Dostupné na: <https://doi.org/10.3390/ma16134817>, Registrované v: SCOPUS

ADCA465

SHENG, J. - VOJENČIAK, Michal - TERZIOGLU, R. - FROLEK, Lubomír - GÖMÖRY, Fedor. Numerical study on magnetization characteristics of superconducting conductor on round core cables. In *IEEE Transactions on Applied Superconductivity*, 2017, vol. 27, art. no. 4800305. (2016: 1.583 - IF, Q3 - JCR, 0.398 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2016.2632901>

Citácie:

1. [1.1] LI, Q.Z. - LU, Y.M. - ZHAO, W.W. - ZHOU, D.F. - CAI, C.B. *Effects of Winding Angle on Losses of CORC Cable-A Numerical Study*. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, MAR 2023, vol. 33, no. 2. Dostupné na: <https://doi.org/10.1109/TASC.2022.3224841>, Registrované v: WOS

2. [1.1] QIAO, Y.K. - SUN, Y.M. - BADCOCK, R.A. - STRICKLAND, N.M. - JIANG, Z.A. *Simulation of Dynamic Resistance and Total Loss of HTS CORC Cables*. In *IEEE ACCESS*. ISSN 2169-3536, 2023, vol. 11, p. 797-807. Dostupné na: <https://doi.org/10.1109/ACCESS.2022.3232726>, Registrované v: WOS

3. [1.1] WU, J.F. - LIU, D.H. - ZHANG, X.Y. - YONG, H.D. *Mechanical Response of Conductor on Round Core (CORC) Cables Under Electromagnetic Force*. In *ACTA MECHANICA SOLIDA SINICA*. ISSN 0894-9166, JUN 2023, vol. 36, no. 3, p. 418-427. Dostupné na: <https://doi.org/10.1007/s10338-023-00388-x>, Registrované v: WOS

ADCA466

SCHRÖFEL, A. - KRATOŠOVÁ, G. - BOHUNICKÁ, M. - DOBROČKA, Edmund - VÁVRA, Ivo. Biosynthesis of gold nanoparticles using diatoms-silica-gold and EPS-gold bionanocomposite formation. In *Journal of Nanoparticle Research*, 2011, vol. 13, p. 3207-3216. (2010: 3.253 - IF, Q1 - JCR, 0.974 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1388-0764. Dostupné na: <https://doi.org/10.1007/s11051-011-0221-6>

Citácie:

1. [1.1] AHIRWAR, A. - MEIGNEN, G. - KHAN, M.J. - KHAN, N. - RAI, A. - SCHOEFS, B. - MARCHAND, J. - VARJANI, S. - VINAYAK, V. *Nanotechnological approaches to disrupt the rigid cell walled microalgae grown in wastewater for value-added biocompounds: commercial applications, challenges, and breakthrough*. In *BIOMASS CONVERSION AND BIOREFINERY*. ISSN 2190-6815, OCT 2023, vol. 13, no. 15, p. 13309-13334. Dostupné na: <https://doi.org/10.1007/s13399-021-01965-1>, Registrované v: WOS

2. [1.1] GHOLAMIAN, F. - KARIMI, N. - GHOLAMIAN, F. - BAYAT, P. *Phycoremediation potential and agar yield of red macroalgae (*Gracilaria corticata*) against HEDP (hydroxyethylidene diphosphonic acid) and CAPB (cocoamidopropyl betaine) detergents and the heavy metal pollutants*. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344,

- SEP 2023, vol. 30, no. 45, p. 101110-101120. Dostupné na: <https://doi.org/10.1007/s11356-023-29427-3>, Registrované v: WOS
3. [1.1] GHOLAMIAN, F. - KARIMI, N. - GHOLAMIAN, F. - BAYAT, P. The effects of some detergents and heavy metals on fucoxanthin yield and phycoremediation potential of *Polycladia myrica*. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY. ISSN 1735-1472, AUG 2023, vol. 20, no. 8, p. 8349-8358. Dostupné na: <https://doi.org/10.1007/s13762-023-05005-5>, Registrované v: WOS
4. [1.1] GOEL, M. - SHARMA, A. - SHARMA, B. Recent Advances in Biogenic Silver Nanoparticles for Their Biomedical Applications. In SUSTAINABLE CHEMISTRY. MAR 2023, vol. 4, no. 1, p. 61-94. Dostupné na: <https://doi.org/10.3390/suschem4010007>, Registrované v: WOS
5. [1.2] KHAN, Firdos Alam. Synthesis of materials by using green technology or biological approaches. In Materials for Medical Applications: Principles and Practices, 2023-09-22, pp. 31-45. Dostupné na: <https://doi.org/10.1201/9781003317715-3>, Registrované v: SCOPUS
6. [1.2] MAYSARAH, Azalea Dyah - SATYA, Awalina - CHRISMADHA, Tjandra - SATYA, Ika Atman - YAZDI, Sara Kazemi - SHOW, Pau Loke. Wastewater Remediation Potential of Diatoms. In Diatoms Biotechnology, 2023-01-01, pp. 156-178. Dostupné na: <https://doi.org/10.1201/9781003436553-9>, Registrované v: SCOPUS
7. [1.2] RAI, J. P.N. - SARASWAT, Shweta. Green Technologies for Waste Management: A Wealth from Waste Approach. In Green Technologies for Waste Management A Wealth from Waste Approach, 2023-01-01, pp. 1-386. Dostupné na: <https://doi.org/10.1201/9781003279136>, Registrované v: SCOPUS
8. [1.2] SINGH, Shruti Raj Vansh - KATYAL, Krishna - GORDON, Richard. RAPHE: Simulation of the Dynamics of Diatom Motility at the Molecular Level- The Domino Effect Hydration Model with Concerted Diffusion. In The Mathematical Biology of Diatoms, 2023-01-01, pp. 291-342. Dostupné na: <https://doi.org/10.1002/9781119751939.ch11>, Registrované v: SCOPUS
9. [1.2] WANG, Ying - CHEN, Hu - XU, Mengdi - LÜ, Yongkang. Pyridine degradation characteristics of *Rhodococcus* sp. LV4 under high salinity conditions. In Shengwu Gongcheng Xuebao/Chinese Journal of Biotechnology, 2023-03-25, 39, 3, pp. 1202-1216. ISSN 10003061. Dostupné na: <https://doi.org/10.13345/j.cjb.220822>, Registrované v: SCOPUS

ADCA467

SKÁKALOVÁ, Viera** - KOTRUSZ, Peter - JERGEL, Matej - SUSI, Toma - MITTELBERGER, Andreas - VRETENÁR, Viliam - ŠIFFALOVIČ, Peter - KOTAKOSKI, Jani - MEYER, Jannik C. - HULMAN, Martin. Chemical oxidation of graphite: Evolution of the structure and properties. In Journal of Physical Chemistry C, 2018, vol. 122, no. 1, p. 929-935. (2017: 4.484 - IF, Q1 - JCR, 2.135 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/acs.jpcc.7b10912>

Citácie:

1. [1.1] MAZRI, Nur Azni Farhana - ARIFUTZZAMAN, A. - AROUA, Mohamed Kheireddine - RAHMAN, Muhammad Ekhlatur - MAZARI, Shaikat Ali. Graphene and its tailoring as emerging 2D nanomaterials in efficient CO₂/sub absorption: A state-of-the-art interpretative review. In ALEXANDRIA ENGINEERING JOURNAL, 2023, vol. 77, no., pp. 479-502. ISSN 1110-0168. Dostupné na: <https://doi.org/10.1016/j.aej.2023.06.070>, Registrované v: WOS
2. [1.1] VIEIRA, Mariana A. - COSTA, Tainara L. G. - GONCALVES, Gustavo R. - CIPRIANO, Daniel F. - SCHETTINO JR, Miguel A. - DA SILVA, Elen L. - CUNA, Andres - FREITAS, Jair C. C. Phosphorus/Sulfur-Enriched Reduced

Graphene Oxide Papers Obtained from Recycled Graphite: Solid-State NMR Characterization and Electrochemical Performance for Energy Storage. In C-JOURNAL OF CARBON RESEARCH, 2023, vol. 9, no. 2, pp. Dostupné na: <https://doi.org/10.3390/c9020060>, Registrované v: WOS

3. [1.1] YANG, Yaxiong - DONG, Ruige - CHENG, Hao - WANG, Linlin - TU, Jibing - ZHANG, Shichao - ZHAO, Sihan - ZHANG, Bing - PAN, Hongge - LU, Yingying. 2D Layered Materials for Fast-Charging Lithium-Ion Battery Anodes. In SMALL, 2023, vol. 19, no. 34, pp. ISSN 1613-6810. Dostupné na: <https://doi.org/10.1002/sml.202301574>, Registrované v: WOS

4. [1.1] ZHOU, Congli - ZHANG, Kun - SUN, Xiao - ZHAO, Xingchuan - ZHENG, Kaiwen - MI, Jiawei - QING, Fangzhu - WEN, Qiye - LI, Xuesong. Porous Graphene Produced by Carbothermal Shock for Green Electromagnetic Interference Shielding in Both Microwave and Terahertz Bands. In SMALL METHODS, 2023, vol. 7, no. 3, pp. ISSN 2366-9608. Dostupné na: <https://doi.org/10.1002/smt.202201493>, Registrované v: WOS

ADCA468 SKÁKALOVÁ, Viera - VRETENÁR, Viliam - KOPERA, Ľubomír - KOTRUSZ, Peter - MANGLER, C. - MEŠKO, M. - MEYER, J.C. - HULMAN, Martin. Electronic transport in composites of graphite oxide with carbon nanotubes. In Carbon, 2014, vol. 72, p. 224-232. (2013: 6.160 - IF, Q1 - JCR, 2.292 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0008-6223. Dostupné na: <https://doi.org/10.1016/j.carbon.2014.02.006>

Citácie:

1. [1.1] MUKHERJEE, Dipro - SIL, Moumita - GOSWAMI, Arunava - LAHIRI, Dibyajit - NAG, Moupriya. Antibiofilm Activities of Carbon-Based Nanoparticles and Nanocomposites: A Comparative Review. In JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, 2023, vol. 33, no. 12, pp. 3961-3983. ISSN 1574-1443. Dostupné na: <https://doi.org/10.1007/s10904-023-02732-7>, Registrované v: WOS

ADCA469 SKARBA, M.** - PEKARČÍKOVÁ, M. - FROLEK, Ľubomír - CUNINKOVÁ, E. - NECPAL, M. Thermal cycling of (RE)BCO-based superconducting tapes joined by lead-free solders. In Materials, 2021, vol. 14, no. 1052. (2020: 3.623 - IF, Q1 - JCR, 0.682 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1996-1944. Dostupné na: <https://doi.org/10.3390/ma14041052>

Citácie:

1. [1.1] FRANCIS, A.C. - VENUTURUMILLI, S. - MOSELEY, D.A. - CLARIDGE, S. - LEUW, B. - BADCOCK, R.A. - BUMBY, C.W. Electrical, magnetic and thermal circuit modelling of a superconducting half-wave transformer rectifier flux pump using Simulink. In SUPERCONDUCTIVITY. SEP 2023, vol. 7. Dostupné na: <https://doi.org/10.1016/j.supcon.2023.100053>, Registrované v: WOS

ADCA470 SLUGENĚ, V. - KUPRILACH, J. - BALLO, P. - DOMONOKOS, P. - KÖGEL, G. - SPERR, P. - EGGER, W. - TRIFTSHÄUSER, W. - DOMANKOVA, V.M. - KOVÁČ, P. - VÁVRA, Ivo - STANČEK, S. - PETRISKA, Martin - ZEMAN, Antonín. Positron annihilation investigations of defects in copper alloys selected for nuclear fusion technology. In Fusion Engineering and Design, 2004, vol. 70, p. 141-153. ISSN 0920-3796. Dostupné na: <https://doi.org/10.1016/j.fusengdes.2003.10.002>

Citácie:

1. [1.1] MESBAH, S. - ABIB, K. - GUITTOUM, A. - AKOU, M. - BIBIMOUNE, I. - BRADAI, D. Positron lifetime investigation of Ni-W and Cu-Cr-Zr alloys after severe plastic deformation and annealing. In MRS Communications. 2023, vol. 13, no. 2, pp. 350-356. ISSN 2159-6859. Dostupné na: <https://doi.org/10.1557/s43579-023-00353-2>, Registrované v: WOS

ADCA471 SOJKOVÁ, Michaela** - DOBROČKA, Edmund - HUTÁR, Peter - TAŠKOVÁ, Valéria - PRIBUSOVÁ SLUŠNÁ, Lenka - STOKLAS, Roman - PÍŠ, I. - BONDONI, F. - MUNNIK, F. - HULMAN, Martin. High carrier mobility epitaxially aligned PtSe₂ films grown by one-zone selenization. In Applied Surface Science, 2021, vol. 538, no. 147936. (2020: 6.707 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2020.147936>

Citácie:

1. [1.1] CHO, Y.S. - RHEE, D. - LEE, J. - JUNG, S.Y. - EOM, J. - MAZANEK, V. - WU, B. - KANG, T. - BAEK, S. - CHOI, H. - SOFER, Z. - LEE, S. - KANG, J. *Electronic and electrocatalytic applications based on solution-processed two-dimensional platinum diselenide with thickness-dependent electronic properties.* In ECOMAT. AUG 2023, vol. 5, no. 8. Dostupné na:

<https://doi.org/10.1002/eom2.12358>, Registrované v: WOS

2. [1.1] LIU, H. - ZHENG, H. - WANG, Y.M. - HUANG, C. - MA, C.L. - ZHU, Y. - YANG, H. - LING, L.S. - ZHANG, L. - FAN, J.Y. *Long-Range Magnetic Exchange Coupling in Quasi-2D CrTe Ferromagnetic Thin Films.* In PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS. ISSN 1862-6254, DEC 2023, vol. 17, no. 12. Dostupné na: <https://doi.org/10.1002/pssr.202300209>, Registrované v: WOS

3. [1.1] RACZYNSKI, J. - NOWAK, E. - NOWICKI, M. - EL-AHMAR, S. - SZYBOWICZ, M. - KOCZOROWSKI, W. *Studies of temperature-dependent Raman spectra of thin PtSe₂ layers on Al₂O₃ substrate.* In MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS. ISSN 0921-5107, NOV 2023, vol. 297. Dostupné na:

<https://doi.org/10.1016/j.mseb.2023.116728>, Registrované v: WOS

4. [1.1] TANG, Q.Y. - ZHONG, F. - LI, Q. - WENG, J.L. - LI, J.Z. - LU, H.Y. - WU, H.T. - LIU, S.N. - WANG, J.C. - DENG, K. - XIAO, Y.L. - WANG, Z. - HE, T. *Infrared Photodetection from 2D/3D van der Waals Heterostructures.* In NANOMATERIALS. APR 2023, vol. 13, no. 7. Dostupné na:

<https://doi.org/10.3390/nano13071169>, Registrované v: WOS

5. [1.1] TODOROVA, N. - MINEV, N. - MARINOVA, V. - BUCHKOV, K. - VIDEVA, V. - TODOROV, R. - RAFAILOV, P. - STRIJKOVA, V. - PSYCHARIS, V. - GIANNAKOPOULOU, T. - PAPAILIAS, I. - IOANNIDIS, N. - MITRIKAS, G. - DIMITROV, D. - TRAPALIS, C. *Two-dimensional PtSe₂ coatings with antibacterial activity.* In APPLIED SURFACE SCIENCE. ISSN 0169-4332, FEB 15 2023, vol. 611, A. Dostupné na: <https://doi.org/10.1016/j.apsusc.2022.155534>, Registrované v: WOS

ADCA472 SOJKOVÁ, Michaela** - ŠIFFALOVIČ, Peter - BABCHENKO, Oleg - VANKO, Gabriel - DOBROČKA, Edmund - HAGARA, Jakub - MRKÝVKOVÁ, Nad'a, Tesařová - MAJKOVÁ, Eva - IZSÁK, Tibor - KROMKA, A. - HULMAN, Martin. Carbide-free one-zone sulfurization method grows thin MoS₂ layers on polycrystalline CVD diamond. In Scientific Reports, 2019, vol. 9, art. no. 2001. (2018: 4.011 - IF, Q1 - JCR, 1.414 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-018-38472-9> (VEGA 2/0149/17)

Citácie:

1. [1.1] HAZDRA, Pavel - LAPOSA, Alexandr - SOBAN, Zbynek - KROUTIL, Jiri - LAMBERT, Nicolas - POVOLNY, Vojtech - TAYLOR, Andrew - MORTET, Vincent. *Pseudo-Vertical Schottky Diode with Ruthenium Contacts on (113) Boron-Doped Homoepitaxial Diamond Layers.* In PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, 2023, vol. 220, no. 23, pp. ISSN 1862-6300. Dostupné na: <https://doi.org/10.1002/pssa.202300508>, Registrované

v: WOS

2. [1.1] RAVEENA, J. - BAKIYARAJ, G. - ARCHANA, J. - NAVANEETHAN, M. Investigation of the photovoltaic efficiency of dye-sensitized solar cells using transition metal (Cu, Mo, and Ni)-doped 2D SnS₂/sub nanoflakes counter-electrodes. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, 2023, vol. 34, no. 14, pp. ISSN 0957-4522. Dostupné na: <https://doi.org/10.1007/s10854-023-10532-5>, Registrované v: WOS

3. [1.1] ZENG, Shuai-Shuai - XING, You-Qiang - WU, Ze - LI, Bing-Jue - HUANG, Peng - LIU, Lei. Enhanced Energy Transfer between Nitrogen-Vacancy Centers and 2D MoS₂/sub Films Accurately Fabricated by Atomic Layer Deposition. In ADVANCED OPTICAL MATERIALS, 2023, vol. 11, no. 15, pp. ISSN 2195-1071. Dostupné na: <https://doi.org/10.1002/adom.202203105>, Registrované v: WOS

4. [1.1] ZHANG, Congli. Recent progress on chemical vapor deposition growth of 2D materials. In JOURNAL OF COMPUTATIONAL METHODS IN SCIENCES AND ENGINEERING, 2023, vol. 23, no. 5, pp. 2595-2608. ISSN 1472-7978. Dostupné na: <https://doi.org/10.3233/JCM-226864>, Registrované v: WOS

5. [1.1] ZHANG, Zhao - QIN, Xudong - MA, Silu - LIU, Yang - WANG, Liping - ZHAO, Xinyang. Synergistic Effect of WS₂/sub and Micro-Textures to Inhibit Graphitization and Delamination of Micro-Nano Diamond-Coated Tools. In CRYSTALS, 2023, vol. 13, no. 7, pp. Dostupné na: <https://doi.org/10.3390/cryst13071034>, Registrované v: WOS

ADCA473 SOJKOVÁ, Michaela** - VÉGSÖ, Karol - MRKÝVKOVÁ, Nad'a, Tesařová - HAGARA, Jakub - HUTÁR, Peter - ROSOVÁ, Alica - ČAPLOVIČOVÁ, M. - LUDACKA, U. - SKÁKALOVÁ, Viera - MAJKOVÁ, Eva - ŠIFFALOVÍČ, Peter - HULMAN, Martin. Tuning the orientation of few-layer MoS₂ films using one-zone sulfurization. In RSC Advances, 2019, vol. 9, no. 51, p. 29645-29651. (2018: 3.049 - IF, Q2 - JCR, 0.807 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2046-2069. Dostupné na: <https://doi.org/10.1039/c9ra06770a> (VEGA 2/0149/17. APVV 17-0560)

Citácie:

1. [1.1] ZULKIFLI, Nur ';Adnin Akmar - ZAHIR, Nor Hilmi - RIPAIN, Atiena Husna Abdullah - SAID, Suhana Mohd - ZAKARIA, Rozalina. Sulfurization engineering of single-zone CVD vertical and horizontal MoS₂/sub on p-GaN heterostructures for self-powered UV photodetectors. In NANOSCALE ADVANCES, 2023, vol. 5, no. 3, pp. 879-892. ISSN 2516-0230. Dostupné na: <https://doi.org/10.1039/d2na00756h>, Registrované v: WOS

ADCA474 SOJKOVÁ, Michaela - ŠTRBÍK, Vladimír - CHROMIK, Štefan - LIDAY, J. - VOGRINČIČ, P. - DOBROČKA, Edmund - ŠPANKOVÁ, Marianna - TALACKO, Marcel - GAŽI, Štefan. Stable fluoride based sputtering target for Tl-based cuprate superconducting thin film fabrication. In Vacuum, 2015, vol. 119, p. 250-255. (2014: 1.858 - IF, Q2 - JCR, 0.618 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0042-207X. Dostupné na: <https://doi.org/10.1016/j.vacuum.2015.05.038>

Citácie:

1. [1.1] LIANG, X.L. - NIU, Z.H. - LI, T.C. - CHEN, J.H. - ZHAO, H.T. - YANG, Q. - HE, M. - FENG, M. - ZENG, C. - JI, L. A new technique to achieve thick Tl₂Ba₂CaCu₂O₈ films for advanced applications. In CERAMICS INTERNATIONAL. ISSN 0272-8842, MAY 15 2023, vol. 49, no. 10, p. 15665-15672. Dostupné na: <https://doi.org/10.1016/j.ceramint.2023.01.158>,

Registrované v: WOS

ADCA475 SOJKOVÁ, Michaela** - HRDÁ, Jana - VOLKOV, S. - VÉGSÖ, Karol - SHAJI,

Ashin - VOJTEKOVÁ, Tatiana - PRIBUSOVÁ SLUŠNÁ, Lenka - GÁL, Norbert - DOBROČKA, Edmund - ŠIFFALOVIČ, Peter - ROCH, T. - GREGOR, Maroš - HULMAN, Martin. Growth of PtSe₂ few-layer films on NbN superconducting substrate. In Applied Physics Letters, 2021, vol. 119, no. 1, 013101. (2020: 3.791 - IF, Q2 - JCR, 1.182 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0053309>

Citácie:

1. [1.1] KOCZOROWSKI, W. - RACZYNSKI, J. - EL-AHMAR, S. - NOWAK, E. - NOWICKI, M. - SZYBOWICZ, M.L. - CZAJKA, R. Processing of PtSe₂ ultra-thin layers using Ar plasma. In MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING. ISSN 1369-8001, NOV 15 2023, vol. 167. Dostupné na:

<https://doi.org/10.1016/j.mssp.2023.107814>, Registrované v: WOS

2. [1.1] KOCZOROWSKI, Wojciech - RACZYNSKI, Jan - EL-AHMAR, Semir - NOWAK, Ewelina - NOWICKI, Marek - SZYBOWICZ, Mirosław - CZAJKA, Ryszard. Processing of PtSe₂ ultra-thin layers using Ar plasma. In MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, 2023, vol. 167, no., pp. ISSN 1369-8001. Dostupné na: <https://doi.org/10.1016/j.mssp.2023.107814>,

Registrované v: WOS

3. [1.1] RACZYNSKI, J. - NOWAK, E. - NOWICKI, M. - EL-AHMAR, S. - SZYBOWICZ, M. - KOCZOROWSKI, W. Studies of temperature-dependent Raman spectra of thin PtSe₂ layers on Al₂O₃ substrate. In MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS. ISSN 0921-5107, NOV 2023, vol. 297. Dostupné na:

<https://doi.org/10.1016/j.mseb.2023.116728>, Registrované v: WOS

4. [1.1] RACZYNSKI, Jan - NOWAK, Ewelina - NOWICKI, Marek - EL-AHMAR, Semir - SZYBOWICZ, Mirosław - KOCZOROWSKI, Wojciech. Studies of temperature-dependent Raman spectra of thin PtSe₂ layers on Al₂O₃ substrate. In MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, 2023, vol. 297, no., pp. ISSN 0921-5107. Dostupné na: <https://doi.org/10.1016/j.mseb.2023.116728>, Registrované v: WOS

ADCA476 SOLOVYOV, Mykola - VOJENČIAK, Michal - GÖMÖRY, Fedor. Magnetic field mapping above the superconducting tape with Ni-covered edges. In IEEE Transactions on Applied Superconductivity, 2009, vol. 19, p. 3049-3052. (2008: 0.919 - IF, Q3 - JCR, 0.884 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, SCOPUS).

Citácie:

1. [1.1] ROTHEUDT, N. - FAGNARD, J.F. - HARMEILING, P. - VANDEBEMDEN, P. Adapting a commercial integrated circuit 3-axis Hall sensor for measurements at low temperatures: Mapping the three components of B in superconducting applications. In CRYOGENICS. ISSN 0011-2275, JUL 2023, vol. 133. Dostupné na: <https://doi.org/10.1016/j.cryogenics.2023.103693>, Registrované v: WOS

ADCA477 SOLOVYOV, Mykola** - GÖMÖRY, Fedor. A–V formulation for numerical modelling of superconductor magnetization in true 3D geometry. In Superconductor Science and Technology, 2019, vol. 32, no. 11, no. 115001. (2018: 2.489 - IF, Q2 - JCR, 0.879 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ab3a85> (APVV 16-0418. VEGA 1/0151/17. APVV 15-0257)

Citácie:

1. [1.1] BANG, J. - PARK, J. - CHOI, K. - KIM, G. - HAHN, S. A numerical method to calculate screening current-dependent self and mutual inductances of REBCO coils. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN

0953-2048, AUG 1 2023, vol. 36, no. 8. Dostupné na:

<https://doi.org/10.1088/1361-6668/acdb9e>, Registrované v: WOS

2. [1.1] CARVALHO, D.J.G. - DA SILVA, F.F. - FERNANDES, J.F.P. - BRANCO, P.J.D. Finite-element recipes for HTS-coated conductors and HTS tape topologies. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, OCT 1 2023, vol. 36, no. 10. Dostupné na: <https://doi.org/10.1088/1361-6668/acf4c3>, Registrované v: WOS

3. [1.1] DOS SANTOS, G. - SANTOS, B.M.O. - SASS, F. - MARTINS, F.G.D. - SOTELO, G.G. - DE ANDRADE, R Jr. J-A formulation: A finite element methodology for simulating superconducting devices. In SUPERCONDUCTIVITY. JUN 2023, vol. 6. Dostupné na:

<https://doi.org/10.1016/j.supcon.2023.100049>, Registrované v: WOS

4. [1.1] KANG, X. - WANG, X.Z. A homogenised anisotropic J-model for accelerating computations of screening current profile in large-scale HTS magnets. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, MAR 1 2023, vol. 36, no. 3. Dostupné na: <https://doi.org/10.1088/1361-6668/acb66f>, Registrované v: WOS

5. [1.1] WANG, Y.B. - WANG, Q.S. - ZHU, X.K. - LI, X.L. - HUA, W. An Improved Critical Current Calculation Method of HTS Field-Excitation Coil for Double-Stator HTS Generator With Stationary Seal. In IEEE TRANSACTIONS ON ENERGY CONVERSION. ISSN 0885-8969, MAR 2023, vol. 38, no. 1, p. 624-635. Dostupné na: <https://doi.org/10.1109/TEC.2022.3200154>, Registrované v: WOS

6. [1.1] YANG, Z.X. - REN, L. - XU, Y. - SHI, J. - DUAN, P. An electromagnetic-thermal-mechanical analysis model for high temperature superconducting magnets. In PHYSICA SCRIPTA. ISSN 0031-8949, SEP 1 2023, vol. 98, no. 9. Dostupné na: <https://doi.org/10.1088/1402-4896/acea44>, Registrované v: WOS

7. [1.2] DE, Siyu - WANG, Qiusheng - LI, Huan - WANG, Yubin. A Critical Current Calculation Method of HTS Excitation Winding Considering the Effect of Self-Field. In 2023 26th International Conference on Electrical Machines and Systems, ICEMS 2023, 2023-01-01, pp. 3175-3180. Dostupné na:

<https://doi.org/10.1109/ICEMS59686.2023.10345336>, Registrované v: SCOPUS

8. [1.2] OHSAKI, Hiroyuki - OKUMURA, Satsuki - HARASHIMA, Fumiya. Damping Characteristics of Magnetic Levitation using Bulk Superconductors and Permanent Magnets. In 2023 14th International Symposium on Linear Drivers for Industry Applications, LDIA 2023, 2023-01-01, pp. Dostupné na:

<https://doi.org/10.1109/LDIA59564.2023.10297459>, Registrované v: SCOPUS

ADCA478

SOLOVYOV, Mykola - ŠOUC, Ján - GÖMÖRY, Fedor - RIKEL, M.O. - MIKULÁŠOVÁ, E. - UŠÁKOVÁ, M. - UŠÁK, E. Bulk and CC-tape based superconducting shields for magnetic cloaks. In IEEE Transactions on Applied Superconductivity, 2017, vol. 27, art. no. 8800204. (2016: 1.583 - IF, Q3 - JCR, 0.398 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na:

<https://doi.org/10.1109/TASC.2016.2627244>

Citácie:

1. [1.1] ALVAREZ, A. - RIVERA, B. - PÉREZ, B. - SUÁREZ, P. Shielding Characteristics of Solenoidal Superconducting Screens Made From HTS Tape, for SFCL Applications. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 22835-22842. Dostupné na: <https://doi.org/10.1109/ACCESS.2023.3247749>, Registrované v: WOS

2. [1.1] BRIALMONT, S. - DULAR, J. - WÉRA, L. - FAGNARD, J.F. - VANDERHEYDEN, B. - GEUZAINÉ, C. - HAHN, S. - PATEL, A. -

VANDERBEMDEN, P. Magnetic shielding up to 0.67 T at 77 K using a stack of high temperature superconducting tape annuli of 26 mm bore. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, MAY 1 2023, vol. 36, no. 5. Dostupné na: <https://doi.org/10.1088/1361-6668/acc981>, Registrované v: WOS

ADCA479 SOLOVYOV, Mykola - PARDO, Enric - ŠOUC, Ján - GÖMÖRY, Fedor - SKARBA, M. - KONOPKA, P. - PEKARČÍKOVÁ, M. - JANOVEC, J. Non-uniformity of coated conductor tapes. In Superconductor Science and Technology, 2013, vol. 26, 115013. (2012: 2.758 - IF, Q1 - JCR, 1.535 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/26/11/115013>

Citácie:

1. [1.1] TSOTSOPOULOU, E. - KARAGIANNIS, X. - PAPADOPOULOS, T. - CHRYSOCHOS, A. - DYSKO, A. - TZELEPIS, D. Protection scheme for multi-terminal HVDC system with superconducting cables based on artificial intelligence algorithms. In INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS. ISSN 0142-0615, JUL 2023, vol. 149. Dostupné na: <https://doi.org/10.1016/j.ijepes.2023.109037>, Registrované v: WOS

ADCA480 SOLOVYOV, Mykola** - ŠOUC, Ján - KUCHAROVIČ, Martin - GÖMÖRY, Fedor. Design of magnetic cloak for an alternating magnetic field with multilayer ReBCO insert. In IEEE Transactions on Applied Superconductivity, 2021, vol. 31, no. 4901205. (2020: 1.704 - IF, Q3 - JCR, 0.467 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2021.3067065>

Citácie:

1. [1.1] BRIALMONT, S. - DULAR, J. - WÉRA, L. - FAGNARD, J.F. - VANDERHEYDEN, B. - GEUZAINÉ, C. - HAHN, S. - PATEL, A. - VANDERBEMDEN, P. Magnetic shielding up to 0.67 T at 77 K using a stack of high temperature superconducting tape annuli of 26 mm bore. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, MAY 1 2023, vol. 36, no. 5. Dostupné na: <https://doi.org/10.1088/1361-6668/acc981>, Registrované v: WOS

ADCA481 SOLOVYOV, Mykola** - ŠOUC, Ján - KUJOVIČ, Tomáš - FROLEK, Lubomír - GÖMÖRY, Fedor. Magnetization AC losses in multilayer superconducting round cables with coinciding and opposite lay angles. In Superconductor Science and Technology, 2023, vol. 36, no. 034001. (2022: 3.6 - IF, Q2 - JCR, 1.191 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/acb08e>

Citácie:

1. [1.1] GAO, S.Y. - SHI, S.J. - YANG, X.S. - SHEN, B.Y. - HU, X.B. - ZHU, Y.P. - WU, B.H. - ZHAO, Y. HTS conductor coil by in-situ winding technology for large-scale high-field magnet. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acff27>, Registrované v: WOS

ADCA482 SOTÁK, T. - HRONEC, M. - VÁVRA, Ivo - DOBROČKA, Edmund. Sputtering processed tungsten catalysts for aqueous phase reforming of cellulose. In International Journal of Hydrogen Energy, 2016, vol. 41, p. 21936-21944. (2015: 3.205 - IF, Q2 - JCR, 1.270 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0360-3199. Dostupné na: <https://doi.org/10.1016/j.ijhydene.2016.08.183>

Citácie:

1. [1.1] OLIVEIRA, A.S. - BAEZA, J.A. - CALVO, L. - GILARRANZ, M.A. Aqueous phase reforming of starch wastewater over Pt and Pt-based bimetallic

- catalysts for green hydrogen production. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, MAR 15 2023, vol. 460. Dostupné na: <https://doi.org/10.1016/j.cej.2023.141770>, Registrované v: WOS*
- ADCA483 SOTÁK, T. - HRONEC, M. - GÁL, M. - DOBROČKA, Edmund - ŠKRINIAROVÁ, Jaroslava. Aqueous-phase oxidation of furfural to maleic acid catalyzed by copper phosphate catalysts. In *Catalysis Letters*, 2017, vol. 147, p. 2714-2723. (2016: 2.799 - IF, Q2 - JCR, 0.755 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1011-372X. Dostupné na: <https://doi.org/10.1007/s10562-017-2191-5>
- Citácie:
- [1.1] CHANG, C. - WU, H.R. - ZHAO, S.Q. - ZHAO, X.L. - MA, Q.L. - LI, P. - XU, G.Z. Chemical conversion of lignocellulosic biomass into platform chemicals for fuels and polymers. In *ADVANCES IN BIOENERGY. ISSN 2468-0125, 2023, vol. 8, p. 1-91. Dostupné na: <https://doi.org/10.1016/bs.aibe.2023.02.003>, Registrované v: WOS*
 - [1.1] CHEN, L. - LUO, W.Y. - HE, Y.M. - HUANG, L.Z. - XU, J.J. - LI, K.X. - MIN, Y.G. High-Performance Polyimide Films Derived from Biomass-Based Furfural: Fabrication and Properties. In *COATINGS. OCT 2023, vol. 13, no. 10. Dostupné na: <https://doi.org/10.3390/coatings13101726>, Registrované v: WOS*
 - [1.1] EBRAHIMIAN, M.R. - TAVAKOLIAN, M. - HOSSEINI-SARVARI, M. From expired metformin drug to nanoporous N-doped-g-C₃N₄: Durable sunlight-responsive photocatalyst for oxidation of furfural to maleic acid. In *JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING. ISSN 2213-2929, APR 2023, vol. 11, no. 2. Dostupné na: <https://doi.org/10.1016/j.jece.2023.109347>, Registrované v: WOS*
 - [1.1] HASSE, J.C. - IBÁÑEZ, M.M. - HOLEWINSKI, A. Impact of Electrolyte Composition on Bulk Electrolysis of Furfural over Platinum Electrodes. In *CHEMCATCHEM. ISSN 1867-3880, DEC 7 2023, vol. 15, no. 23. Dostupné na: <https://doi.org/10.1002/cctc.202300988>, Registrované v: WOS*
 - [1.1] HAYES, G. - LAUREL, M. - MACKINNON, D. - ZHAO, T. - HOUCK, H.A. - BECER, C.R. Polymers without Petrochemicals: Sustainable Routes to Conventional Monomers. In *CHEMICAL REVIEWS. ISSN 0009-2665, MAR 8 2023, vol. 123, no. 5, p. 2609-2734. Dostupné na: <https://doi.org/10.1021/acs.chemrev.2c00354>, Registrované v: WOS*
 - [1.1] PALAI, Y.N. - FUKUOKA, A. - SHROTRI, A. Reaction Pathways for Synthesis of Four Carbon Chemicals from Sugars and Sugar Derived Platform Chemicals. In *CHEMCATCHEM. ISSN 1867-3880, NOV 22 2023, vol. 15, no. 22. Dostupné na: <https://doi.org/10.1002/cctc.202300766>, Registrované v: WOS*
 - [1.1] PEMBERE, A.M.S. - LOUIS, H. - WU, H.M. Mechanism and dynamics of Baeyer-Villiger oxidation of furfural to maleic anhydride in presence of H₂O₂ and Au clusters. In *JOURNAL OF MOLECULAR MODELING. ISSN 1610-2940, NOV 2023, vol. 29, no. 11. Dostupné na: <https://doi.org/10.1007/s00894-023-05764-5>, Registrované v: WOS*
 - [1.1] POKORNY, T. - DOROSHENKO, I. - MACHAC, P. - SIMONIKOVA, L. - BITTOVA, M. - MORAVEC, Z. - KARASKOVA, K. - SKODA, D. - PINKAS, J. - STYSKALIK, A. Copper Phosphinate Complexes as Molecular Precursors for Ethanol Dehydrogenation Catalysts. In *INORGANIC CHEMISTRY. ISSN 0020-1669, NOV 30 2023, vol. 62, no. 49, p. 19871-19886. Dostupné na: <https://doi.org/10.1021/acs.inorgchem.3c01678>, Registrované v: WOS*
- ADCA484 SPRINGHOLZ, G. - PINCZOLITS, M. - HOLÝ, V. - ZERLAUTH, S. - VÁVRA, Ivo - BAUER, G. Vertical and lateral ordering in self-organized quantum dot superlattices. In *Physica E*, 2001, vol. 9, p. 149-163. (2001 - Current Contents).

Citácie:

1. [1.1] WEN, W.C. - SCHUBERT, M.A. - ZOELLNER, M.H. - TILLACK, B. - YAMAMOTO, Y. *Three-Dimensional Self-Ordered Multilayered Ge Nanodots on SiGe*. In *ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY*. ISSN 2162-8769, MAY 1 2023, vol. 12, no. 5. Dostupné na:

<https://doi.org/10.1149/2162-8777/acce06>, Registrované v: WOS

ADCA485 SPRINGHOLZ, G. - SCHWARZL, T. - HEISS, W. - BAUER, G. - AIGLE, M. - PASCHER, H. - VÁVRA, Ivo. Midinfrared surface-emitting PbSe/PbEuTe quantum-dot lasers. In *Applied Physics Letters*, 2001, vol. 79, p. 1225. (2000: 3.906 - IF). ISSN 0003-6951.

Citácie:

1. [1.1] HAIDET, B.B. - MEYER, J. - REDDY, P. - HUGHES, E.T. - MUKHERJEE, K. *Versatile strain relief pathways in epitaxial films of (001)-oriented PbSe on III-V substrates*. In *PHYSICAL REVIEW MATERIALS*. ISSN 2475-9953, FEB 17 2023, vol. 7, no. 2. Dostupné na:

<https://doi.org/10.1103/PhysRevMaterials.7.024602>, Registrované v: WOS

ADCA486 STOKLAS, Roman - GREGUŠOVÁ, Dagmar - NOVÁK, Jozef - VESCAN, A. - KORDOŠ, Peter. Investigation of trapping effects in AlGaIn/GaN/Si field-effect transistors by frequency dependent capacitance and conductance analysis. In *Applied Physics Letters*, 2008, vol. 93, no. 124103. (2007: 3.596 - IF, Q1 - JCR, 3.012 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents, WOS, SCOPUS). ISSN 0003-6951.

Citácie:

1. [1.1] MILLER, N.C. - GRUPEN, M. - ISLAM, A.E. - ALBRECHT, J.D. - FREY, D. - YOUNG, R. - LINDQUIST, M. - GREEN, A.J. - WALKER, D. - CHABAK, K.D. *Experimentally Validated Gate-Lag Simulations of AlGaIn/GaN HEMTs Using Fermi Kinetics Transport*. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. ISSN 0018-9383, FEB 2023, vol. 70, no. 2, p. 435-442. Dostupné na:

<https://doi.org/10.1109/TED.2022.3229291>, Registrované v: WOS

2. [1.1] SU, H.K. - ZHANG, T. - XU, S.R. - TAO, H.C. - YUN, B.X. - ZHANG, J.C. - HAO, Y. *Interface state analysis of Schottky-gated p-AlGaIn/u-GaN/AlGaIn p-FET with negligible hysteresis at high temperatures*. In *APPLIED PHYSICS LETTERS*. ISSN 0003-6951, SEP 25 2023, vol. 123, no. 13. Dostupné na:

<https://doi.org/10.1063/5.0156040>, Registrované v: WOS

3. [1.1] SU, H.K. - ZHANG, T. - XU, S.R. - TAO, H.C. - ZHANG, J.C. - HAO, Y. *Normally-Off p-Channel AlGaIn/GaN/AlGaIn MESFET With High Breakdown Voltage and Ultra-Low Interface State Density*. In *IEEE ELECTRON DEVICE LETTERS*. ISSN 0741-3106, DEC 2023, vol. 44, no. 12, p. 1939-1942. Dostupné na:

<https://doi.org/10.1109/LED.2023.3323497>, Registrované v: WOS

ADCA487 STOKLAS, Roman** - GREGUŠOVÁ, Dagmar - HASENÖHRL, Stanislav - BRYTAVSKYI, E. - ĎAPAJNA, Milan - FRÖHLICH, Karol - HAŠČÍK, Štefan - GREGOR, M. - KUZMÍK, Ján. Characterization of interface states in AlGaIn/GaN metal-oxide-semiconductor heterostructure field-effect transistors with HfO₂ gate dielectric grown by atomic layer deposition. In *Applied Surface Science*, 2018, vol. 461, p. 255-259. (2017: 4.439 - IF, Q1 - JCR, 1.093 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2018.05.191>

Citácie:

1. [1.1] WU, N.T. - XING, Z.H. - LI, S.J. - LUO, L. - ZENG, F.Y. - LI, G.Q. *GaN-based power high-electron-mobility transistors on Si substrates: from materials to devices*. In *SEMICONDUCTOR SCIENCE AND TECHNOLOGY*. ISSN 0268-1242, JUN 1 2023, vol. 38, no. 6. Dostupné na: <https://doi.org/10.1088/1361->

6641/acca9d, Registrované v: WOS

2. [1.1] ZHU, X.F. - ZHANG, Y.L. - ZHANG, J. - LI, T. - JUNG, I.H. - SU, Y.Y. - GAI, W.H. A low-temperature prepared composite coating to protect SiC-coated C/C composites against oxidation in a wide temperature range for long-life service. In *JOURNAL OF THE EUROPEAN CERAMIC SOCIETY*. ISSN 0955-2219, AUG 2023, vol. 43, no. 10, p. 4349-4362. Dostupné na:

<https://doi.org/10.1016/j.jeurceramsoc.2023.03.037>, Registrované v: WOS

ADCA488

STOKLAS, Roman - GREGUŠOVÁ, Dagmar - HUŠEKOVÁ, Kristína - MAREK, J. - KORDOŠ, Peter. Trapped charge effects in AlGaIn/GaN metal-oxide-semiconductor structures with Al₂O₃ and ZrO₂ gate insulator. In *Semiconductor Science and Technology*, 2014, vol. 29, 045003. (2013: 2.206 - IF, Q1 - JCR, 1.173 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0268-1242. Dostupné na: <https://doi.org/10.1088/0268-1242/29/4/045003>

Citácie:

1. [1.1] HEBALI, K. - BOUGUENNA, D. - BELOUFA, A. - LOAN, S.A.

Performance Analysis of GaN/AlGaIn/AlN/GaN MIS-MODFETs with High- κ as Gate Dielectric Insulator Layer. In *TRANSACTIONS ON ELECTRICAL AND ELECTRONIC MATERIALS*. ISSN 1229-7607, JUN 2023, vol. 24, no. 3, p. 250-257. Dostupné na: <https://doi.org/10.1007/s42341-023-00442-y>, Registrované v: WOS

2. [1.1] MANJUNATH, V. - CHALAPATHI, U. - REDDY, B.P. - AHN, C.H. - PARK, S.H. Analysis of the chemical states and microstructural, electrical, and carrier transport properties of the Ni/HfO₂/Ga₂O₃/n-GaN MOS junction. In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*. ISSN 0957-4522, MAR 2023, vol. 34, no. 9. Dostupné na:

<https://doi.org/10.1007/s10854-023-10149-8>, Registrované v: WOS

ADCA489

STOKLAS, Roman - GREGUŠOVÁ, Dagmar - GAŽI, Štefan - NOVÁK, Jozef - KORDOŠ, Peter. Performance of AlGaIn/GaN metal-insulator-semiconductor heterostructure field-effect transistors with AlN gate insulator prepared by reactive magnetron sputtering. In *Journal of Vacuum Science and Technology B*, 2011, vol. 29, 01A809. (2010: 1.271 - IF, Q2 - JCR, 0.900 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1071-1023. Dostupné na: <https://doi.org/10.1116/1.3523362>

Citácie:

1. [1.1] FUKUHARA, N. - HORIKIRI, F. - YAMAMOTO, T. - OSADA, T. -

KASAHARA, K. - INOUE, T. - EGAWA, T. Admittance frequency dispersion in lateral AlGaIn/GaN Schottky barrier diodes: Other origins of two Gp/ ω peaks. In *JOURNAL OF APPLIED PHYSICS*. ISSN 0021-8979, FEB 28 2023, vol. 133, no. 8. Dostupné na: <https://doi.org/10.1063/5.0127499>, Registrované v: WOS

ADCA490

STOKLAS, Roman - CHVÁLA, A. - ŠICHMAN, Peter - HASENÖHRL, Stanislav - HAŠČÍK, Štefan - PRIESOL, J. - ŠATKA, A. - KUZMÍK, Ján**. Analysis and modeling of vertical current conduction and breakdown mechanisms in semi-insulating GaN grown on GaN: role of deep levels. In *IEEE Transactions on Electron Devices*, 2021, vol. 68, no. 2365. (2020: 2.917 - IF, Q2 - JCR, 0.828 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0018-9383. Dostupné na: <https://doi.org/10.1109/TED.2021.3065893>

Citácie:

1. [1.1] QIN, Y. - ALBANO, B. - SPENCER, J. - LUNDH, J.S. - WANG, B.Y. -

BUTTAY, C. - TADJER, M. - DIMARINO, C. - ZHANG, Y.H. Thermal management and packaging of wide and ultra-wide bandgap power devices: a review and perspective. In *JOURNAL OF PHYSICS D-APPLIED PHYSICS*. ISSN 0022-3727, MAR 2 2023, vol. 56, no. 9. Dostupné na:

ADCA491

<https://doi.org/10.1088/1361-6463/acb4ff>, Registrované v: WOS
SUROVČÍK, J.** - MEDVECKÁ, V. - GREGUŠ, J. - GREGOR, M. - ROCH, T. -
HVIŽDOŠOVÁ, Adriana, Annušová - ĎURINA, P. - VOJTEKOVÁ, Tatiana.
Characterization of TiO₂ nanofibers with enhanced photocatalytic properties
prepared by plasma assisted calcination. In *Ceramics International*, 2022, vol. 48, no.
24, p. 37322-37332. (2021: 5.532 - IF, Q1 - JCR, 0.887 - SJR, Q1 - SJR,
karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 0272-8842.
Dostupné na: <https://doi.org/10.1016/j.ceramint.2022.08.309>

Citácie:

1. [1.1] BIBI, Firdous - IQBAL, Shahid - KALSOOM, Ambreen - JAMSHAD,
Muhammad - AHMED, Adeel - MIRZA, Misbah - QURESHI, Waseem Akhtar.
Magnetically separable Nd and Mn co-doped SrFe₁₂O₁₉ hexa-ferrites
nanostructures for the evaluation of structural, magnetic and photo-catalytic
studies under solar irradiation for the crystal violet dye removal from the
industrial wastes. In *CERAMICS INTERNATIONAL*, 2023, vol. 49, no. 10, pp.
15990-16001. ISSN 0272-8842. Dostupné na:

<https://doi.org/10.1016/j.ceramint.2023.01.196>, Registrované v: WOS

2. [1.1] CHEN, Xingzheng - LI, Gan - XIAO, Songtao - XUE, Wenjuan - ZHAO,
Xudong - YANG, Qingyuan. Efficient Capture of Th(IV) and U(VI) by Radiation-
Resistant Oxygen-Rich Ion Traps Based on a Metal-Organic Framework. In *ACS
APPLIED MATERIALS & INTERFACES*, 2023, vol. 15, no. 20, pp. 25029-25040.
ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.3c02582>,
Registrované v: WOS

3. [1.1] POURNEMATI, Khadijeh - HABIBI-YANGJEH, Aziz - KHATAEE,
Alireza. Outstanding photocatalytic nitrogen fixation performance of TiO₂ QDs
modified by Bi₂O₃/NaBiS₂ nanostructures upon simulated sunlight. In *JOURNAL
OF COLLOID AND INTERFACE SCIENCE*, 2023, vol. 641, no., pp. 1000-1013.
ISSN 0021-9797. Dostupné na: <https://doi.org/10.1016/j.jcis.2023.03.122>,
Registrované v: WOS

4. [1.1] VIDA, Julius - GEMEINER, Pavol - PAVLICKOVA, Michaela -
MAZALOVA, Martina - SOUCEK, Pavel - PLASIENKA, Dusan - HOMOLA,
Tomas. Nanocrystalline TiO₂/Ti₃C₂ MXene
composites with a tunable work function prepared using atmospheric pressure
oxygen plasma. In *NANOSCALE*, 2023, vol. 15, no. 3, pp. 1289-1298. ISSN 2040-
3364. Dostupné na: <https://doi.org/10.1039/d2nr04465j>, Registrované v: WOS

5. [1.1] YOO, Sun-Ho - YOON, Han-Sol - HAN, HyukSu - NA, Kyeong-Han -
CHOI, Won-Youl. Fabrications of Electrospun Mesoporous TiO₂/
Nanofibers with Various Amounts of PVP and Photocatalytic Properties on
Methylene Blue (MB) Photodegradation. In *POLYMERS*, 2023, vol. 15, no. 1, pp.
Dostupné na: <https://doi.org/10.3390/polym15010134>, Registrované v: WOS

ADCA492

SZULC, K.** - GRACZYK, P. - MRUCZKIEWICZ, Michal - GUBBIOTTI, G. -
KRAWCZYK, M. Spin-wave diode and circulator based on unidirectional coupling.
In *Physical Review Applied*, 2020, vol. 14, no. 034063. (2019: 4.194 - IF, Q1 - JCR,
1.866 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2331-
7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.14.034063> (APVV 19-
0311. APVV 16-0068)

Citácie:

1. [1.1] ADHIKARI, A. - MAJUMDER, S. - OTANI, Y. - BARMAN, A. Active
Control of Dipole-Exchange Coupled Magnon Modes in Nanoscale Bicomponent
Magnonic Crystals. In *ACS APPLIED NANO MATERIALS*. APR 25 2023, vol. 6,
no. 9, p. 7166-7172. Dostupné na: <https://doi.org/10.1021/acsanm.2c05441>,
Registrované v: WOS

2. [1.1] GEREVENKOV, P.I. - BESSONOV, V.D. - TEPLOV, V.S. - TELEGIN, A.V. - KALASHNIKOVA, A.M. - KHOKHLOV, N.E. Nonreciprocal collective magnetostatic wave modes in geometrically asymmetric bilayer structure with nonmagnetic spacer. In *NANOSCALE*. ISSN 2040-3364, APR 6 2023, vol. 15, no. 14, p. 6785-6792. Dostupné na: <https://doi.org/10.1039/d2nr06003e>, Registrované v: WOS
3. [1.1] GEREVENKOV, P.I. - FILATOV, I.A. - KALASHNIKOVA, A.M. - KHOKHLOV, N.E. Unidirectional Propagation of Spin Waves Excited by Femtosecond Laser Pulses in a Planar Waveguide. In *PHYSICAL REVIEW APPLIED*. ISSN 2331-7019, FEB 23 2023, vol. 19, no. 2. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.19.024062>, Registrované v: WOS
4. [1.1] KUZNETSOV, M.A. - FRAERMAN, A.A. Magnetostatic Mechanism of Chiral Symmetry Breaking in Multilayer Magnetic Structures. In *JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS*. ISSN 1063-7761, OCT 2023, vol. 137, no. 4, SI, p. 442-452. Dostupné na: <https://doi.org/10.1134/S1063776123100187>, Registrované v: WOS
5. [1.1] KüSS, M. - HASSAN, M. - KUNZ, Y. - HÖRNER, A. - WEILER, M. - ALBRECHT, M. Nonreciprocal transmission of magnetoacoustic waves in compensated synthetic antiferromagnets. In *PHYSICAL REVIEW B*. ISSN 2469-9950, JUN 8 2023, vol. 107, no. 21. Dostupné na: <https://doi.org/10.1103/PhysRevB.107.214412>, Registrované v: WOS
6. [1.1] MOROZOVA, M.A. - LOBANOV, N.D. - MATVEEV, O.V. - NIKITOV, S.A. Spin current for tuning the band gaps of spin waves. In *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*. ISSN 0304-8853, DEC 15 2023, vol. 588, A. Dostupné na: <https://doi.org/10.1016/j.jmmm.2023.171418>, Registrované v: WOS
7. [1.1] MOROZOVA, M.A. - LOBANOV, N.D. - MATVEEV, O.V. - ROMANENKO, D.V. - NIKITOV, S.A. Bragg resonances in sandwich magnonic crystals with non-identical periods. In *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*. ISSN 0304-8853, OCT 15 2023, vol. 584. Dostupné na: <https://doi.org/10.1016/j.jmmm.2023.171051>, Registrované v: WOS
8. [1.1] TACCHI, S. - FLORES-FARIAS, J. - PETTI, D. - BREVIS, F. - CATTONI, A. - SCARAMUZZI, G. - GIRARDI, D. - CORTÉS-ORTUÑO, D. - GALLARDO, R.A. - ALBISETTI, E. - CARLOTTI, G. - LANDEROS, P. Experimental Observation of Flat Bands in One-Dimensional Chiral Magnonic Crystals. In *NANO LETTERS*. ISSN 1530-6984, JUN 21 2023, vol. 23, no. 14, p. 6776-6783. Dostupné na: <https://doi.org/10.1021/acs.nanolett.2c04215>, Registrované v: WOS
9. [1.1] TACCHI, S. - SILVANI, R. - KUEPFERLING, M. - SCARIONI, A.F. - SIEVERS, S. - SCHUMACHER, H.W. - DARWIN, E. - SYSKAKI, M.A. - JAKOB, G. - KLAUI, M. - CARLOTTI, G. Suppression of spin-wave nonreciprocity due to interfacial Dzyaloshinskii-Moriya interaction by lateral confinement in magnetic nanostructures. In *PHYSICAL REVIEW B*. ISSN 2469-9950, JUL 31 2023, vol. 108, no. 2. Dostupné na: <https://doi.org/10.1103/PhysRevB.108.024430>, Registrované v: WOS
10. [1.1] WANG, H.C. - WANG, J.L. - CHEN, S.Y. - CHEN, P. - LEGRAND, W. - ZHANG, Y. - SHENG, L.T. - YUAN, R.D. - CHEN, J.L. - YU, G.Q. - WAN, C.H. - HAN, X.F. - LIU, T. - ANSERMET, J.P. - YU, H.M. Reconfigurable nonreciprocal excitation of propagating exchange spin waves in perpendicularly magnetized yttrium iron garnet thin films. In *PHYSICAL REVIEW B*. ISSN 2469-9950, OCT 3 2023, vol. 108, no. 13. Dostupné na: <https://doi.org/10.1103/PhysRevB.108.134403>, Registrované v: WOS
11. [1.1] YU, T. - LUO, Z.C. - BAUER, G.E.W. Chirality as generalized spin-orbit

interaction in spintronics. In PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS. ISSN 0370-1573, APR 10 2023, vol. 1009, p. 1-115. Dostupné na: <https://doi.org/10.1016/j.physrep.2023.01.002>, Registrované v: WOS

12. [1.1] YUAN, H.Y. - LAVRIJSEN, R. - DUINE, R.A. *Unidirectional magnetic coupling induced by chiral interaction and nonlocal damping. In PHYSICAL REVIEW B. ISSN 2469-9950, JAN 19 2023, vol. 107, no. 2. Dostupné na: <https://doi.org/10.1103/PhysRevB.107.024418>, Registrované v: WOS*

13. [1.1] ZHANG, X.F. - SHIM, J.H. - MA, X.P. - SONG, C. - YU, H.M. - PIAO, H.G. *Asymmetric scattering behaviors of spin wave dependent on magnetic vortex chirality. In CHINESE PHYSICS B. ISSN 1674-1056, OCT 1 2023, vol. 32, no. 10. Dostupné na: <https://doi.org/10.1088/1674-1056/acd36a>, Registrované v: WOS*

14. [1.1] ZHAO, J.N. - FENG, L.H. - MA, M.Y. - MA, F.S. *Three-terminal magnonic demultiplexer, power divider, and circulator. In JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS. ISSN 0304-8853, NOV 15 2023, vol. 586. Dostupné na: <https://doi.org/10.1016/j.jmmm.2023.171161>, Registrované v: WOS*

ADCA493 SZULC, K.** - MENDISCH, S. - MRUCZKIEWICZ, Michal - CASOLI, F. - BECHERER, M. - GUBBIOTTI, G. *Nonreciprocal spin-wave dynamics in Pt/Co/W/Co/Pt multilayers. In Physical Review B, 2021, vol. 103, no. 13, art. no. 134404. (2020: 4.036 - IF, Q2 - JCR, 1.780 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.103.134404> (APVV 16-0068. APVV 19-0311. ITMS2014+: 313021T081 : Vybudovanie Centra pre využitie pokročilých materiálov Slovenskej akadémie vied)*

Citácie:

1. [1.1] GORNAKOV, V.S. - SHASHKOV, I.V. - TIKHOMIROV, O.A. - KABANOV, Y.P. *Spacer Thickness and Temperature Dependences of the Interlayer Exchange Coupling in a Co/Pt/Co Three-Layer Structure. In MAGNETOCHEMISTRY. JUL 2023, vol. 9, no. 7. Dostupné na: <https://doi.org/10.3390/magnetochemistry9070176>, Registrované v: WOS*

2. [1.1] SUN, J.J. - SHI, S.B. - WANG, Y. - WANG, J. *Phase field modeling of topological magnetic structures in ferromagnetic materials: domain wall, vortex, and skyrmion. In ACTA MECHANICA. ISSN 0001-5970, FEB 2023, vol. 234, no. 2, p. 283-311. Dostupné na: <https://doi.org/10.1007/s00707-022-03395-0>, Registrované v: WOS*

3. [1.1] WEISS, C. - GRASSI, M. - ROUSSIGNÉ, Y. - STASHKEVICH, A. - SCHEFER, T. - ROBERT, J. - BAILLEUL, M. - KOSTYLEV, M. *Excitation and reception of magnetostatic surface spin waves in thin conducting ferromagnetic films by coplanar microwave antennas. Part II: Experiment. In JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS. ISSN 0304-8853, JAN 1 2023, vol. 565. Dostupné na: <https://doi.org/10.1016/j.jmmm.2022.170002>, Registrované v: WOS*

ADCA494 ŠAFRÁNKOVÁ, Jaroslava - HURAN, Jozef - HOTOVÝ, I. - KOBZEV, A.P. - KORENEV, S.A. *Characterization of nitrogen-doped amorphous silicon carbide thin films. In Vacuum, 1998, vol. 51, p. 165-167. (1997: 0.480 - IF, karentované - CCC). (1998 - Current Contents).*

Citácie:

1. [1.1] LOPEZ-RODRIGUEZ, B. - VAN DER KOLK, R. - AGGARWAL, S. - SHARMA, N. - LI, Z.Z. - VAN DER PLAATS, D. - SCHOLTE, T. - CHANG, J. - GROBLACHER, S. - PEREIRA, S.F. - BHASKARAN, H. - ZADEH, I.E. *High-*

Quality Amorphous Silicon Carbide for Hybrid Photonic Integration Deposited at a Low Temperature. In ACS PHOTONICS. ISSN 2330-4022, SEP 21 2023, vol. 10, no. 10, p. 3748-3754. Dostupné na:

https://doi.org/10.1021/acsphotonics.3c00968, Registrované v: WOS

ADCA495 ŠAGÁTOVÁ, A. - ZAŤKO, Bohumír - DUBECKÝ, František - LY ANH, T. - NEČAS, V. - SEDLAČKOVÁ, K. - PAVLOVIČ, M. - FULOP, M. Radiation hardness of GaAs sensors against gamma-rays, neutrons and electrons. In Applied Surface Science, 2017, vol. 395, p. 66-71. (2016: 3.387 - IF, Q1 - JCR, 0.958 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2016.08.167>

Citácie:

1. [1.1] SINGH, C.N. - UBERUAGA, B.P. - TOBIN, S.J. - LIU, X.Y. Impact of radiation-induced point defects on thermal carrier decay processes in GaAs. In ACTA MATERIALIA. ISSN 1359-6454, JAN 1 2023, vol. 242. Dostupné na:

https://doi.org/10.1016/j.actamat.2022.118480, Registrované v: WOS

ADCA496 ŠAGÁTOVÁ, A.** - KOVÁČOVÁ, Eva - NOVÁK, A. - FÜLÖP, Marko - ZAŤKO, Bohumír. Current-voltage characterization of GaAs detectors and their holders irradiated by high-energy electrons. In Applied Surface Science, 2021, vol. 552, p. 149474. (2020: 6.707 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2021.149474>

Citácie:

1. [1.1] MOLOI, S.J. - BODUNRIN, J.O. Characterisation of interface states of Al/p-Si Schottky diode by current-voltage and capacitance-voltage-frequency measurements. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. ISSN 0957-4522, AUG 2023, vol. 34, no. 24. Dostupné na:

https://doi.org/10.1007/s10854-023-11090-6, Registrované v: WOS

ADCA497 ŠAGÁTOVÁ, A.** - KRŠJAK, V. - SOJÁK, Stanislav - RIABUKHIN, O. - KOVÁČOVÁ, Eva - ZAŤKO, Bohumír. Semi-insulating GaAs detectors degraded by 8 MeV electrons up to 1500 kGy. In Journal of Instrumentation, 2021, vol. 16, no. C12032. (2020: 1.415 - IF, Q4 - JCR, 0.741 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 1748-0221. Dostupné na: <https://doi.org/10.1088/1748-0221/16/12/C12032>

Citácie:

1. [1.1] VRBAN, B. - CERBA, S. - LüLEY, J. - FILOVÁ, V. - NECAS, V. Printed circuit heat exchangers and fast neutron radiography. In EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS. ISSN 1951-6355, AUG 2023, vol. 232, no. 10, SI, p. 1645-1656. Dostupné na: <https://doi.org/10.1140/epjs/s11734-023-00887-5>,

Registrované v: WOS

ADCA498 ŠEBESTA, M.** - NEMČEK, L. - URÍK, Martin - KOLENČÍK, Marek - BUJDOŠ, Marek - VÁVRA, Ivo - DOBROČKA, Edmund - MATÚŠ, Peter. Partitioning and stability of ionic, nano- and micro-sized zinc in natural. In Science of the Total Environment, 2020, vol. 700, no. 134445. (2019: 6.551 - IF, Q1 - JCR, 1.661 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0048-9697. Dostupné na: <https://doi.org/10.1016/j.scitotenv.2019.134445>

Citácie:

1. [1.1] ANIK, T.R. - MOSTOFA, M.G. - RAHMAN, M. - KHAN, A.R. - GHOSH, P.K. - SULTANA, S. - DAS, A.K. - HOSSAIN, S. - KEYA, S.S. - RAHMAN, A. - JAHAN, N. - GUPTA, A. - TRAN, L.S.P. Zn Supplementation Mitigates Drought Effects on Cotton by Improving Photosynthetic Performance and Antioxidant Defense Mechanisms. In ANTIOXIDANTS. APR 2023, vol. 12, no. 4. Dostupné na: <https://doi.org/10.3390/antiox12040854>, Registrované v: WOS

2. [1.1] KHAN, A.R. - AZHAR, W. - FAN, X.M. - ULHASSAN, Z. - SALAM, A. - ASHRAF, M. - LIU, Y.H. - GAN, Y.B. *Efficacy of zinc-based nanoparticles in alleviating the abiotic stress in plants: current knowledge and future perspectives.* In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, NOV 2023, vol. 30, no. 51, p. 110047-110068. Dostupné na:

<https://doi.org/10.1007/s11356-023-29993-6>, Registrované v: WOS

3. [1.1] RUIZ-LEYVA, I. - PARAGUAY-DELGADO, F. - SALAS-LEIVA, D.E. - LUNA-VELASCO, A. - PARIONA, N. - ORRANTIA-BORUNDA, E. - SALAS-LEIVA, J.S. *Taxonomic and functional diversity of bacterial communities of agriculture soil exposed to zinc peroxide nanoparticles (nZnO₂).* In APPLIED SOIL ECOLOGY. ISSN 0929-1393, SEP 2023, vol. 189. Dostupné na:

<https://doi.org/10.1016/j.apsoil.2023.104901>, Registrované v: WOS

4. [1.1] WANG, F. - LIU, Y.X. - CAO, M.M. - ZHOU, B.H. - CHEN, H.L. - YUAN, R.F. - LIU, S.H. - XING, B.S. *Mechanisms of ZnO Nanoparticles Enhancing Phototransformation of Biologically Derived Organic Phosphorus in Aquatic Environments.* In ENVIRONMENTAL SCIENCE & TECHNOLOGY. ISSN 0013-936X, MAR 7 2023, vol. 57, no. 9, p. 3691-3702. Dostupné na:

<https://doi.org/10.1021/acs.est.3c00704>, Registrované v: WOS

5. [1.2] SHARMA, Pinki - CHAUHAN, Nar Singh. *Economic aspect of nanomaterial-based agriculture solutions.* In *The Impact of Nanoparticles on Agriculture and Soil*, 2023-01-01, pp. 363-383. Dostupné na:

<https://doi.org/10.1016/B978-0-323-91703-2.00016-6>, Registrované v: SCOPUS

ADCA499

ŠEBESTA, M.** - URÍK, Martin - BUJDOŠ, M. - KOLENČÍK, Marek - VÁVRA, Ivo - DOBROČKA, Edmund - KIM, H.J. - MATUŠ, P. *Fungus aspergillus niger processes exogenous zinc nanoparticles into a biogenic oxalate mineral.* In Journal of Fungi, 2020, vol. 6, no. 210. (2019: 4.621 - IF, Q1 - JCR, 1.416 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2309-608X. Dostupné na: <https://doi.org/10.3390/jof6040210>

Citácie:

1. [1.1] ALHOLY, T. - KHADDAM, W. *Biosynthesis of Magnesium Oxide Nanoparticles Using Opuntia ficus-indica and Their Antifungal Effect Against Aspergillus Niger.* In JOURNAL OF RESEARCH IN PHARMACY. ISSN 2630-6344, 2023, vol. 27, no. 3, p. 1188-1201. Dostupné na:

<https://doi.org/10.29228/jrp.408>, Registrované v: WOS

2. [1.1] AMIN, Z.S. - AFZAL, M. - AHMAD, J. - AHMED, N. - ZESHAN, B. - HASHIM, N.H.H.N. - YEAN, C.Y. *Synthesis, Characterization and Biological Activities of Zinc Oxide Nanoparticles Derived from Secondary Metabolites of Lentinula edodes.* In MOLECULES. APR 2023, vol. 28, no. 8. Dostupné na:

<https://doi.org/10.3390/molecules28083532>, Registrované v: WOS

3. [1.2] Annamalai, J., Ganesan, S., Murugan, K., Janjaroen, D.: *Recent breakthroughs set by fungal enzymes in the biosynthesis of nanoparticles In Fungal Cell Factories for Sustainable Nanomaterials Production and Agricultural Applications.* ISBN 978-032399922-9. Elsevier 2023. P. 131 - 162, Registrované v: SCOPUS

ADCA500

ŠEBESTA, M.** - KOLENČÍK, Marek - URÍK, Martin - BUJDOŠ, M. - VÁVRA, Ivo - DOBROČKA, Edmund - SMILEK, J. - KALINA, M. - DIVIŠ, Pavel - PAVUK, M. - MIGLIERINI, M. - KRATOŠOVÁ, G. - MATUŠ, Peter. *Increased colloidal stability and decreased solubility-sol-gel synthesis of zinc oxide nanoparticles with humanic acids.* In Journal of Nanoscience and Nanotechnology, 2019, vol. 19, p. 3024-3030. (2018: 1.093 - IF, Q4 - JCR, 0.233 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1533-4880. Dostupné na: <https://doi.org/10.1166/jnn.2019.15868>

Citácie:

1. [1.1] LARIONOV, K.S. - VOLIKOV, A. - SOBOLEV, N.A. - KOZLOV, D.A. - PERMINOVA, I. *Slow zinc release from carboxymethylcellulose gels filled with humic zinc oxide nano-composites. In NANOSYSTEMS-PHYSICS CHEMISTRY MATHEMATICS. ISSN 2220-8054, DEC 2023, vol. 14, no. 6, p. 652-659.*

Dostupné na: <https://doi.org/10.17586/2220-8054-2023-14-6-652-659>,

Registrované v: WOS

ADCA501

ŠEBO, Pavol - MOSER, Zbigniew - ŠVEC, Peter - JANIČKOVIČ, Dušan - DOBROČKA, Edmund - GASIOR, Wladyslaw - PSTRUŠ, Janus. Effect of indium on the microstructure of the interface between Sn₃.13Ag_{0.74}CuIn solder and Cu substrate. In *Journal of Alloys and Compounds*, 2009, vol. 480, no. 2, p. 409-415. (2008: 1.510 - IF, Q1 - JCR, 0.888 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2009.02.110>

Citácie:

1. [1.1] HAN, J. - CAO, H. - MENG, Z. - JIN, X.L. - MA, L.M. - GUO, F. - AN, T. - WANG, T. *Study on Electromigration Mechanism of Lead-Free Sn₃.5Ag_{0.5}Bi_{8.0}In Solder Joints. In JOURNAL OF ELECTRONIC MATERIALS. ISSN 0361-5235, FEB 2023, vol. 52, no. 2, SI, p. 1216-1232. Dostupné na: <https://doi.org/10.1007/s11664-022-10006-0>, Registrované v: WOS*

2. [1.1] QI, D. - YANG, W.C. - ZHAO, H. - ZHANG, L. - JIANG, S.W. - SONG, Q.Q. - FU, Y.K. - ZHAN, Y.Z. *Effects of Cu and In on the microstructure evolution and mechanical properties of Sn-20Bi/Cu solder joints. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. ISSN 0957-4522, FEB 2023, vol. 34, no. 6. Dostupné na: <https://doi.org/10.1007/s10854-022-09593-9>, Registrované v: WOS*

3. [1.1] QI, Da - YANG, Wen Chao - ZHAO, Hong - ZHANG, Lei - JIANG, Shi Wei - SONG, Qian Qian - FU, Yao Kun - ZHAN, Yong Zhong. *Effects of Cu and In on the microstructure evolution and mechanical properties of Sn-20Bi/Cu solder joints. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, 2023, vol. 34, no. 6, pp. ISSN 0957-4522. Dostupné na: <https://doi.org/10.1007/s10854-022-09593-9>, Registrované v: WOS*

ADCA502

ŠICHMAN, Peter - HASENÖHRL, Stanislav - STOKLAS, Roman - PRIESOL, J. - DOBROČKA, Edmund - HAŠČÍK, Štefan - GUCMANN, Filip - VINCZE, A. - CHVÁLA, A. - MAREK, J. - ŠATKA, A. - KUZMÍK, Ján**. *Semi-insulating GaN for vertical structures: role of substrate selection and growth pressure. In Materials science in semiconductor processing, 2020, vol. 118, no. 105203. (2019: 3.085 - IF, Q2 - JCR, 0.665 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1369-8001. Dostupné na: <https://doi.org/10.1016/j.mssp.2020.105203> (APVV 18-0054. VEGA 2/0012/18)*

Citácie:

1. [1.1] QIN, Y. - ALBANO, B. - SPENCER, J. - LUNDH, J.S. - WANG, B.Y. - BUTTAY, C. - TADJER, M. - DIMARINO, C. - ZHANG, Y.H. *Thermal management and packaging of wide and ultra-wide bandgap power devices: a review and perspective. In JOURNAL OF PHYSICS D-APPLIED PHYSICS. ISSN 0022-3727, MAR 2 2023, vol. 56, no. 9. Dostupné na: <https://doi.org/10.1088/1361-6463/acb4ff>, Registrované v: WOS*

ADCA503

ŠIMKOVIC, Ivan** - GUCMANN, Filip - MENDICHI, Raniero - GIACOMETTI SCHIERONI, Alberto - PIOVANI, Daniele - DOBROČKA, Edmund - HRICOVÍNI, Miloš. *Extraction and characterization of polysaccharide films prepared from *Furcellaria lumbricalis* and *Gigartina skottsbergii* seaweeds. In Cellulose, 2021, vol. 28, p. 9567-9588. (2020: 5.044 - IF, Q1 - JCR, 0.948 - SJR, Q1 - SJR, karentované -*

CCC). (2021 - Current Contents). ISSN 0969-0239. Dostupné na:

<https://doi.org/10.1007/s10570-021-04138-5>

Citácie:

1. [1.1] ALVAREZ-VIÑAS, M. - RIVAS, S. - TORRES, M.D. - DOMÍNGUEZ, H. Microwave-Assisted Extraction of Carrageenan from *Sarcopeltis skottsbergii*. In *MARINE DRUGS*. FEB 2023, vol. 21, no. 2. Dostupné na:

<https://doi.org/10.3390/md21020083>, Registrované v: WOS

2. [1.1] KRUK, J. - TKACZEWSKA, J. - SZUWARZYNSKI, M. - MAZUR, T. - JAMRÓZ, E. Influence of storage conditions on functional properties of multilayer biopolymer films based on chitosan and furcellaran enriched with carp protein hydrolysate. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, FEB 2023, vol. 135. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2022.108214>, Registrované v: WOS

3. [1.1] RODRIGUES, L.H.M. - DE OLIVEIRA, F.F.B. - BEZERRA, F.F. - OLIVEIRA, S.R.B.D. - BINGANA, R.D. - DO CARMO, L.D. - MELO, M.R.S. - CHAVES, L.D. - BARBOSA, A.L.D. - MEDEIROS, J.V.R. - SOARES, P.M.G. - MOURAO, P.A.D. - SOUZA, M.H.L.P. - FREITAS, A.L.P. - DAMASCENO, R.O.S. An iota-carrageenan isolated from marine alga *Agardhiella ramosissima* negatively modulates the inflammatory response in arthritis conditions. In *BIOACTIVE CARBOHYDRATES AND DIETARY FIBRE*. ISSN 2212-6198, NOV 2023, vol. 30. Dostupné na: <https://doi.org/10.1016/j.bcdf.2023.100386>, Registrované v: WOS

4. [1.1] SONCHAENG, U. - WONGPHAN, P. - PAN-UTAI, W. - PAOPUN, Y. - KANSANDEE, W. - SATMALEE, P. - TAMTIN, M. - KOSAWATPAT, P. - HARNKARNSUJARIT, N. Preparation and Characterization of Novel Green Seaweed Films from *Ulva rigida*. In *POLYMERS*. AUG 2023, vol. 15, no. 16. Dostupné na: <https://doi.org/10.3390/polym15163342>, Registrované v: WOS

5. [1.1] WANG, H.T. - CAO, Z. - YAO, L.Y. - FENG, T. - SONG, S.Q. - SUN, M. Insights into the Edible and Biodegradable Ulvan-Based Films and Coatings for Food Packaging. In *FOODS*. APR 2023, vol. 12, no. 8. Dostupné na: <https://doi.org/10.3390/foods12081622>, Registrované v: WOS

ADCA504

ŠIMKOVIĆ, Ivan** - GUCMANN, Filip - HRICOVÍNI, Michal - MENDICHI, Raniero - GIACOMETTI SCHIERONI, Alberto - PIOVANI, Daniele - ZAPPIA, Stefania - DOBROČKA, Edmund - FILIP, Jaroslav - HRICOVÍNI, Miloš. Properties of quaternized and crosslinked carboxymethylcellulose films. In *Cellulose*, 2023, vol. 30, p. 2023 - 2036. (2022: 5.7 - IF, Q1 - JCR, 1.011 - SJR, Q1 - SJR). ISSN 0969-0239. Dostupné na: <https://doi.org/10.1007/s10570-022-05031-5>

Citácie:

1. [1.1] SHAN, T.S. - LI, J.S. - WU, S.Y. - WU, H. - ZHANG, F.S. - LIAO, G.F. - XIAO, H. - HUANG, L.L. - CHEN, L.H. Boosting H₂O₂ production over carboxymethyl cellulose modified g-C₃N₄ via hydrogen-bonding-assisted charge transfer. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, DEC 15 2023, vol. 478. Dostupné na: <https://doi.org/10.1016/j.cej.2023.147509>, Registrované v: WOS

ADCA505

ŠIMONOVÁ, Z.** - KRBEČKOVÁ, V. - VILAMOVÁ, Z. - DOBROČKA, Edmund - KLEJDUS, B. - CIESLAR, M. - SVOBODA, Ladislav - DVORSKÝ, Radovan - SEIDLEROVÁ, J. The effects of nature-inspired synthesis on silver nanoparticle generation. In *ACS Omega*, 2022, vol. 7, p. 4850–4858. (2021: 4.132 - IF, Q2 - JCR, 0.708 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2470-1343. Dostupné na:

<https://doi.org/10.1021/acsomega.1c05308>

Citácie:

1. [1.1] ZHU, Y.Z. - ZHU, R.B. - GUAN, P.Y. - LI, M.Y. - WAN, T. - HU, L. - ZHANG, S. - LIU, C. - SU, D.W. - LIU, Y.J. - LIU, D. - LI, Q. - YU, J. - CHU, D.W. *Designing MXene-Wrapped AgCl@Carbon core shell cathode for robust quasi-solid-state Ag-Zn battery with ultralong cycle life. In ENERGY STORAGE MATERIALS. ISSN 2405-8297, JUN 2023, vol. 60. Dostupné na: <https://doi.org/10.1016/j.ensm.2023.102836>, Registrované v: WOS*
2. [1.2] BHILKAR, P. R. - BODHNE, A. S. - YERPUDE, S. T. - MADANKAR, R. S. - SOMKUWAR, S. R. - DADDEMAL-CHAUDHARY, A. R. - LAMBAT, A. P. - DESIMONE, M. - SHARMA, Rohit - CHAUDHARY, R. G. *Phyto-derived metal nanoparticles: Prominent tool for biomedical applications. In OpenNano, 2023-11-01, 14, pp. ISSN 23529520. Dostupné na: <https://doi.org/10.1016/j.onano.2023.100192>, Registrované v: SCOPUS*
3. [1.2] TORO, Abdulhakim Umar - GUPTA, Vikas - SHUKLA, Sudheesh K. - BANSAL, Parveen. *Functional finishing of textile materials using silver-based functionalized nanoparticles: Health perspectives. In Antiviral and Antimicrobial Coatings Based on Functionalized Nanomaterials: Design, Applications, and Devices, 2023-01-01, pp. 333-363. Dostupné na: <https://doi.org/10.1016/B978-0-323-91783-4.00017-6>, Registrované v: SCOPUS*
- ADCA506 ŠKRINIAROVÁ, Jaroslava - KOVÁČ, Jozef - BREZA, J. - GREGUŠOVÁ, Dagmar. *Wet etching of InGaP and GaAs in HCl, H₃PO₄: H₂O₂. In Sensors and Materials, 1998, vol. 10, p. 213-218.*
Citácie:
1. [1.1] SAMANTA, S. *GaAs-based resonant tunneling diode: Device aspects from design, manufacturing, characterization and applications. In JOURNAL OF SEMICONDUCTORS. ISSN 1674-4926, OCT 1 2023, vol. 44, no. 10. Dostupné na: <https://doi.org/10.1088/1674-4926/44/10/103101>, Registrované v: WOS*
- ADCA507 ŠMATKO, Vasilij - GOLOVANOV, V. - LIU, C.C. - KIV, A. - FUKS, D. - DONCHEV, I. - IVANOVSKAYA, M. *Structural stability of In₂O₃ films as sensor materials. In Journal of Materials Science. Materials in Electronics, 2010, vol. 21, p. 360-363. (2009: 1.020 - IF, Q2 - JCR, 0.623 - SJR, Q2 - SJR, karentované - CCC). (2010 - Current Contents, SCOPUS). ISSN 0957-4522. Dostupné na: <https://doi.org/10.1007/s10854-009-9921-4>*
Citácie:
1. [1.1] HE, T. - LIU, H.C. - ZHANG, J. - YANG, Y.P. - HU, Y.J. - ZHANG, Y. - HU, K.L. *DFT study on the adsorption and sensing properties of dissolved gases (H₂, CO and CH₄) in transformer oil on PdO-doped In₂O₃ (110) surfaces. In CHEMICAL PHYSICS LETTERS. ISSN 0009-2614, DEC 2023, vol. 832. Dostupné na: <https://doi.org/10.1016/j.cplett.2023.140865>, Registrované v: WOS*
- ADCA508 ŠOUČ, Ján - GÖMÖRY, Fedor - VOJENČIAK, Michal. *Calibration free method for measurement of the AC magnetization loss. In Superconductor Science and Technology, 2005, vol. 18, p. 592-595. (2004: 1.556 - IF, karentované - CCC). (2005 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.*
Citácie:
1. [1.1] CUNINKOVÁ, E. - PEKARČIKOVÁ, M. - FROLEK, L. - SIMON, S. - SKARBA, M. - HULACOVÁ, S. - KRAJCOVIC, J. *Numerical and Experimental Design of the Former for TORT Cables. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3250383>, Registrované v: WOS*
2. [1.1] IJAGBEMI, K. - SHUKLA, D.P. - KIM, C.H. - TELIKAPALLI, S. - CHEETHAM, P. - PAMIDI, S. *Evaluation of Frequency Loss Induced Quench Protection Prototype at 77 K Using HTS Coils. In IEEE TRANSACTIONS ON*

APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3252497>, Registrované v: WOS 3. [1.1] KOVAC, J. - KOVAC, P. - RINDFLEISCH, M. - TOMSIC, M.

Magnetization AC losses of MgB₂ wires with thin filaments and resistive sheath. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, SEP 1 2023, vol. 36, no. 9. Dostupné na: <https://doi.org/10.1088/1361-6668/ace3fd>, Registrované v: WOS

4. [1.1] PEKARCÍKOVÁ, M. - FROLEK, L. - NECPAL, M. - CUNINKOVÁ, E. - SKARBA, M. - HULACOVÁ, S. - FERENCIK, F. - BOCÁKOVÁ, B. Optimization of REBCO Tapes through Division and Striation for Use in Superconducting Cables with Low AC Losses. In MATERIALS. DEC 2023, vol. 16, no. 23. Dostupné na: <https://doi.org/10.3390/ma16237333>, Registrované v: WOS

5. [1.1] SKARBA, M. - PEKARCÍKOVÁ, M. - FROLEK, L. - CUNINKOVÁ, E. - NECPAL, M. - SIMON, S. Striating of REBCO-Coated Conductors for AC Loss Reduction. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, DEC 2023, vol. 33, no. 9. Dostupné na: <https://doi.org/10.1109/TASC.2023.3327966>, Registrované v: WOS

ADCA509 ŠOUC, Ján - VOJENČIAK, Michal - GÖMÖRY, Fedor. Experimentally determined transport and magnetization ac losses of small cable models constructed from YBCO coated conductors. In Superconductor Science and Technology, 2010, vol. 23, 045029. (2009: 2.694 - IF, 1.256 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/23/4/045029>

Citácie:

1. [1.1] QIAO, Y.K. - SUN, Y.M. - BADCOCK, R.A. - STRICKLAND, N.M. - JIANG, Z.A. Simulation of Dynamic Resistance and Total Loss of HTS CORC Cables. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 797-807. Dostupné na: <https://doi.org/10.1109/ACCESS.2022.3232726>, Registrované v: WOS

ADCA510 ŠOUC, Ján - PARDO, Enric - VOJENČIAK, Michal - GÖMÖRY, Fedor. Theoretical and experimental study of AC loss in high temperature superconductor single pancake coils. In Superconductor Science and Technology, 2009, vol. 22, 015006. (2008: 1.847 - IF, Q2 - JCR, 1.867 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] CHEN, H.Y. - ZHANG, H.Y. AC loss mitigation for high temperature superconducting coils in wireless power transfer. In SUPERCONDUCTIVITY. JUN 2023, vol. 6. Dostupné na: <https://doi.org/10.1016/j.supcon.2023.100044>, Registrované v: WOS

2. [1.1] MUSSO, A. - ANGELI, G. - ASCADE, M. - BOCCHI, M. - PASINI, G. - RIBANI, P.L. - ROSSI, V. - BRESCHI, M. Comparing Electrodynamics Losses During Transport Current Cycles in Insulated and Non-Insulated HTS Coils. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3261843>, Registrované v: WOS

3. [1.1] SONG, H.H. - JIANG, Z.A. - SONG, W.J. Design Consideration and Conductor Selection of a Low AC Loss HTS REBCO Magnet Carrying High Currents at 20 K and 40 K. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3253072>, Registrované v: WOS

4. [1.1] VARGAS-LLANOS, C.R. - KRÄMER, J. - NOE, M. - GRILLI, F. Design and test of a setup for calorimetric measurements of AC transport losses in HTS racetrack coils. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN

0953-2048, APR 1 2023, vol. 36, no. 4. Dostupné na:

<https://doi.org/10.1088/1361-6668/acbba5>, Registrované v: WOS

5. [1.1] YANG, Z.X. - REN, L. - XU, Y. - SHI, J. - DUAN, P. An electromagnetic-thermal-mechanical analysis model for high temperature superconducting magnets. In *PHYSICA SCRIPTA*. ISSN 0031-8949, SEP 1 2023, vol. 98, no. 9.

Dostupné na: <https://doi.org/10.1088/1402-4896/acea44>, Registrované v: WOS

6. [1.1] ZHOU, Q.X. - CHEN, S. - GUO, Q. - SU, T. - WANG, J.Y. - ZHANG, Y.F. Analysis of AC Loss Characteristics of Stacked High-Temperature Superconducting Tapes. In *JOURNAL OF ELECTRONIC MATERIALS*. ISSN 0361-5235, FEB 2023, vol. 52, no. 2, SI, p. 1154-1168. Dostupné na:

<https://doi.org/10.1007/s11664-022-10078-y>, Registrované v: WOS

ADCA511

ŠOUC, Ján** - GÖMÖRY, Fedor - SOLOVYOV, Mykola - VOJENČIAK, Michal - KUJOVIČ, Tomáš - SEILER, Eugen - KOVÁČ, Ján - FROLEK, Lubomír - BEHULOVÁ, M. - JANOVEC, Jozef - CUNINKOVÁ, E. - MIŠÍK, J. - PEKARČÍKOVÁ, M. - SKARBA, M. CORC-like cable production and characterization of the solenoid made from it. In *Superconductor Science and Technology*, 2019, vol. 32, no. 035007. (2018: 2.489 - IF, Q2 - JCR, 0.879 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/aaf9ee>

Citácie:

1. [1.1] SHI, Y.Y. - MA, T. - DAI, S.T. - JIN, H. - QIN, J.G. Bending performance of the CORC cable with flexible interlocked stainless steel former. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acf903>, Registrované v: WOS

ADCA512

ŠOUC, Ján - GÖMÖRY, Fedor - VOJENČIAK, Michal - SOLOVYOV, Mykola - SEILER, Eugen - KOVÁČ, Ján - FROLEK, Lubomír. Superconducting HTS coil made from round cable cooled by liquid nitrogen flow. In *Superconductor Science and Technology*, 2017, vol. 30, no. 105014. (2016: 2.878 - IF, Q2 - JCR, 0.967 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/aa84ce>

Citácie:

1. [1.1] SHI, Y.Y. - MA, T. - DAI, S.T. - JIN, H. - QIN, J.G. Bending performance of the CORC cable with flexible interlocked stainless steel former. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acf903>, Registrované v: WOS

ADCA513

ŠOUC, Ján - SOLOVYOV, Mykola - GÖMÖRY, Fedor - CAMPS, J.P. - NAVAU, C. - SANCHEZ, A. A quasistatic magnetic cloak. In *New Journal of Physics*, 2013, vol. 15, 053019. (2012: 4.063 - IF, Q1 - JCR, 3.368 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/15/5/053019>

Citácie:

1. [1.1] RAZA, M. - RYBIN, O. - AHSAN, M. - ALONAZI, W.B. - RAMEEN, K. Controlling the thermal and electric fields in isotropic and anisotropic media. In *PHYSICA SCRIPTA*. ISSN 0031-8949, OCT 1 2023, vol. 98, no. 10. Dostupné na: <https://doi.org/10.1088/1402-4896/acf3ae>, Registrované v: WOS

ADCA514

ŠOUC, Ján - GÖMÖRY, Fedor - KOVÁČ, Ján - NAST, R. - JUNG, A. - VOJENČIAK, Michal - GRILLI, F. - GOLDACKER, W. Low AC loss cable produced from transposed striated CC tapes. In *Superconductor Science and Technology*, 2013, vol. 26, no. 075020. (2012: 2.758 - IF, Q1 - JCR, 1.535 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0953-

2048. Dostupné na: <https://doi.org/10.1088/0953-2048/26/7/075020>

Citácie:

- [1.1] AMEMIYA, N. - SOGABE, Y. - SHIGEMASA, M. - SOBUE, T. - HIRANO, T. - YAMANO, S. - SAKAMOTO, H. Magnetization Loss and Current Transport Characteristics of SCSC Cables With Metal Cores. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3251305>, Registrované v: WOS
- [1.1] CHOI, K. - HAN, J. - LEE, J.K. - KIM, W.S. Magnetization Loss Measurement of Twisted Stacked Tape Cable and Comparison With CORC. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3243537>, Registrované v: WOS
- [1.1] LEE, J.K. - HAN, J. - CHOI, K. - KIM, W.S. Experimental study on the correlation between measurement length and winding or twist pitch for magnetization loss occurring in CORC and TSTC. In *PROGRESS IN SUPERCONDUCTIVITY AND CRYOGENICS*. ISSN 1229-3008, DEC 2023, vol. 25, no. 4, p. 40-44. Dostupné na: <https://doi.org/10.9714/psac.2023.25.4.040>, Registrované v: WOS
- [1.1] PEKARČIKOVÁ, M. - FROLEK, L. - NECPAL, M. - CUNINKOVÁ, E. - SKARBA, M. - HULACOVÁ, S. - FERENCIK, F. - BOCÁKOVÁ, B. Optimization of REBCO Tapes through Division and Striation for Use in Superconducting Cables with Low AC Losses. In *MATERIALS*. DEC 2023, vol. 16, no. 23. Dostupné na: <https://doi.org/10.3390/ma16237333>, Registrované v: WOS
- [1.1] SHIGEMASA, M. - SOGABE, Y. - TAKAHASHI, A. - AMEMIYA, N. Impact of Number of Layers on Magnetization Losses of Spiral Copper-Plated Multifilament Coated Conductors. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3266420>, Registrované v: WOS

ADCA515

ŠPANKOVÁ, A. - ŠTRBÍK, Vladimír - DOBROČKA, Edmund - CHROMIK, Štefan - SOJKOVÁ, Michaela - ZHENG, D.N. - LI, J. Characterization of epitaxial LSMO thin films with high Curie temperature prepared on different substrates. In *Vacuum*, 2016, vol. 126, p. 24-28. (2015: 1.558 - IF, Q3 - JCR, 0.536 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0042-207X. Dostupné na: <https://doi.org/10.1016/j.vacuum.2016.01.009>

Citácie:

- [1.1] WAMAN, P.T. - BHATT, H. - RAO, R.K. - TYAGI, M. - GIRIJA, K.G. - KUMAR, S. - GONAL, M.R. - PADMA, N. Influence of substrate-induced strain on exchange bias effect in YSMO/LSMO heterostructures. In *BULLETIN OF MATERIALS SCIENCE*. ISSN 0250-4707, JUN 7 2023, vol. 46, no. 3. Dostupné na: <https://doi.org/10.1007/s12034-023-02951-1>, Registrované v: WOS

ADCA516

ŠPANKOVÁ, Marianna - VÁVRA, Ivo - CHROMIK, Štefan - GAŽI, Štefan - ŠTRBÍK, Vladimír - KUŠ, P. - MACHAJDÍK, Daniel - BEŇAČKA, Štefan. Improvement of the superconducting properties of YBCO thin films upon annealing of CeO₂/Al₂O₃ substrate. In *Thin Solid Films*, 2002, vol. 416, p. 254-259. ISSN 0040-6090.

Citácie:

- [1.1] POP, C. - BARUSCO, P. - VLAD, R. - QUERALTO, A. - GUPTA, K. - ALMOG, B. - SARAF, A. - DEUTSCHER, G. - GRANADOS, X. - PUIG, T. - OBRADORS, X. High critical current solution derived YBa₂Cu₃O₇ films grown on sapphire. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, MAY 1 2022, vol. 35, no. 5. Dostupné na: <https://doi.org/10.1088/1361-6668/ac5be9>, Registrované v: WOS

- ADCA517 ŠPANKOVÁ, Marianna - CHROMIK, Štefan - VÁVRA, Ivo - SEDLÁČKOVÁ, K. - LOBOTKA, Peter - LUCAS, S. - STANČEK, S. Epitaxial LSMO films grown on MgO single crystalline substrates. In Applied Surface Science, 2007, vol. 253, p. 7599-7603. (2006: 1.436 - IF, Q2 - JCR, 0.861 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0169-4332.
Citácie:
1. [1.1] *VUKMIROVIC, J. - JOKSOVIC, S. - PIPER, D. - NESTEROVIC, A. - NOVAKOVIC, M. - RAKIC, S. - MILANOVIC, M. - SRDIC, V.V. Epitaxial growth of LaMnO3 thin films on different single crystal substrates by polymer assisted deposition. In CERAMICS INTERNATIONAL. ISSN 0272-8842, JAN 15 2023, vol. 49, no. 2, p. 2366-2372. Dostupné na: <https://doi.org/10.1016/j.ceramint.2022.09.207>, Registrované v: WOS*
- ADCA518 ŠPANKOVÁ, Marianna - ROSOVÁ, Alica - DOBROČKA, Edmund - CHROMIK, Štefan - VÁVRA, Ivo - ŠTRBÍK, Vladimír - MACHAJDÍK, Daniel - KOBZEV, A.P. - SOJKOVÁ, Michaela. Structural properties of epitaxial La_{0.67}Sr_{0.33}MnO₃ films with increased temperature of metal-insulator transition grown on MgO substrates. In Thin Solid Films, 2015, vol. 583, p. 19-24. (2014: 1.759 - IF, Q2 - JCR, 0.725 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0040-6090. Dostupné na: <https://doi.org/10.1016/j.tsf.2015.03.039>
Citácie:
1. [1.1] *SURESH, S. - VINDHYA, P.S. - DEVIKA, S. - KAVITHA, V.T. Structural, optical and dielectric properties of nanostructured La_{1-x}Sr_xMnO₃ perovskites. In MATERIALS TODAY COMMUNICATIONS. AUG 2023, vol. 36. Dostupné na: <https://doi.org/10.1016/j.mtcomm.2023.106657>, Registrované v: WOS*
- ADCA519 ŠPANKOVÁ, Marianna** - SOJKOVÁ, Michaela - DOBROČKA, Edmund - HUTÁR, Peter - BODIK, Michal - MUNNIK, F. - HULMAN, Martin - CHROMIK, Štefan. Influence of precursor thin-film quality on the structural properties of large-area MoS₂ films grown by sulfurization of MoO₃ on c-sapphire. In Applied Surface Science, 2021, vol. 540, no. 14, 148240. (2020: 6.707 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2020.148240>
Citácie:
1. [1.1] *MONDAL, Anibrata - REDDY, Y. Ashok Kumar. Influence of oxygen partial pressure on the performance of MoO₃-based ultraviolet photodetectors. In SURFACES AND INTERFACES, 2023, vol. 41, no., pp. ISSN 2468-0230. Dostupné na: <https://doi.org/10.1016/j.surf.2023.103179>, Registrované v: WOS*
2. [1.1] *WANG, Ze-Miao - YAO, Cheng-Bao - WANG, Li-Yuan - WANG, Xue - JIANG, Cai-Hong - YIN, Hai-Tao. Charge Mobility and Strain Engineering in Two-Step MS-Grown MoS₂/Seed Layer Heterointerface and Photo-Excitation Mechanism. In ACS APPLIED MATERIALS & INTERFACES, 2023, vol. 15, no. 13, pp. 17364-17376. ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.3c00706>, Registrované v: WOS*
- ADCA520 ŠTRBÍK, Vladimír - REIFFERS, Marián - DOBROČKA, Edmund - ŠOLTÝS, Ján - ŠPANKOVÁ, Marianna - CHROMIK, Štefan. Epitaxial LSMO thin films with correlation of electrical and magnetic properties above 400 K. In Applied Surface Science, 2014, vol. 312, p. 212-215. (2013: 2.538 - IF, Q1 - JCR, 0.965 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2014.04.045>
Citácie:
1. [1.1] *JAMAN, A. - GOOSSENS, A.S. - VAN RIJN, J.J.L. - VAN DER ZEE, L. - BANERJEE, T. Morphology control of volatile resistive switching in La_{0.67}Sr_{0.33}MnO₃ thin films on LaAlO₃ (001). In FRONTIERS IN*

NANOTECHNOLOGY. FEB 28 2023, vol. 5. Dostupné na:

<https://doi.org/10.3389/fnano.2023.1121492>, Registrované v: WOS

2. [1.1] NAVARRO, H. - BASARAN, A.C. - AJEJAS, F. - FRATINO, L. - BAG, S. - WANG, T. - QIU, E. - ROUCO, V. - TENREIRO, I. - TORRES, F. - RIVERA-CALZADA, A. - SANTAMARIA, J. - ROZENBERG, M. - SCHULLER, I.K. *Light-Induced Decoupling of Electronic and Magnetic Properties in Manganites. In PHYSICAL REVIEW APPLIED. ISSN 2331-7019, APR 25 2023, vol. 19, no. 4.*

Dostupné na: <https://doi.org/10.1103/PhysRevApplied.19.044077>, Registrované v: WOS

3. [1.1] SONG, B.H. - OH, J.Y. - PARK, H.S. - KANG, B. *Effect of La_{1-x}Sr_xMnO₃ (x=0.2, 0.3, 0.5) buffer layer on the superconducting properties of GdBa₂Cu₃O_{7-δ}. In JOURNAL OF THE KOREAN PHYSICAL SOCIETY. ISSN 0374-4884, OCT 2022, vol. 81, no. 8, p. 770-778. Dostupné na: <https://doi.org/10.1007/s40042-022-00582-z>, Registrované v: WOS*

4. [1.1] WONG, Y.J. - LAU, L.N. - LIM, K.P. - HON, X.T. - DAUD, N.A.A. - KECHIK, M.M.A. - CHEN, S.K. - SHABDIN, M.K.B. - SHAARI, A.H. - MIRYALA, M. *Characterisations of La-Sr-Mn-O (LSMO) Thin Film Fabricated by RF Sputtering. In COATINGS. MAR 2023, vol. 13, no. 3. Dostupné na:*

<https://doi.org/10.3390/coatings13030541>, Registrované v: WOS

ADCA521

ŠUSTEK, M. - HORVÁTH, B. - VÁVRA, Ivo - GÁL, M. - DOBROČKA, Edmund - HRONEC, M. *Effects of structures of molybdenum catalysts on selectivity in gas-phase propylene oxidation. In Chinese Journal of Catalysis, 2015, vol. 36, p. 1900-1909. (2014: 1.964 - IF, Q2 - JCR, 0.518 - SJR, Q2 - SJR, karentované - CCC).*

(2015 - Current Contents). ISSN 0253-9837. Dostupné na:

[https://doi.org/10.1016/S1872-2067\(15\)60961-5](https://doi.org/10.1016/S1872-2067(15)60961-5)

Citácie:

1. [1.2] YANG, Qi - GAO, Xiujuan - SONG, Faen - WANG, Xiaoxing - ZHANG, Tao - XIONG, Pan - BAI, Yunxing - LIU, Xingchen - LIU, Xiaoyan - ZHANG, Junfeng - FU, Gang - TAN, Yisheng - HAN, Yizhuo - ZHANG, Qingde.

Unsaturated Penta-Coordinated Moinf_{5c}/insup₅+/_{sup} Sites Enabled Low-Temperature Oxidation of C-H Bonds in Ethers. In JACS Au, 2023-11-27, 3, 11, pp. 3141-3154. Dostupné na: <https://doi.org/10.1021/jacsau.3c00479>,

Registrované v: SCOPUS

ADCA522

ŠVANČÁREK, Peter - LENDVAYOVÁ, S. - GALUSEK, Dušan - HNATKO, Miroslav - VÁVRA, Ivo - WANG, X. *Abrasive wear resistance of SiO₂-doped polycrystalline alumina. In Wear : an international journal on the science and technology of friction, lubrication and wear, 2011, vol. 271, no. 5-6, p. 760-769.*

(2010: 1.635 - IF, Q1 - JCR, 1.475 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0043-1648. Dostupné na:

<https://doi.org/10.1016/j.wear.2011.03.016>

Citácie:

1. [1.1] LIU, J.C. - ZOU, X.P. - MENG, X.S. - KONG, X.Y. - PU, X.P. *Wear resistance of Sm₂O₃-doped high alumina-based grinding medium. In TRIBOLOGY INTERNATIONAL. ISSN 0301-679X, FEB 2023, vol. 178, B.*

Dostupné na: <https://doi.org/10.1016/j.triboint.2022.108037>, Registrované v: WOS

ADCA523

TALACKO, Marcel** - CHROMIK, Štefan - ŠPANKOVÁ, Marianna - ŠTRBÍK, Vladimír - GÁL, Norbert - MÍČUŠÍK, Matej - CAMERLINGO, C. - JUNG, G.

Aging of electron-written YBCO superconducting thin film structures. In Journal of Materials Science. Materials in Electronics, 2021, vol. 32, p. 28687-28694. (2020: 2.478 - IF, Q3 - JCR, 0.489 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0957-4522. Dostupné na: <https://doi.org/10.1007/s10854-021->

07243-0

Citácie:

1. [1.1] KARTHIKEYAN, M. - WATCHARAPASORN, A. - CHANDA, G. - CHAIPISAN, K. - LI, Z.J. Enhanced dual superconducting and ferromagnetic properties of YBCO film tuned with boron and oxygen partial pressures. In *JOURNAL OF ALLOYS AND COMPOUNDS*. ISSN 0925-8388, DEC 25 2023, vol. 969. Dostupné na: <https://doi.org/10.1016/j.jallcom.2023.172230>, Registrované v: WOS

ADCA524 ĎAPAJNA, Milan - PÍSEČNÝ, Pavol - LUPTÁK, Roman - HUŠEKOVÁ, Kristína - FRÖHLICH, Karol - HARMATHA, L. - HOOKEK, J.C. - ROOZEBOOM, F. - JERDEL, Matej. Application of Ru-based gate materials for CMOS technology. In *Materials science in semiconductor processing*, 2004, vol. 7, p. 271-276.

Citácie:

1. [1.1] HAN, J.W. - JIN, H.S. - KIM, Y.J. - HEO, J.S. - KIM, W.H. - AHN, J.H. - PARK, T.J. Advanced atomic layer deposition (ALD): controlling the reaction kinetics and nucleation of metal thin films using electric-potential-assisted ALD. In *JOURNAL OF MATERIALS CHEMISTRY C*. ISSN 2050-7526, MAR 16 2023, vol. 11, no. 11, p. 3743-3750. Dostupné na: <https://doi.org/10.1039/d2tc04755a>, Registrované v: WOS

ADCA525 ĎAPAJNA, Milan - HARMATHA, L. - HUŠEKOVÁ, Kristína. Measurement of generation parameters on Ru/HfO₂/Si MOS capacitor. In *Solid-State Electronics*, 2006, vol. 50, p. 177-180. (2005: 1.247 - IF, Q2 - JCR, 0.935 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0038-1101.

Citácie:

1. [1.1] MUKHERJEE, S. - BIZINDAVYI, J. - CLIMA, S. - POPOVICI, M.I. - PIAO, X.Y. - KATCKO, K. - CATHOOR, F. - YU, S.M. - AFANAS', EV, V.V. - VAN HOUDT, J. Capacitive Memory Window With Non-Destructive Read in Ferroelectric Capacitors. In *IEEE ELECTRON DEVICE LETTERS*. ISSN 0741-3106, JUL 2023, vol. 44, no. 7, p. 1092-1095. Dostupné na: <https://doi.org/10.1109/LED.2023.3278599>, Registrované v: WOS

ADCA526 ĎAPAJNA, Milan - ROSOVÁ, Alica - HUŠEKOVÁ, Kristína - ROOZEBOOM, F. - DOBROČKA, Edmund - FRÖHLICH, Karol. Evidence of hafnia oxygen vacancy defects in MOCVD grown Hf_xSi_{1-x}O_y ultrathin gate dielectrics gated with Ru electrode. In *Microelectronic Engineering : An International Journal of Semiconductor Manufacturing Technology*, 2007, vol. 84, p. 2366-2369. (2006: 1.398 - IF, Q1 - JCR, 0.966 - SJR, Q1 - SJR). ISSN 0167-9317.

Citácie:

1. [1.1] DEMENTEVA, E.V. - DEMENTEV, P.A. - YAGOVKINA, M.A. - ZAMORYANSKAYA, M.V. Determination of Type and Concentration of Traps in Nanoscale-Thick HfO₂ Films Applicable for Gate Dielectric Stacks. In *ACS APPLIED NANO MATERIALS*. SEP 14 2023, vol. 6, no. 18, p. 16212-16220. Dostupné na: <https://doi.org/10.1021/acsanm.3c02178>, Registrované v: WOS

ADCA527 ĎAPAJNA, Milan - ROSOVÁ, Alica - DOBROČKA, Edmund - ŠTRBÍK, Vladimír - GAŽI, Štefan - FRÖHLICH, Karol - BENKO, P. - HARMATHA, L. - MANKE, C. - BAUMANN, P.K. Work function thermal stability of RuO₂-rich Ru-Si-O p-channel metal-oxide-semiconductor field-effect transistor gate electrodes. In *Journal of Applied Physics*, 2008, vol. 103, art. no. 073702. (2007: 2.171 - IF, Q1 - JCR, 1.695 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents, SCOPUS). ISSN 0021-8979.

Citácie:

1. [1.1] CHERNIKOVA, A.G. - LEBEDINSKII, Y.Y. - KHAKIMOV, R.R. - MARKEEV, A.M. Chemical and electronic properties of interfaces between RuO₂

- and Hf0.5Zr0.5O2 studied by x-ray photoelectron spectroscopy. In APPLIED PHYSICS LETTERS. ISSN 0003-6951, JAN 9 2023, vol. 122, no. 2. Dostupné na: <https://doi.org/10.1063/5.0132056>, Registrované v: WOS*
- ADCA528 ŤAPAĽNA, Milan - PASKALEVA, A. - ATANASSOVA, E. - DOBROČKA, Edmund - HUŠEKOVÁ, Kristína - FRÖHLICH, Karol. Gate oxide thickness dependence of the leakage current mechanism in Ru/Ta2O5/SiON/Si structures. In Semiconductor Science and Technology, 2010, vol. 25, no. 075007. (2009: 1.253 - IF, Q2 - JCR, 0.865 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0268-1242. Dostupné na: <https://doi.org/10.1088/0268-1242/25/7/075007>
- Citácie:
1. [1.1] *SHARMA, U. - ASIF, M. - VARMA, V.M. - KUMAR, G. - MISHRA, S. - KUMAR, A. - THOMAS, R. Pulsed laser deposited Dy and Ta doped hafnium-zirconium oxide thin films for the high-k applications. In PHYSICA SCRIPTA. ISSN 0031-8949, MAY 1 2023, vol. 98, no. 5. Dostupné na: <https://doi.org/10.1088/1402-4896/accc5e>, Registrované v: WOS*
- ADCA529 ŤAPAĽNA, Milan - HUŠEKOVÁ, Kristína - ESPINOS, J.P. - HARMATHA, L. - FRÖHLICH, Karol. Precise determination of metal effective work function and fixed oxide charge in MOS capacitors with high- ϵ dielectric. In Materials science in semiconductor processing, 2006, vol. 9, p. 969-974. (2005: 0.884 - IF, Q2 - JCR, 0.554 - SJR, Q2 - SJR, karentované - CCC). (2006 - Current Contents).
- Citácie:
1. [1.1] *CHERNIKOVA, A.G. - LEBEDINSKII, Y.Y. - KHAKIMOV, R.R. - MARKEEV, A.M. Chemical and electronic properties of interfaces between RuO2 and Hf0.5Zr0.5O2 studied by x-ray photoelectron spectroscopy. In APPLIED PHYSICS LETTERS. ISSN 0003-6951, JAN 9 2023, vol. 122, no. 2. Dostupné na: <https://doi.org/10.1063/5.0132056>, Registrované v: WOS*
2. [1.1] *HAN, J.W. - JIN, H.S. - KIM, Y.J. - HEO, J.S. - KIM, W.H. - AHN, J.H. - PARK, T.J. Advanced atomic layer deposition (ALD): controlling the reaction kinetics and nucleation of metal thin films using electric-potential-assisted ALD. In JOURNAL OF MATERIALS CHEMISTRY C. ISSN 2050-7526, MAR 16 2023, vol. 11, no. 11, p. 3743-3750. Dostupné na: <https://doi.org/10.1039/d2tc04755a>, Registrované v: WOS*
- ADCA530 ŤAPAĽNA, Milan - ČIČO, Karol - KUZMÍK, Ján - POGANY, D. - POZZOVIVO, G. - STRASSER, G. - CARLIN, J.-F. - GRANDJEAN, N. - FRÖHLICH, Karol. Thermally induced voltage shift in capacitance-voltage characteristics and its relation to oxide/semiconductor interface states in Ni/Al2O3/InAlN/GaN heterostructures. In Semiconductor Science and Technology, 2009, vol. 24, 035008. (2008: 1.434 - IF, Q2 - JCR, 1.272 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0268-1242.
- Citácie:
1. [1.1] *REN, Z.J. - HUANG, H.C. - LEE, H. - CHAN, C. - ROBERTS, H.C. - WU, X.H. - WASEEM, A. - BHUIYAN, A.F.M.A.U. - ZHAO, H.P. - ZHU, W.J. - LI, X.L. Temperature dependent characteristics of β -Ga2O3 FinFETs by MacEtch. In APPLIED PHYSICS LETTERS. ISSN 0003-6951, JUL 24 2023, vol. 123, no. 4. Dostupné na: <https://doi.org/10.1063/5.0159420>, Registrované v: WOS*
- ADCA531 ŤAPAĽNA, Milan - KUZMÍK, Ján - ČIČO, Karol - POGANY, D. - POZZOVIVO, G. - STRASSER, G. - ABERMANN, S. - BERTAGNOLLI, E. - CARLIN, J.-F. - GRANDJEAN, N. - FRÖHLICH, Karol. Interface states and trapping effects in Al2O3- and ZrO2/InAlN/AlN/GaN metal-oxide-semiconductor heterostructures. In Japanese Journal of Applied Physics, 2009, vol. 48, no. 090201. (2008: 1.309 - IF, Q3 - JCR, 0.764 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents).

ISSN 0021-4922.

Citácie:

1. [1.1] *QIU, S.Y. - GONG, J.R. - ZHOU, J. - NG, T.K. - SINGH, R. - SHEIKHI, M. - OOI, B.S. - MA, Z.Q. Interfacial band parameters of ultrathin ALD-ZrO₂ on Ga-polar GaN through XPS measurements. In AIP ADVANCES. MAY 1 2023, vol. 13, no. 5. Dostupné na: <https://doi.org/10.1063/5.0145286>, Registrované v: WOS*

ADCA532 ĽAPAJNA, Milan - STOKLAS, Roman - GREGUŠOVÁ, Dagmar - GUCMANN, Filip - HUŠEKOVÁ, Kristína - HAŠČÍK, Štefan - FRÖHLICH, Karol - TÓTH, L. - PÉCZ, B. - BRUNNER, F. - KUZMÍK, Ján. Investigation of 'surface donors' in Al₂O₃/AlGa_{0.3}N/GaN metal-oxide-semiconductor heterostructures: Correlation of electrical, structural, and chemical properties. In Applied Surface Science, 2017, vol. 426, p. 656-661. (2016: 3.387 - IF, Q1 - JCR, 0.958 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2017.07.195>

Citácie:

1. [1.1] *BRIVIO, F. - RAPPE, A.M. - KRONIK, L. - RITTER, D. Two-dimensional carrier gas at a polar interface without surface band gap states: A first principles perspective. In APPLIED PHYSICS LETTERS. ISSN 0003-6951, JUL 10 2023, vol. 123, no. 2. Dostupné na: <https://doi.org/10.1063/5.0149212>, Registrované v: WOS*

2. [1.2] *FERNANDES PAES PINTO ROCHA, P. - VAUCHE, L. - MOHAMAD, B. - VANDENDAELE, W. - MARTINEZ, E. - VEILLEROT, M. - SPELTA, T. - ROCHAT, N. - GWOZIECKI, R. - SALEM, B. - SOUSA, V. Impact of post-deposition anneal on ALD Al₂O₃/In_{0.3}Ga_{0.7}N/etched GaN interface for gate-first MOSc-HEMT. In Power Electronic Devices and Components, 2023-03-01, 4, pp. Dostupné na: <https://doi.org/10.1016/j.pedc.2023.100033>, Registrované v: SCOPUS*

ADCA533 ĽAPAJNA, Milan - HILT, O. - BAHAT-TREIDEL, E. - WÜRFL, H.-J. - KUZMÍK, Ján. Gate reliability investigation in normally-off p-type-gan cap/AlGa_{0.3}N/GaN HEMTs under forward bias stress. In IEEE Electron Device Letters, 2016, vol. 37, p. 385 - 388. (2015: 2.528 - IF, Q1 - JCR, 1.607 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0741-3106. Dostupné na: <https://doi.org/10.1109/LED.2016.2535133>

Citácie:

1. [1.1] *BABY, R. - RESHMA, K. - CHANDRASEKAR, H. - MURALIDHARAN, R. - RAGHAVAN, S. - NATH, D.N. Study of TaN-Gated p-GaN E-Mode HEMT. In IEEE TRANSACTIONS ON ELECTRON DEVICES. ISSN 0018-9383, APR 2023, vol. 70, no. 4, p. 1607-1612. Dostupné na: <https://doi.org/10.1109/TED.2023.3241132>, Registrované v: WOS*

2. [1.1] *CHAO, X. - TANG, C.K. - TAN, J.J. - WANG, C. - SUN, Q.Q. - ZHANG, D.W. Investigation of the Progressive Gate Breakdown Behaviors in p-GaN Gate HEMTs. In IEEE TRANSACTIONS ON ELECTRON DEVICES. ISSN 0018-9383, JAN 2023, vol. 70, no. 1, p. 25-30. Dostupné na: <https://doi.org/10.1109/TED.2022.3220498>, Registrované v: WOS*

3. [1.1] *GUNAYDIN, Y. - JAHDI, S. - YU, R. - YUAN, X.B. - ALATISE, O. - GONZALEZ, J.O. Electrothermal power cycling of GaN and SiC cascode devices. In MICROELECTRONICS RELIABILITY. ISSN 0026-2714, NOV 2023, vol. 150. Dostupné na: <https://doi.org/10.1016/j.microrel.2023.115117>, Registrované v: WOS*

4. [1.1] *HUANG, K.N. - LIN, Y.C. - WU, C.Y. - LEE, J.H. - HSU, C.C. - YAO, J.N. - CHIEN, C.H. - CHANG, E.Y. Study of p-GaN Gate MOS-HEMT with Al₂O₃*

- Insulator for High-Power Applications. In JOURNAL OF ELECTRONIC MATERIALS. ISSN 0361-5235, APR 2023, vol. 52, no. 4, p. 2865-2870. Dostupné na: <https://doi.org/10.1007/s11664-023-10252-w>, Registrované v: WOS*
5. [1.1] JIA, M. - HOU, B. - YANG, L. - JIA, F.C. - NIU, X.R. - DU, J.L. - CHANG, Q.Y. - ZHANG, M. - WU, M. - ZHANG, X.C. - LU, H. - MA, X.H. - HAO, Y. *High VTH and Improved Gate Reliability in P-GaN Gate HEMTs With Oxidation Interlayer. In IEEE ELECTRON DEVICE LETTERS. ISSN 0741-3106, SEP 2023, vol. 44, no. 9, p. 1404-1407. Dostupné na: <https://doi.org/10.1109/LED.2023.3295064>, Registrované v: WOS*
6. [1.1] KOZAK, J.P. - ZHANG, R.Z. - PORTER, M. - SONG, Q.H. - LIU, J.C. - WANG, B.X. - WANG, R. - SAITO, W. - ZHANG, Y.H. *Stability, Reliability, and Robustness of GaN Power Devices: A Review. In IEEE TRANSACTIONS ON POWER ELECTRONICS. ISSN 0885-8993, JUL 2023, vol. 38, no. 7, p. 8442-8471. Dostupné na: <https://doi.org/10.1109/TPEL.2023.3266365>, Registrované v: WOS*
7. [1.1] PAN, S.J. - ZHANG, Y.M. - FENG, S.W. - LI, X. - BAI, K. - LU, X.Z. - ZHANG, M. - ZHOU, Z. *Evaluation of Trapping Behaviors in Forward Biased Schottky-Type p-GaN Gate HEMTs. In IEEE TRANSACTIONS ON ELECTRON DEVICES. ISSN 0018-9383, JUL 2023, vol. 70, no. 7, p. 3475-3482. Dostupné na: <https://doi.org/10.1109/TED.2023.3278614>, Registrované v: WOS*
8. [1.1] WANG, B.X. - ZHANG, R.Z. - WANG, H.Y. - HE, Q.B. - SONG, Q.H. - LI, Q. - UDREA, F. - ZHANG, Y.H. *Dynamic Gate Breakdown of p-Gate GaN HEMTs in Inductive Power Switching. In IEEE ELECTRON DEVICE LETTERS. ISSN 0741-3106, FEB 2023, vol. 44, no. 2, p. 217-220. Dostupné na: <https://doi.org/10.1109/LED.2022.3227091>, Registrované v: WOS*
9. [1.2] BANU, N. - MONDAL, C. *Reduction of Current-Collapsing in Small Gate to Drain Length AlGaIn/GaN Super Hetero-Junction HEMT for High-Frequency Applications. In Lecture Notes in Networks and Systems, 2023-01-01, 690 LNNS, pp. 423-431. ISSN 23673370. Dostupné na: https://doi.org/10.1007/978-981-99-2680-0_37, Registrované v: SCOPUS*
10. [1.2] MENEGHINI, Matteo - CHOWDHURY, Srabanti - DERLUYN, Joff - MEDJDOUB, Farid - JI, Dong - CHUN, Jaeyi - KABOUCHE, Riad - DE SANTI, Carlo - ZANONI, Enrico - MENEGHESSO, Gaudenzio. *GaN-Based Lateral and Vertical Devices. In Springer Handbooks, 2023-01-01, pp. 525-578. ISSN 25228692. Dostupné na: https://doi.org/10.1007/978-3-030-79827-7_15, Registrované v: SCOPUS*
11. [1.2] MENEGHINI, Matteo - CHOWDHURY, Srabanti - DERLUYN, Joff - MEDJDOUB, Farid - JI, Dong - CHUN, Jaeyi - KABOUCHE, Riad - DE SANTI, Carlo - ZANONI, Enrico - MENEGHESSO, Gaudenzio. *GaN-Based Lateral and Vertical Devices. In Springer Handbooks, 2023-01-01, pp. 525-578. ISSN 25228692. Dostupné na: https://doi.org/10.1007/978-3-030-79827-7_15, Registrované v: SCOPUS*
12. [1.2] WANG, Bixuan - ZHANG, Ruizhe - SONG, Qihao - LI, Qiang - ZHANG, Yuhao. *Gate Lifetime of P-Gate GaN HEMT under DC and Switching Overvoltage Stress. In 2023 IEEE 10th Workshop on Wide Bandgap Power Devices and Applications, WiPDA 2023, 2023-01-01, pp. Dostupné na: <https://doi.org/10.1109/WiPDA58524.2023.10382229>, Registrované v: SCOPUS*
13. [1.2] WANG, Bixuan - ZHANG, Ruizhe - WANG, Hengyu - HE, Quanbo - SONG, Qihao - LI, Qiang - UDREA, Florin - ZHANG, Yuhao. *Gate Lifetime of P-Gate GaN HEMT in Inductive Power Switching. In Proceedings of the International Symposium on Power Semiconductor Devices and ICs, 2023-01-01, 2023-May, pp. 20-23. ISSN 10636854. Dostupné na:*

<https://doi.org/10.1109/ISPSD57135.2023.10147610>, Registrované v: SCOPUS 14. [1.2] WANG, Huan - YIN, Yulian - JI, Fengwei - DU, Jiahong - LI, Haoran - ZHAO, Changhui - LI, Baikui - HU, Cungang - CAO, Wenping - TANG, Xi - YANG, Shu. Enhanced gate breakdown and electroluminescence in p-GaN gate HEMTs under pulsed switching conditions. In Proceedings of the International Symposium on Power Semiconductor Devices and ICs, 2023-01-01, 2023-May, pp. 91-94. ISSN 10636854. Dostupné na:

<https://doi.org/10.1109/ISPSD57135.2023.10147654>, Registrované v: SCOPUS 15. [1.2] ZHAO, Pengfei - ZHA, Zhiwei - XIAO, Qingzhong - CHEN, Jian - ZHU, Jianyuan - FU, Zhiwei - CHEN, Yiqiang. Degradation Behavior and Mechanism of E-mode Cascode GaN HEMTs under Hydrogen Environment. In 2023 International Conference on Power Energy Systems and Applications, ICoPESA 2023, 2023-01-01, pp. 728-732. Dostupné na:

<https://doi.org/10.1109/ICoPESA56898.2023.10140342>, Registrované v: SCOPUS

ADCA534 ĎAPAJNA, Milan - JURKOVIČ, Michal - VALIK, L. - HAŠČÍK, Štefan - GREGUŠOVÁ, Dagmar - BRUNNER, F. - CHO, E.-M. - KUZMÍK, Ján. Bulk and interface trapping in the gate dielectric of GaN based metal-oxide-semiconductor high-electron mobility transistors. In Applied Physics Letters, 2013, vol. 102, no. 243509. (2012: 3.794 - IF, Q1 - JCR, 2.570 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/1.4811754>

Citácie:

1. [1.1] CHEN, Y.L. - ZHU, Q. - ZHU, J.J. - MI, M.H. - ZHANG, M. - ZHOU, Y.W. - ZHAO, Z.Y. - MA, X.H. - HAO, Y. Degradation induced by holes in Si₃N₄/AlGa_N/Ga_N MIS HEMTs under off-state stress with UV light. In SCIENCE CHINA-INFORMATION SCIENCES. ISSN 1674-733X, FEB 2023, vol. 66, no. 2. Dostupné na: <https://doi.org/10.1007/s11432-021-3377-2>, Registrované v: WOS

2. [1.1] MANSUROV, V. - MALIN, T. - GOLYASHOV, V. - MILAKHIN, D. - ZHURAVLEV, K. Investigation of the effect of different types of SiN layers and cap-GaN on the surface electronic states of AlGa_N/Ga_N heterostructures with 2DEG using X-ray and UV photoelectron spectroscopy. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, DEC 15 2023, vol. 640. Dostupné na: <https://doi.org/10.1016/j.apsusc.2023.158313>, Registrované v: WOS

3. [1.1] ZHANG, H. - ZHENG, X.F. - WANG, X.H. - ZHU, T. - WANG, Y.Z. - MA, X.H. - HAO, Y. Characterization of different trap states in AlGa_N/Ga_N MIS-HEMTs under high reverse gate stress. In MICRO AND NANOSTRUCTURES. JUN 2023, vol. 178. Dostupné na: <https://doi.org/10.1016/j.micrna.2023.207579>, Registrované v: WOS

ADCA535 ĎAPAJNA, Milan - JURKOVIČ, Michal - VÁLIK, Lukáš - HAŠČÍK, Štefan - GREGUŠOVÁ, Dagmar - BRUNNER, F. - CHO, E.-M. - HASHIZUME, T. - KUZMÍK, Ján. Impact of GaN cap on charges in Al₂O₃/(Ga_N)/AlGa_N/Ga_N metal-oxide-semiconductor heterostructures analyzed by means of capacitance measurements and simulations. In Journal of Applied Physics, 2014, vol. 116, 104501. (2013: 2.185 - IF, Q2 - JCR, 1.165 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/1.4894703>

Citácie:

1. [1.1] CONG, Z.Z. - LU, X.L. - HE, Y.L. - CAI, M.S. - WANG, X. - WANG, Y. - MA, X.H. - HAO, Y. Ferroelectric passivation layer derived high performance AlGa_N/Ga_N heterojunction field-effect transistor. In APPLIED PHYSICS LETTERS. ISSN 0003-6951, NOV 20 2023, vol. 123, no. 21. Dostupné na:

- ADCA536 <https://doi.org/10.1063/5.0162453>, *Registrované v: WOS*
ĽAPAJNA, Milan - VÁLIK, Lukáš - GUCMANN, Filip - GREGUŠOVÁ, Dagmar - FRÖHLICH, Karol - HASČÍK, Štefan - DOBROČKA, Edmund - TÓTH, L. - PÉCZ, B. - KUZMÍK, Ján. Low-temperature atomic layer deposition-grown Al₂O₃ gate dielectric for GaN/AlGa_N/GaN MOS HEMTs: Impact of deposition conditions on interface state density. In *Journal of Vacuum Science and Technology B. Microelectronics and Nanometer Structures*, 2017, vol. 35, no. 01A107. (2016: 1.573 - IF, Q3 - JCR, 0.595 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1071-1023. Dostupné na: <https://doi.org/10.1116/1.4972870>
- Citácie:*
1. [1.1] *CHANG, C.Y. - CHIN, Y.L. - HUANG, X.H. Interface Engineering for High-Performance and Stable Hybrid Perovskite Shadow-Effect Energy Generator. In CHEMISTRY OF MATERIALS. ISSN 0897-4756, JUL 25 2023, vol. 35, no. 18, p. 7430-7441. Dostupné na: <https://doi.org/10.1021/acs.chemmater.3c00421>, Registrované v: WOS*
2. [1.1] *PAUL, P. - SCHMITT, P. - SIGURJÓNSDÓTTIR, V.V. - HANEMANN, K. - FELDE, N. - SCHRÖDER, S. - OTTO, F. - GRUENEWALD, M. - FRITZ, T. - RODDATIS, V. - TüNNERMANN, A. - SZEGHALMI, A. Atomically Thin Metal-Dielectric Heterostructures by Atomic Layer Deposition. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, MAY 10 2023, vol. 15, no. 18, p. 22626-22636. Dostupné na: <https://doi.org/10.1021/acsami.2c22590>, Registrované v: WOS*
- ADCA537 ĽAPAJNA, Milan - HILT, O. - BAHAT-TREIDEL, E. - WÜRFL, H.-J. - KUZMÍK, Ján. Investigation of gate-diode degradation in normally-off p-GaN/AlGa_N/GaN high-electron-mobility transistors. In *Applied Physics Letters*, 2015, vol. 107, 193506. (2014: 3.302 - IF, Q1 - JCR, 1.861 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/1.4935223>
- Citácie:*
1. [1.1] *CHAO, X. - TANG, C.K. - TAN, J.J. - CHEN, L. - ZHU, H. - SUN, Q.Q. - ZHANG, D.W. Analysis of VTH Degradation and Recovery Behaviors of p-GaN Gate HEMTs Under Forward Gate Bias. In IEEE TRANSACTIONS ON ELECTRON DEVICES. ISSN 0018-9383, JUN 2023, vol. 70, no. 6, SI, p. 2970-2974. Dostupné na: <https://doi.org/10.1109/TED.2023.3263819>, Registrované v: WOS*
2. [1.1] *WANG, X.H. - ZHENG, X.F. - WANG, B.C. - WANG, Y.Z. - YUE, S.Z. - ZHU, T. - MAO, W. - ZHANG, H. - MA, X.H. - HAO, Y. Investigation on the threshold voltage instability mechanism of p-GaN gate AlGa_N/GaN HEMTs under high-temperature reverse bias stress. In APPLIED PHYSICS LETTERS. ISSN 0003-6951, FEB 27 2023, vol. 122, no. 9. Dostupné na: <https://doi.org/10.1063/5.0132187>, Registrované v: WOS*
- ADCA538 ĽAPAJNA, Milan - KUZMÍK, Ján. Control of threshold voltage in GaN based metal–oxide–semiconductor high-electron mobility transistors towards the normally-off operation. In *Japanese Journal of Applied Physics*, 2013, vol. 52, 08JN08. (2012: 1.067 - IF, Q3 - JCR, 0.503 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0021-4922. Dostupné na: <https://doi.org/10.7567/JJAP.52.08JN08>
- Citácie:*
1. [1.2] *MENEGHINI, Matteo - CHOWDHURY, Srabanti - DERLUYN, Joff - MEDJDOUB, Farid - JI, Dong - CHUN, Jaeyi - KABOUCHE, Riad - DE SANTI, Carlo - ZANONI, Enrico - MENEGHESSO, Gaudenzio. GaN-Based Lateral and Vertical Devices. In Springer Handbooks, 2023-01-01, pp. 525-578. ISSN 25228692. Dostupné na: https://doi.org/10.1007/978-3-030-79827-7_15,*

Registrované v: SCOPUS

ADCA539 ĎAPAJNA, Milan - KILLAT, N. - PALANKOVSKI, V. - GREGUŠOVÁ, Dagmar - ČIČO, Karol - CARLIN, J.-F. - GRANDJEAN, N. - KUBALL, M. - KUZMÍK, Ján. Hot-electron-related degradation in InAlN/GaN high-electron-mobility transistors. In IEEE Transactions on Electron Devices, 2014, vol. 61, p. 2793-2801. (2013: 2.358 - IF, Q1 - JCR, 1.411 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0018-9383. Dostupné na: <https://doi.org/10.1109/TED.2014.2332235>

Citácie:

1. [1.1] SUN, L.C. - LIN, S.K. - YEH, Y.H. - TU, Y.F. - TAN, Y.F. - ZHOU, K.J. - TSAI, T.M. - CHANG, T.C. Investigation Between Recover Behavior and Defect With Variation of Light Source in AlGaIn/GaN HEMTs After Hot-Carrier Stress. In IEEE ELECTRON DEVICE LETTERS. ISSN 0741-3106, APR 2023, vol. 44, no. 4, p. 586-589. Dostupné na: <https://doi.org/10.1109/LED.2023.3250430>,

Registrované v: WOS

ADCA540 ĎAPAJNA, Milan - KUZMÍK, Ján. A comprehensive analytical model for threshold voltage calculation in GaN based metal-oxide-semiconductor high-electron-mobility transistors. In Applied Physics Letters, 2012, vol. 100, 113509. (2011: 3.844 - IF, Q1 - JCR, 2.814 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/1.3694768>

Citácie:

1. [1.1] BENJELLOUN, M. - ZAIDAN, Z.H. - SOLTANI, A. - GOGNEAU, N. - MORRIS, D. - HARMAND, J.C. - MAHER, H.M. Design, Simulation and Optimization of an Enhanced Vertical GaN Nanowire Transistor on Silicon Substrate for Power Electronic Applications. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 40249-40257. Dostupné na: <https://doi.org/10.1109/ACCESS.2023.3248630>, *Registrované v: WOS*

2. [1.1] LIU, A.C. - TU, P.T. - CHEN, H.C. - LAI, Y.Y. - YEH, P.C. - KUO, H.C. Improving Performance and Breakdown Voltage in Normally-Off GaN Recessed Gate MIS-HEMTs Using Atomic Layer Etching and Gate Field Plate for High-Power Device Applications. In MICROMACHINES. AUG 2023, vol. 14, no. 8. Dostupné na: <https://doi.org/10.3390/mi14081582>, *Registrované v: WOS*

3. [1.1] QIANG, L. Modeling for ammonia gas concentration detection of GaN-based sensors. In MODERN PHYSICS LETTERS B. ISSN 0217-9849, SEP 20 2023, vol. 37, no. 26. Dostupné na: <https://doi.org/10.1142/S0217984923500926>, *Registrované v: WOS*

4. [1.1] YAMAMOTO, A. - BARATOV, A. - ASUBAR, J.T. - KUZUHARA, M. MOVPE growth of AlGaIn on RIE-treated GaN surfaces and its application to AlGaIn/GaN electron devices. In 2023 IEEE INTERNATIONAL MEETING FOR FUTURE OF ELECTRON DEVICES, KANSAI, IMFEDK. ISSN 2836-9955, 2023. Dostupné na: <https://doi.org/10.1109/IMFEDK60983.2023.10366345>, *Registrované v: WOS*

5. [1.1] YUN, B.X. - XU, S.R. - TAO, H.C. - WANG, X.H. - LIU, X. - WU, Q.L. - ZHANG, J.C. - HAO, Y. Comparative study of unintentionally doped and Si-doped multi-channel AlGaIn/GaN heterostructures. In MATERIALS LETTERS. ISSN 0167-577X, SEP 15 2023, vol. 347. Dostupné na: <https://doi.org/10.1016/j.matlet.2023.134581>, *Registrované v: WOS*

6. [1.1] ZHANG, B. - WANG, J.Y. - LI, M.J. - HUANG, C.Y. - HE, J.Y. - WANG, X. - WANG, C. - WANG, H.Y. - MO, J.H. - WANG, M.J. - WU, W.A. Improved performance of enhancement-mode GaN MIS-FET based on a self-terminating gate recess etching technique with in situ NH₃ pre-treatment. In JAPANESE JOURNAL OF APPLIED PHYSICS. ISSN 0021-4922, JAN 1 2023, vol. 62, no. 1.

Dostupné na: <https://doi.org/10.35848/1347-4065/aca3e3>, Registrované v: WOS
 ĽAPAJNA, Milan**. Current understanding of bias-temperature instabilities in GaN MIS transistors for power switching applications. In *Crystals*, 2020, vol. 10, no. 1153. (2019: 2.404 - IF, Q2 - JCR, 0.594 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2073-4352. Dostupné na: <https://doi.org/10.3390/cryst10121153> (VEGA 2/0109/17)

Citácie:

1. [1.1] BENJELLOUN, M. - ZAIDAN, Z.H. - SOLTANI, A. - GOGNEAU, N. - MORRIS, D. - HARMAND, J.C. - MAHER, H.M. *Design, Simulation and Optimization of an Enhanced Vertical GaN Nanowire Transistor on Silicon Substrate for Power Electronic Applications. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 40249-40257. Dostupné na: <https://doi.org/10.1109/ACCESS.2023.3248630>, Registrované v: WOS*
2. [1.1] IROKAWA, Y. - MITSUISHI, K. - IZUMI, T. - NISHII, J. - NABATAME, T. - KOIDE, Y. *Gate-Bias-Induced Threshold Voltage Shifts in GaN FATFETs. In ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY. ISSN 2162-8769, MAY 1 2023, vol. 12, no. 5. Dostupné na: <https://doi.org/10.1149/2162-8777/acd1b4>, Registrované v: WOS*
3. [1.1] KAMMEUGNE, R.K. - THEODOROU, C. - LEROUX, C. - VAUCHE, L. - MESCOT, X. - GWOZIECKI, R. - BECU, S. - CHARLES, M. - BANO, E. - GHIBAUDO, G. *New insights into low frequency noise (LFN) sources analysis in GaN/Si MIS-HEMTs. In SOLID-STATE ELECTRONICS. ISSN 0038-1101, FEB 2023, vol. 200. Dostupné na: <https://doi.org/10.1016/j.sse.2022.108555>, Registrované v: WOS*
4. [1.1] KUO, H.M. - CHANG, T.C. - CHANG, K.C. - LIN, H.N. - KUO, T.T. - YEH, C.H. - LEE, Y.H. - LIN, J.H. - TSAI, X.Y. - HUANG, J.W. - SZE, S. *Investigation of Threshold Voltage and Drain Current Degradations in Si₃N₄/AlGaIn/GaN MIS-HEMTs Under X-Ray Irradiation. In IEEE TRANSACTIONS ON ELECTRON DEVICES. ISSN 0018-9383, MAY 2023, vol. 70, no. 5, p. 2216-2221. Dostupné na: <https://doi.org/10.1109/TED.2023.3255829>, Registrované v: WOS*
5. [1.1] NELSON, M. - BARZEGAR, V. - LAFLAMME, S. - HU, C. - DOWNEY, A.R.J. - BAKOS, J.D. - THELEN, A. - DODSON, J. *Multi-step ahead state estimation with hybrid algorithm for high-rate dynamic systems. In MECHANICAL SYSTEMS AND SIGNAL PROCESSING. ISSN 0888-3270, JAN 1 2023, vol. 182. Dostupné na: <https://doi.org/10.1016/j.ymsp.2022.109536>, Registrované v: WOS*
6. [1.1] NGUYEN, D.D. - DENG, Y.C. - SUZUKI, T.K. *Low-frequency noise in AlTiO/AlGaIn/GaN metal-insulator-semiconductor field-effect transistors with non-gate-recessed or partially-gate-recessed structures. In SEMICONDUCTOR SCIENCE AND TECHNOLOGY. ISSN 0268-1242, SEP 1 2023, vol. 38, no. 9. Dostupné na: <https://doi.org/10.1088/1361-6641/acec64>, Registrované v: WOS*
7. [1.1] SUN, Q. - LIAO, F.B. - XIE, Y.F. - LI, J.L. - LIAN, M.X. - ZHANG, X.C. - ZHANG, K.M. - ZOU, B.Z. - YIN, Y. *2.2 kV breakdown voltage GaN double-channel Schottky barrier diode with one grading-AlGaIn barrier and polarization junction. In MICRO AND NANOSTRUCTURES. JUN 2023, vol. 178. Dostupné na: <https://doi.org/10.1016/j.micrna.2023.207562>, Registrované v: WOS*
8. [1.2] ZHAO, Xiaoliang - SHU, Penghuai - LI, Wei - WANG, Zhenyu - ZHANG, Xiaobin. *The Embedded Cooling Silicon 3D Stacking Thermal Test Vehicle. In InterSociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems, ITherm, 2023-01-01, 2023-May, pp. ISSN 19363958. Dostupné na: <https://doi.org/10.1109/ITherm55368.2023.10177502>, Registrované*

v: *SCOPUS*

ADCA542 TATARKO, Peter - KAŠIAROVÁ, Monika - CHLUP, Zdeněk - DUSZA, Ján - ŠAJGALÍK, Pavol - VÁVRA, Ivo. Influence of rare-earth oxide additives and SiC nanoparticles on the wear behaviour of Si₃N₄-based composites at temperatures up to 900 C. In *Wear : an international journal on the science and technology of friction, lubrication and wear*, 2013, vol. 300, p. 155-162. (2012: 1.262 - IF, Q2 - JCR, 1.345 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0043-1648. Dostupné na: <https://doi.org/10.1016/j.wear.2013.01.030>

Citácie:

1. [1.1] MAZUMDER, S. - METSELAAR, H.S.C. - SUKIMAN, N.L. - ZULKIFLI, N.W.M. Friction and wear behavior of fluoride added Si₃N₄-SiC ceramic composites at elevated temperature. In *CERAMICS INTERNATIONAL*. ISSN 0272-8842, APR 15 2023, vol. 49, no. 8, p. 12787-12795. Dostupné na: <https://doi.org/10.1016/j.ceramint.2022.12.144>, Registrované v: WOS

2. [1.1] WANG, H.J. - LIN, H.T. - ZHOU, F. - CHU, R. - GUO, K.K. - WU, H.D. - LIU, Y. Friction and wear performances of Si₃N₄ ceramic matrix composites: A review from the perspectives of doped phase, layered structure design, and laser surface texturing. In *INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY*. ISSN 1546-542X, SEP 2023, vol. 20, no. 5, p. 2661-2680. Dostupné na: <https://doi.org/10.1111/ijac.14415>, Registrované v: WOS

3. [1.1] XING, Y.Q. - ZHU, M.Y. - WU, Z. - LI, Z. - BAI, S.W. - ZHANG, K.D. - LIU, L. High-temperature tribological properties of Si₃N₄/TiC ceramic with bionic surface textures and DLC coatings. In *TRIBOLOGY INTERNATIONAL*. ISSN 0301-679X, AUG 2023, vol. 186. Dostupné na: <https://doi.org/10.1016/j.triboint.2023.108648>, Registrované v: WOS

ADCA543 TERZIEVA, S. - VOJENČIAK, Michal - PARDO, Enric - GRILLI, F. - DRECHSLER, A. - KLING, A. - KUDYMOW, A. - GÖMÖRY, Fedor - GOLDACKER, W. Transport and magnetization ac losses of ROEBEL assembled coated conductor cables: measurements and calculations. In *Superconductor Science and Technology*, 2010, vol. 23, 014023. (2009: 2.694 - IF, 1.256 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/23/1/014023>

Citácie:

1. [1.1] SONG, W.J. - BADCOCK, R.A. - LONG, N.J. - JIANG, Z.A. AC Loss in REBCO Coil Windings Wound With Various Cables: Effect of Current Distribution Among the Cable Strands. In *IEEE ACCESS*. ISSN 2169-3536, 2023, vol. 11, p. 102082-102091. Dostupné na: <https://doi.org/10.1109/ACCESS.2023.3315731>, Registrované v: WOS

2. [1.1] WU, Y. - SONG, W.J. - WIMBUSH, S.C. - FANG, J. - BADCOCK, R.A. - LONG, N.J. - JIANG, Z.A. Combined Impact of Asymmetric Critical Current and Flux Diverters on AC Loss of a 6.5 MVA/25 kV HTS Traction Transformer. In *IEEE TRANSACTIONS ON TRANSPORTATION ELECTRIFICATION*. ISSN 2332-7782, MAR 2023, vol. 9, no. 1, p. 1590-1604. Dostupné na: <https://doi.org/10.1109/TTE.2022.3194027>, Registrované v: WOS

ADCA544 TERZIEVA, S. - VOJENČIAK, Michal - GRILLI, F. - NAST, R. - ŠOUC, Ján - GOLDACKER, W. - JUNG, A. - KUDYMOW, A. - KLING, A. Investigation of the effect of striated strands on the AC losses of 2G Roebel cables. In *Superconductor Science and Technology*, 2011, vol. 24, 045001. (2010: 2.402 - IF, Q1 - JCR, 1.480 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, SCOPUS). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/24/4/045001>

Citácie:

1. [1.1] CHOI, K. - HAN, J. - LEE, J.K. - KIM, W.S. Magnetization Loss

- Measurement of Twisted Stacked Tape Cable and Comparison With CORC. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3243537>, Registrované v: WOS*
2. [1.1] LAN, T. - LIAO, H.P. - IFTIKHAR, M.H. - YUAN, W.J. - COLE, A. - ABDOUH, R. - ZHANG, M. Multifilament HTS Cables to Reduce AC Loss: Proof-of-Concept Experiments and Simulation. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, SEP 2023, vol. 33, no. 6. Dostupné na: <https://doi.org/10.1109/TASC.2023.3265436>, Registrované v: WOS
3. [1.1] MATSUMOTO, A. - TACHIKI, M. - OOI, S. Development of YBCO Patterned Multi-Filamentary Film Using Photolithography Method. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3244515>, Registrované v: WOS
4. [1.1] PEKARCÍKOVÁ, M. - FROLEK, L. - NECPAL, M. - CUNINKOVÁ, E. - SKARBA, M. - HULACOVÁ, S. - FERENCIK, F. - BOCÁKOVÁ, B. Optimization of REBCO Tapes through Division and Striation for Use in Superconducting Cables with Low AC Losses. In MATERIALS. DEC 2023, vol. 16, no. 23. Dostupné na: <https://doi.org/10.3390/ma16237333>, Registrované v: WOS

ADCA545

TERZIOGLU, R. - VOJENČIAK, Michal - SHENG, J. - GÖMÖRY, Fedor - ÇAVUŞ, T.F. - BELENLI, I. AC loss characteristics of CORC® cable with a Cu former. In Superconductor Science and Technology, 2017, vol. 30, no. 085012. (2016: 2.878 - IF, Q2 - JCR, 0.967 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/aa757d>

Citácie:

1. [1.1] GAO, S.Y. - SHI, S.J. - YANG, X.S. - SHEN, B.Y. - HU, X.B. - ZHU, Y.P. - WU, B.H. - ZHAO, Y. HTS conductor coil by in-situ winding technology for large-scale high-field magnet. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acff27>, Registrované v: WOS
2. [1.1] HAO, L.N. - HU, J.T. - WEI, H.G.N. - WANG, Q. - TIAN, M.Y. - PATEL, I. - SHAH, A. - COOMBS, T. Transport AC Losses in Multiple-Layer Roebel Tapes. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3243567>, Registrované v: WOS
3. [1.1] LAI, X. - ZUO, J. - HU, X. - ZHANG, T. - LIU, J. - LI, P.Y. Experimental investigation of axial tensile and fatigue behaviors of HTS round strands. In SUPERCONDUCTIVITY. DEC 2023, vol. 8. Dostupné na: <https://doi.org/10.1016/j.supcon.2023.100069>, Registrované v: WOS
4. [1.1] LI, Q.Z. - LU, Y.M. - ZHAO, W.W. - ZHOU, D.F. - CAI, C.B. Effects of Winding Angle on Losses of CORC Cable-A Numerical Study. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, MAR 2023, vol. 33, no. 2. Dostupné na: <https://doi.org/10.1109/TASC.2022.3224841>, Registrované v: WOS
5. [1.1] NGUYEN, L.N. - SHIELDS, N. - ASHWORTH, S. - NGUYEN, D.N. Understanding ac losses in CORC cables of YBCO superconducting tapes by numerical simulations. In JOURNAL OF APPLIED PHYSICS. ISSN 0021-8979, OCT 14 2023, vol. 134, no. 14. Dostupné na: <https://doi.org/10.1063/5.0162439>, Registrované v: WOS
6. [1.1] SHAN, S.H. - WANG, S.J. - YONG, H.D. - ZHOU, Y.H. Numerical simulations of electromagnetic behavior in CORC cable based on a modified H -

? formulation. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, MAY 1 2023, vol. 36, no. 5. Dostupné na:

<https://doi.org/10.1088/1361-6668/acc282>, Registrované v: WOS

7. [1.1] SOGABE, Y. - EZAKI, Y. - AMEMIYA, N. Influence of Non-Uniform Current Distribution Among Layers on AC Loss Characteristics of Multilayer Spiral Copper-Plated Striated Coated-Conductor Cables. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3251287>, Registrované v: WOS

8. [1.1] WU, J.F. - LIU, D.H. - ZHANG, X.Y. - YONG, H.D. Mechanical Response of Conductor on Round Core (CORC) Cables Under Electromagnetic Force. In ACTA MECHANICA SOLIDA SINICA. ISSN 0894-9166, JUN 2023, vol. 36, no. 3, p. 418-427. Dostupné na: <https://doi.org/10.1007/s10338-023-00388-x>, Registrované v: WOS

9. [1.1] ZHENG, J.X. - CHENG, Y. - LI, M. - LIU, F. - LIU, X.F. - LIU, H.Y. High temperature superconducting CORC cable with variable winding angles for low AC loss and high current carrying SMES system. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acff8b>, Registrované v: WOS

ADCA546 THAKUR, K.P. - RAJ, A. - BRANDT, E.H. - KVITKOVIČ, Jozef - PAMIDI, S.V. Frequency-dependent critical current and transport ac loss of superconductor strip and Roebel cable. In Superconductor Science and Technology, 2011, vol. 24, 065024. (2010: 2.402 - IF, Q1 - JCR, 1.480 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, SCOPUS). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/24/6/065024>

Citácie:

1. [1.1] DESIKAN, A. - DE BRUYN, B.J.H. - KROP, D.C.J. - LOMONOVA, E.A. Modeling and Analysis of HTS Linear Motors in High-Dynamic Applications. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3262625>, Registrované v: WOS

2. [1.1] FRANCIS, A.C. - VENUTURUMILLI, S. - MOSELEY, D.A. - CLARIDGE, S. - LEUW, B. - BADCOCK, R.A. - BUMBY, C.W. Electrical, magnetic and thermal circuit modelling of a superconducting half-wave transformer rectifier flux pump using Simulink. In SUPERCONDUCTIVITY. SEP 2023, vol. 7. Dostupné na: <https://doi.org/10.1016/j.supcon.2023.100053>, Registrované v: WOS

3. [1.1] HARTMANN, C. - MELLERUD, R. - NOLAND, J.K. - NILSSEN, R. A Static FEA Framework for Fast Analysis of HTS Armature Windings in AC Superconducting SMPM Machines. In IEEE TRANSACTIONS ON ENERGY CONVERSION. ISSN 0885-8969, SEP 2023, vol. 38, no. 3, p. 2191-2201. Dostupné na: <https://doi.org/10.1109/TEC.2023.3270775>, Registrované v: WOS

4. [1.1] JIANG, L. - XUE, C. - ZHOU, Y.H. Sensitivity of the thermomagnetic instability in superconducting film to magnetic perturbation for electromagnetic interference detection. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, FEB 1 2023, vol. 36, no. 2. Dostupné na: <https://doi.org/10.1088/1361-6668/aaaa07>, Registrované v: WOS

5. [1.1] LIU, G.J. - ZHANG, G.M. - LIU, G.L. - WANG, H.A. - JING, L.W. Transport AC Loss Characteristic of $\text{YBaCuO}_{7-\delta}$ Coils With and Without Magnetic Substrate Up To 10 kHz. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, JAN

2023, vol. 33, no. 1. Dostupné na: <https://doi.org/10.1109/TASC.2022.3221157>, Registrované v: WOS

6. [1.1] MELLERUD, R. - HARTMANN, C. - KLOP, C.L. - AUSTAD, S. - NOLAND, J.K. Design of a Power-Dense Aviation Motor With a Low-Loss Superconducting Slotted Armature. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, NOV 2023, vol. 33, no. 8. Dostupné na: <https://doi.org/10.1109/TASC.2023.3316192>, Registrované v: WOS

7. [1.1] OBANA, T. - KAWAGOE, A. Numerical Analysis of Hysteresis Loss in Stacked REBCO Tapes for Large Current-Carrying Conductors. In PLASMA AND FUSION RESEARCH. ISSN 1880-6821, FEB 24 2023, vol. 18. Dostupné na: <https://doi.org/10.1585/pfr.18.2405013>, Registrované v: WOS

8. [1.1] RIVA, N. - HALBACH, A. - LYLY, M. - MESSE, C. - RUUSKANEN, J. - LAHTINEN, V. H- empty set Formulation in Sparselizard Combined With Domain Decomposition Methods for Modeling Superconducting Tapes, Stacks, and Twisted Wires. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3240389>, Registrované v: WOS

9. [1.1] UEJIMA, K. - SUN, Y.M. - MIYAGI, D. - GLOWACKI, J. - LONG, N.J. - JIANG, Z.N. Numerical simulation on AC loss in REBCO tapes carrying non-sinusoidal currents. In SUPERCONDUCTIVITY. DEC 2023, vol. 8. Dostupné na: <https://doi.org/10.1016/j.supcon.2023.100063>, Registrované v: WOS

10. [1.1] YAN, L. - ZHOU, W.H. - HOU, J.B. - WANG, B. - JIA, R.L. - LIANG, R. In-field electro-magnetic-force characteristics of high-temperature superconducting films containing cracks. In PHYSICA C- SUPERCONDUCTIVITY AND ITS APPLICATIONS. ISSN 0921-4534, DEC 15 2023, vol. 615. Dostupné na: <https://doi.org/10.1016/j.physc.2023.1354378>, Registrované v: WOS

ADCA547 TIXADOR, Pascal** - BAUER, M. - BRUZEK, C.-E. - CALLEJA, A. - DEUTSCHER, Guy - DUTOIT, B. - GÖMÖRY, Fedor - MARTINI, L. - NOE, M. - OBRADORS, X. - PEKARČÍKOVÁ, M. - SIROIS, F. Status of the European Union project FASTGRID. In IEEE Transactions on Applied Superconductivity, 2019, vol. 29, no. 5603305. (2018: 1.692 - IF, Q3 - JCR, 0.406 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2019.2908586> (H2020 FASTGRID)

Citácie:

1. [1.1] CHASSAGNOUX, R. - LESAIN, O. - BONIFACI, N. - GALLOT-LAVALLEE, O. - CREUSOT, C. - GIRODET, A. Breakdown Phenomena in Liquid Nitrogen Under Synchronized Transient Boiling and Impulse Voltage. In IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION. ISSN 1070-9878, AUG 2023, vol. 30, no. 4, p. 1690-1697. Dostupné na: <https://doi.org/10.1109/TDEI.2023.3252488>, Registrované v: WOS

ADCA548 TIXADOR, Pascal** - AKBAR, A. - BAUER, M. - BOCCHI, M. - CALLEJA, A. - CREUSOT, C. - DEUTSCHER, G. - GÖMÖRY, Fedor - NOE, M. - OBRADORS, X. - PEKARČÍKOVÁ, M. - SIROIS, F. Some Results of the EU Project FASTGRID. In IEEE Transactions on Applied Superconductivity, 2022, vol. 32, no. 5601006. (2021: 1.949 - IF, Q3 - JCR, 0.443 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2022.3151318>

Citácie:

1. [1.1] KOZAK, S. The influence of the mass of copper plates on the parameters of a superconducting surge current limiter. In PRZEGLAD ELEKTROTECHNICZNY. ISSN 0033-2097, 2023, vol. 99, no. 7, p. 147-151.

Dostupné na: <https://doi.org/10.15199/48.2023.07.27>, Registrované v: WOS
2. [1.2] Niayesh, K.: *Open research questions and future trends. In Green HV Switching Technologies for Modern Power Networks (2023) pp. 373-406*,
Registrované v: SCOPUS

ADCA549 TÓBIK, Jaroslav - CAMBEL, Vladimír - KARAPETROV, Goran. Dynamics of vortex nucleation in nanomagnets with broken symmetry. In *Physical Review B*, 2012, vol. 86, 134433. (2011: 3.691 - IF, Q1 - JCR, 3.326 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.86.134433>

Citácie:

1. [1.1] XU, M. - JIANG, G.Q. - ZHANG, Z.Y. - ZHANG, J.Y. - HU, C.J. - CHEN, W.L. - CHEN, Y.L. *Irreversible switching of vortex core in Pac-man nanodisks induced by rotating magnetic fields. In JOURNAL OF PHYSICS D-APPLIED PHYSICS. ISSN 0022-3727, FEB 2 2023, vol. 56, no. 5. Dostupné na:*

<https://doi.org/10.1088/1361-6463/acab11>, Registrované v: WOS

ADCA550 TRNOVCOVÁ, Viera - FEDOROV, P.P. - BUCHINSKAYA, I.I. - ŠMATKO, Vasilij - HANIC, František. Fast ionic conductivity of Pb₂MF₂ (M=Mg, Ba, Cd) and PbF₂: ScF₃ single crystals and composites. In *Solid State Ionics*, 1999, vol. 119, p. 181-189. (1998: 1.080 - IF, karentované - CCC). (1999 - Current Contents).

Citácie:

1. [1.1] IKEDA, M. - ANIYA, M. *An extended theory of vacancy formation and its application to ionic conduction in the intrinsic and extrinsic regions. In PHILOSOPHICAL MAGAZINE. ISSN 1478-6435, JAN 17 2023, vol. 103, no. 2, p. 101-118. Dostupné na: <https://doi.org/10.1080/14786435.2022.2129111>, Registrované v: WOS*

2. [1.1] TAKAMI, T. - PATTANATHUMMASID, C. - KUTANA, A. - ASAHI, R. *Challenges for fluoride superionic conductors: fundamentals, design, and applications. In JOURNAL OF PHYSICS-CONDENSED MATTER. ISSN 0953-8984, JUL 26 2023, vol. 35, no. 29. Dostupné na: <https://doi.org/10.1088/1361-648X/accb32>, Registrované v: WOS*

ADCA551 TROJÁNEK, F.** - HAMRÁČEK, K. - HANÁK, M. - VARGA, Marian - KROMKA, A. - BABCHENKO, Oleg - ONDIČ, L. - MALÝ, P. Light emission dynamics of silicon vacancy centers in a polycrystalline diamond thin film. In *Nanoscale*, 2023, vol. 15, iss. 6, pp. 2734-2738. (2022: 6.7 - IF, Q1 - JCR, 1.62 - SJR, Q1 - SJR). ISSN 2040-3364. Dostupné na: <https://doi.org/10.1039/d2nr05470a> (MoRePro 19MRP0010)

Citácie:

1. [1.1] ZHANG, T.T. - WANG, L.Z. - WANG, J. - WANG, Z.Q. - GUPTA, M. - GUO, X.Y. - ZHU, Y. - YIU, Y.C. - HUI, T.K.C. - ZHOU, Y. - LI, C. - LEI, D.Y. - LI, K.H. - WANG, X.Q. - WANG, Q. - SHAO, L. - CHU, Z.Q. *Multimodal dynamic and unclonable anti-counterfeiting using robust diamond microparticles on heterogeneous substrate. In NATURE COMMUNICATIONS. MAY 2 2023, vol. 14, no. 1. Dostupné na: <https://doi.org/10.1038/s41467-023-38178-1>, Registrované v: WOS*

ADCA552 TSINDLEKHT, M.I. - GENKIN, V.M. - FELNER, I. - ZEIDES, F. - KATZ, N. - GAŽI, Štefan - CHROMIK, Štefan. dc and ac magnetic properties of thin-walled superconducting niobium cylinders. In *Physical Review B*, 2014, vol. 90, 014514. (2013: 3.664 - IF, Q1 - JCR, 2.804 - SJR, Q3 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.90.014514>

Citácie:

1. [1.1] CHIKUROV, D.S. - VOLKOV, M.P. *Similarity of magnetization and*

magnetic flux jumps evolution with the magnetic field direction relative to the plane of the superconducting niobium plate. In PHYSICA C- SUPERCONDUCTIVITY AND ITS APPLICATIONS. ISSN 0921-4534, MAY 15 2023, vol. 608. Dostupné na: <https://doi.org/10.1016/j.physc.2023.1354240>, Registrované v: WOS

2. [1.1] XIE, W. - LIU, Y.H. - FAN, X.W. - WEN, H.H. Significant improvement of the lower critical field in Y doped Nb: potential replacement of basic material for the radio-frequency superconducting cavity. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, JUL 1 2023, vol. 36, no. 7. Dostupné na: <https://doi.org/10.1088/1361-6668/acd608>, Registrované v: WOS

ADCA553 TSINDLEKHT, M.I. - GENKIN, V.M. - GAŽI, Štefan - CHROMIK, Štefan. AC conductivity of a niobium thin film in a swept magnetic field. In Journal of Physics: Condensed Matter, 2013, vol. 25, 085701. (2012: 2.355 - IF, Q2 - JCR, 1.688 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/0953-8984/25/8/085701>

Citácie:

1. [1.1] DINC, R.U. - BUKUSOGLU, E. Controlled release of microcargos from water-in-liquid crystal emulsions via interfacial shear induced by synthetic microstirrers. In SOFT MATTER. ISSN 1744-683X, JUN 14 2023, vol. 19, no. 23, p. 4304-4314. Dostupné na: <https://doi.org/10.1039/d3sm00319a>, Registrované v: WOS

ADCA554 TULINSKÁ, J. - KAŽIMÍROVÁ, Alena - KURICOVÁ, M. - BARANCOKOVÁ, M. - LIŠKOVÁ, A. - NEUBAUEROVÁ, E. - DRLIČKOVÁ, M. - ČIAMPOR, Fedor - VÁVRA, I. - BILANICOVÁ, D. - POJANA, G. - STARUCHOVÁ, M. - HORVÁTHOVÁ, M. - JAHNOVÁ, E. - VOLKOVÁ, K. - BARTUSOVÁ, M. - CAGALINEC, M. - DUŠINSKÁ, M. Immunotoxicity and genotoxicity testing of PLGA-PEO nanoparticles in human blood cell model. In Nanotoxicology, 2015, vol. 9, no. S1, p. 33 - 43. (2014: 6.411 - IF, Q1 - JCR, 1.714 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1743-5390. Dostupné na: <https://doi.org/10.3109/17435390.2013.816798>

Citácie:

1. [1.1] DONINI, M. - PETTINELLA, F. - ZANELLA, G. - GAGLIO, S.C. - LAUDANNA, C. - JIMENEZ-CARRETERO, M. - JIMENEZ-LOPEZ, C. - PERDUCA, M. - DUSI, S. Effects of Magnetic Nanoparticles on the Functional Activity of Human Monocytes and Dendritic Cells. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JAN 2023, vol. 24, no. 2. Dostupné na: <https://doi.org/10.3390/ijms24021358>, Registrované v: WOS

2. [1.2] MACEDO, Leticia Bueno - CODEVILLA, Cristiane Franco - MATHES, Daniela - MAIA, Bianca Costa - ROLIM, Clarice Madalena Bueno - NOGUEIRA-LIBRELOTTO, Daniele Rubert. Biofate and cellular interactions of PLGA nanoparticles. In Poly(lactic-co-glycolic acid) (PLGA) Nanoparticles for Drug Delivery, 2023-01-01, pp. 87-119. Dostupné na: <https://doi.org/10.1016/B978-0-323-91215-0.00003-0>, Registrované v: SCOPUS

3. [1.2] PATHAK, Suhrud - GOPAL, Kruthi - DERUITER, Jack - NADAR, Rishi M. - PONDUGULA, Satyanarayana - RAMESH, Sindhu - DUA, Kamal - DUREJA, Harish - CLARK, Randall - MOORE, Timothy - DHANASEKARAN, Muralikrishnan. Elucidating the Molecular Mechanisms of Toxicity of Natural Polymer-Based Drug Delivery Systems Used in Various Pulmonary Disorders. In Natural Polymeric Materials based Drug Delivery Systems in Lung Diseases, 2023-01-01, pp. 425-443. Dostupné na: https://doi.org/10.1007/978-981-19-7656-8_23, Registrované v: SCOPUS

4. [1.2] SINGH, Deepti - KHAN, Mohammad Afsar - SIDDIQUE, Hifzur R.

- PLGA-based nanoparticles for the treatment of inflammatory diseases. In Poly(lactic-co-glycolic acid) (PLGA) Nanoparticles for Drug Delivery, 2023-01-01, pp. 211-233. Dostupné na: <https://doi.org/10.1016/B978-0-323-91215-0.00007-8>, Registrované v: SCOPUS*
5. [1.2] YURTDAS KIRIMLIOĞLU, Gülsel. *History, introduction, and properties of PLGA as a drug delivery carrier. In Poly(lactic-co-glycolic acid) (PLGA) Nanoparticles for Drug Delivery, 2023-01-01, pp. 3-25. Dostupné na: <https://doi.org/10.1016/B978-0-323-91215-0.00001-7>, Registrované v: SCOPUS*
- ADCA555 UEDA, K. - KRČMÁR, Roman - GENDIAR, Andrej - NISHINO, T. *Corner transfer matrix renormalization group method applied to the ising model on the hyperbolic plane. In Journal of Physical Society of Japan, 2007, vol. 76, 084004.*
- Citácie:
1. [1.1] LUKIN, I.V. - SOTNIKOV, A.G. *Variational optimization of tensor-network states with the honeycomb-lattice corner transfer matrix. In PHYSICAL REVIEW B. ISSN 2469-9950, FEB 21 2023, vol. 107, no. 5. Dostupné na: <https://doi.org/10.1103/PhysRevB.107.054424>, Registrované v: WOS*
2. [1.1] OKUNISHI, K. - TAKAYANAGI, T. *Statistical mechanics approach to the holographic renormalization group: Bethe lattice Ising model and p-adic AdS/CFT. In PROGRESS OF THEORETICAL AND EXPERIMENTAL PHYSICS. ISSN 2050-3911, JAN 9 2023, vol. 2024, no. 1. Dostupné na: <https://doi.org/10.1093/ptep/ptad156>, Registrované v: WOS*
3. [1.2] ASADUZZAMAN, Muhammad - CATTERALL, Simon - HUBISZ, Jay - NELSON, Roice - UNMUTH-YOCKEY, Judah. *Recent work on tessellations of hyperbolic geometries. In Proceedings of Science, 2022-07-08, 396, pp., Registrované v: SCOPUS*
4. [1.2] PATINO, Nicholas H. - RASMUSSEN, Curtis - RUZZENE, Massimo. *Vibration localization in elastic hyperbolic lattices. In Proceedings of SPIE The International Society for Optical Engineering, 2023-01-01, 12431, pp. ISSN 0277786X. Dostupné na: <https://doi.org/10.1117/12.2661153>, Registrované v: SCOPUS*
- ADCA556 UEDA, T. - OTANI, R. - NISHIO, Y. - GENDIAR, Andrej - NISHIO, T. *Snapshot observation for 2D classical lattice models by corner transfer matrix renormalization group. In Journal of Physical Society of Japan, 2005, vol. 74, p. S111-114.*
- Citácie:
1. [1.1] COLBOIS, J. - VANHECKE, B. - VANDERSTRAETEN, L. - SMERALD, A. - VERSTRAETE, F. - MILA, F. *Partial lifting of degeneracy in the J1-J2-J3 Ising antiferromagnet on the kagome lattice. In PHYSICAL REVIEW B. ISSN 2469-9950, NOV 2 2022, vol. 106, no. 17. Dostupné na: <https://doi.org/10.1103/PhysRevB.106.174403>, Registrované v: WOS*
2. [1.1] FRIAS-PÉREZ, M. - MARIËN, M. - PÉREZ-GARCÍA, D. - BAÑULS, M.C. - IBLISDIR, S. *Collective Monte Carlo updates through tensor network renormalization. In SCIPOST PHYSICS. ISSN 2542-4653, MAY 2023, vol. 14, no. 5. Dostupné na: <https://doi.org/10.21468/SciPostPhys.14.5.123>, Registrované v: WOS*
3. [1.2] BAÑULS, Mari Carmen. *Tensor Network Algorithms: A Route Map. In Annual Review of Condensed Matter Physics, 2023-03-10, 14, pp. 173-191. ISSN 19475454. Dostupné na: <https://doi.org/10.1146/annurev-conmatphys-040721-022705>, Registrované v: SCOPUS*
- ADCA557 ULBRICHT, A. - DUCHATEAU, J.L. - FIETZ, W.H. - CIAZYNSKI, D. - FILLUNGER, H. - FINK, S. - HELLER, R. - MAIX, R. - NICOLLET, S. - RAFF, S. - RICCI, M. - SALPIETRO, E. - ZAHN, G. - ZANINO, R. - BAGNASCO, M. - BESETTE, D. - BOBROV, E. - BONICELLI, T. - BRUZZONE, P.L. -

DARWESCHSAD, M.S. - DECOOL, P. - DOLGETTA, N. - DELLA CORTE, A. - FORMISANO, A. - GRÜNHAGEN, A. - HERTOOUT, P. - HERZ, W. - HUGUET, M. - HURD, F. - ILYIN, Yu. - KOMAREK, P. - LIBEYRE, P. - MARCHESE, V. - MARINUCCI, C. - MARTINEZ, A. - MARTONE, R. - MARTOVETSKY, N.N. - MICHAEL, P. - MITCHELL, N. - NIJHUIS, A. - NÖTHER, G. - NUNOYA, Y. - POLÁK, Milan - PORTONE, A. - SAVOLDI RICHARD, L. - SPADONI, M. - SÜßER, M. - TURTÚ, S. - VOSTNER, A. - TAKAHASHI, Y. - WUCHNER, F. - ZANI, L. The ITER toroidal field model coil project. In Fusion Engineering and Design, 2005, vol. 73, p. 189-327.

Citácie:

1. [1.1] WANG, W.J. - JIN, J. - WU, L. - DENG, M. - SHI, J.H. - JIN, H. - HUANG, C.J. - YUAN, Y. - LIU, K. - WANG, S.T. - QIN, J.G. - LI, L.F. - LI, J.G. Study on the welding properties of modified N50 CICC jacket for future fusion applications. In JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T. ISSN 2238-7854, NOV-DEC 2023, vol. 27, p. 6094-6103. Dostupné na: <https://doi.org/10.1016/j.jmrt.2023.11.076>, Registrované v: WOS

2. [1.1] WHEATLEY, L.E. - BAUMGARTNER, T. - EISTERER, M. - SPELLER, S.C. - MOODY, M.P. - GROVENOR, C.R.M. Understanding the nanoscale chemistry of as-received and fast neutron irradiated Nb₃Sn RRP[®] wires using atom probe tomography. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, AUG 1 2023, vol. 36, no. 8. Dostupné na: <https://doi.org/10.1088/1361-6668/acdbed>, Registrované v: WOS

3. [1.2] SONG, Xiuhe - GUO, Liang - LIU, Huajun - SHI, Yi - LIU, Fang. Seismic Analysis of the Support Structure for CFETR TF Magnet. In 2023 IEEE International Conference on Applied Superconductivity and Electromagnetic Devices, ASEMD 2023, 2023-01-01, pp. Dostupné na: <https://doi.org/10.1109/ASEMD59061.2023.10369113>, Registrované v: SCOPUS

ADCA558 UŠÁK, E.** - UŠÁKOVÁ, M. - DOSOUDIL, R. - ŠOKA, M. - DOBROČKA, Edmund. Influence of iron substitution by selected rare-earth ions on the properties of NiZn ferrite fillers and PVC magneto-polymer composites. In AIP Advances, 2018, vol. 8, no. 047805. (2017: 1.653 - IF, Q3 - JCR, 0.472 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 2158-3226. Dostupné na: <https://doi.org/10.1063/1.4993547>

Citácie:

1. [1.2] LIU, Xiang - JIANG, Yanbin - HAN, Yue - GUO, Ying - ZHENG, Kun - ZHOU, Heng. Review on Technology Development and Application Status of Rare Earths in Polymeric Material Fields. In Chemistry Bulletin / Huaxue Tongbao, 2023-01-18, 86, 1, pp. 55-62. ISSN 04413776., Registrované v: SCOPUS

ADCA559 UŠÁK, E. - ŠOKA, Milan - UŠÁKOVÁ, M. - DOBROČKA, Edmund. Structural and magnetic properties of nano-sized NiZn ferrites. In Acta Physica Polonica A, 2014, vol. 126, p. 68-69. (2013: 0.604 - IF, Q4 - JCR, 0.345 - SJR, Q3 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 1898-794X. Dostupné na: <https://doi.org/10.12693/APhysPolA.126.68>

Citácie:

1. [1.1] KOTERAS, D. - TOMCZUK, B. - WAINDOK, A. Implicit iteration calculations using 3D field analyses, to predict the power loss in powder ferromagnets, with their measurement tests. In MEASUREMENT. ISSN 0263-2241, FEB 15 2023, vol. 207. Dostupné na: <https://doi.org/10.1016/j.measurement.2022.112311>, Registrované v: WOS

ADCA560 UTSCHICK, C.** - SOM, C. - ŠOUC, Ján - GROSSE, V. - GÖMÖRY, Fedor - GROSS, R. Superconducting wireless power transfer beyond 5 kW at high power

density for industrial applications and fast battery charging. In IEEE Transactions on Applied Superconductivity, 2021, vol. 31, no. 5500110. (2020: 1.704 - IF, Q3 - JCR, 0.467 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2021.3056195>

Citácie:

1. [1.1] CHEN, H.Y. - ZHANG, H.Y. AC loss mitigation for high temperature superconducting coils in wireless power transfer. In SUPERCONDUCTIVITY. JUN 2023, vol. 6. Dostupné na: <https://doi.org/10.1016/j.supcon.2023.100044>, Registrované v: WOS
2. [1.1] CHOUKRI, S. - TAKHEDMIT, H. - EL MRABET, O. - HAMIDOUCHE, M. - CIRIO, L. Distance and Efficiency Improvement in Wireless Power Transfer Systems through Steering Magnetic Field using Metasurface with Negative Permeability. In 2023 17TH EUROPEAN CONFERENCE ON ANTENNAS AND PROPAGATION, EUCAP. ISSN 2164-3342, 2023. Dostupné na: <https://doi.org/10.23919/EuCAP57121.2023.10133615>, Registrované v: WOS
3. [1.1] INOUE, R. - NAGASAKI, Y. - TSUDA, M. - MIYAGI, D. Basic Coil Structure for Rapid Charge in a Low-Frequency and High-Efficiency Wireless Power Transmission System Using High-Temperature Superconducting Coil for Railway Vehicle. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, JAN 2023, vol. 33, no. 1. Dostupné na: <https://doi.org/10.1109/TASC.2022.3220342>, Registrované v: WOS
4. [1.1] LIU, G.J. - ZHANG, G.M. - LIU, G.L. - WANG, H.A. - JING, L.W. Study of the Applicable Frequency Band of the YBCO Coil. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, SEP 2023, vol. 33, no. 6. Dostupné na: <https://doi.org/10.1109/TASC.2023.3265772>, Registrované v: WOS
5. [1.1] LIU, G.J. - ZHANG, G.M. - LIU, G.L. - WANG, H.A. - JING, L.W. Transport AC Loss Characteristic of $\text{YB}\{\mathbf{a}\}_2\{\mathbf{C}\}\{\mathbf{u}\}_3\{\mathbf{O}\}_7-\delta$ Coils With and Without Magnetic Substrate Up To 10 kHz. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, JAN 2023, vol. 33, no. 1. Dostupné na: <https://doi.org/10.1109/TASC.2022.3221157>, Registrované v: WOS
6. [1.1] NAKUTIS, Z. - LUKOCIUS, R. - GIRDENIS, V. - KROICS, K. A Measurement Method of Power Transferred to an Electric Vehicle Using Wireless Charging. In SENSORS. DEC 2023, vol. 23, no. 24. Dostupné na: <https://doi.org/10.3390/s23249636>, Registrované v: WOS
7. [1.1] PURUSHOTHAMAN, D. - NARAYANAMOORTHY, R. - ELRASHIDI, A. - KOTB, H. A Comprehensive Review on Single-Stage WPT Converter Topologies and Power Factor Correction Methodologies in EV Charging. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 135529-135555. Dostupné na: <https://doi.org/10.1109/ACCESS.2023.3338164>, Registrované v: WOS
8. [1.2] Yang, Y.-M., Ma, R.-R., Lei, F.-M.: EFFECT OF NON-UNIFORMITY OF CRITICAL CURRENT DENSITY ON ELECTROMAGNETIC MECHANICAL PROPERTIES OF SUPERCONDUCTING THIN STRIP In Gongcheng Lixue/Engineering Mechanics 40(2023), pp. 247-256, Registrované v: SCOPUS

ADCA561

VALENTOVIČ, Daniel - ČERVENÁK, Ján - LUBY, Štefan - ALDEA, M.L. - BOTILA, T. Some non-equilibrium phenomena in sputtered cdte thin films. In Physica status solidi A, 1979, vol. 56, pp. 341-347. ISSN 0031-8965.

Citácie:

1. [1.1] RADUTA, A.M. - PANAITESCU, A.M. - RADU, A. - ION, L. - ANTOHE, V.A. - TOMA, O. - IFTIMIE, S. - ANTOHE, S. Effect of the back contact electrode

on the performances of the ultra-thin photovoltaic cells based on the CdS/CdTe heterojunction. In CHALCOGENIDE LETTERS. ISSN 1584-8663, DEC 2023, vol. 20, no. 12, p. 871-882. Dostupné na:

<https://doi.org/10.15251/CL.2023.2012.871>, Registrované v: WOS

ADCA562 VANKO, Gabriel - LALINSKÝ, Tibor - HAŠČÍK, Štefan - RÝGER, Ivan - MOZOLOVÁ, Želmíra - ŠKRINIAROVÁ, Jaroslava - TOMÁŠKA, M. - KOSTIČ, Ivan - VINCZE, A. Impact of SF6 plasma treatment on performance of AlGaIn/GaN HEMT. In Vacuum, 2009, vol. 84, p. 235-237. (2008: 1.114 - IF, Q3 - JCR, 0.566 - SJR, Q2 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0042-207X. Dostupné na: <https://doi.org/10.1016/j.vacuum.2009.04.032>

Citácie:

1. [1.1] CHO, H.K. - RASS, J. - MOGILATENKO, A. - KUNKEL, K. - UNGER, R.S. - SCHILLING, M. - WERNICKE, T. - EINFELDT, S. Impact of Plasma Treatment of n-Al_{0.87}Ga_{0.13}N:Si Surfaces on V/Al/Ni/Au Contacts in Far-UVC LEDs. In IEEE PHOTONICS TECHNOLOGY LETTERS. ISSN 1041-1135, SEPT 1 2023, vol. 35, no. 17, p. 915-918. Dostupné na:

<https://doi.org/10.1109/LPT.2023.3288216>, Registrované v: WOS

ADCA563 VANKO, Gabriel - LALINSKÝ, Tibor - MOZOLOVÁ, Želmíra - LIDAY, J. - VOGRINČIČ, P. - VINCZE, A. - UHEREK, F. - HAŠČÍK, Štefan - KOSTIČ, Ivan. Nb-Ti/Al/Ni/Au based ohmic contacts to AlGaIn/GaN. In Vacuum, 2007, vol. 82, pp. 193-196. (2006: 0.834 - IF, Q3 - JCR, 0.464 - SJR, Q2 - SJR). Dostupné na: <https://doi.org/10.1016/j.vacuum.2007.07.020>

Citácie:

1. [1.1] DE PASQUALE, Giorgio. Design and Modeling of MEMS Microgrippers for Laser-Based Additive Manufacturing. In MICRO-SWITZERLAND, 2022, vol. 2, no. 2, pp. 225-239. Dostupné na: <https://doi.org/10.3390/micro2020015>,

Registrované v: WOS

2. [3.1] FATHY, J. - KRSTIC, A. - HUBBARD, T. - & LAI, Y. A novel three-state electrothermally actuated microgripper. In Canadian Society for Mechanical Engineering International Congress 2022 (CSME Congress 2022). 2022, pp. 1-5. doi: 10.7939/r3-3vaa-9d72.

ADCA564 VANKO, Gabriel - HUDEK, Peter - ZEHETNER, J. - DZUBA, Jaroslav - CHOLEVA, P. - KUTIŠ, V. - VALLO, Martin - RÝGER, Ivan - LALINSKÝ, Tibor. Bulk micromachining of SiC substrate for MEMS sensor applications. In Microelectronic Engineering, 2013, vol. 110, p. 260-264. (2012: 1.224 - IF, Q2 - JCR, 0.737 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0167-9317. Dostupné na: <https://doi.org/10.1016/j.mee.2013.01.046>

Citácie:

1. [1.1] CHEN, J.J. - WU, H. - BAI, S.H. - HUANG, J.L. Response of mechanical properties and subsurface damage in β -SiC to temperature and crystal plane during nanoindentation simulation. In MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING. ISSN 1369-8001, OCT 2023, vol. 165.

Dostupné na: <https://doi.org/10.1016/j.mssp.2023.107651>, Registrované v: WOS

ADCA565 VANKO, Gabriel - DRŽÍK, Milan - VALLO, Martin - LALINSKÝ, Tibor - KUTIŠ, V. - STANČÍK, S. - RÝGER, Ivan - BENČUROVÁ, Anna. AlGaIn/GaN C-HEMT structures for dynamic stress detection. In Sensors and Actuators A, 2011, vol. 172, p. 98-102. (2010: 3.370 - IF, Q1 - JCR, 1.434 - SJR, Q1 - SJR). ISSN 0925-4005. Dostupné na: <https://doi.org/10.1016/j.sna.2011.02.049>

Citácie:

1. [1.1] QING-BIN, L. - CUI, Y. - JIAN-CHAO, G. - MENG-YU, M. - ZE-ZHAO, H. - CHUANG-JIE, Z. - XUE-DONG, G. - HAO, Y. - ZHI-HONG, F. Influence of polycrystalline diamond on silicon-based GaN material. In ACTA PHYSICA

ADCA566 *SINICA. ISSN 1000-3290, MAY 5 2023, vol. 72, no. 9. Dostupné na: <https://doi.org/10.7498/aps.72.20221942>, Registrované v: WOS*
VARGA, M. - IZSÁK, Tibor - VRETENÁR, Viliam - KOZAK, H. - HOLOVSKY, J. - ARTEMENKO, A. - HULMAN, Martin - SKÁKALOVÁ, Viera - LEE, D.S. - KROMKA, A. Diamond/carbon nanotube composites: Raman, FTIR, and XPS spectroscopic studies. In *Carbon*, 2017, vol. 111, p. 54-61. (2016: 6.337 - IF, Q1 - JCR, 2.091 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0008-6223. Dostupné na: <https://doi.org/10.1016/j.carbon.2016.09.064>

Citácie:

1. [1.1] ALI, A. - KOLOOR, S.S.R. - ALSHEHRI, A.H. - AROCKIARAJAN, A. Carbon nanotube characteristics and enhancement effects on the mechanical features of polymer-based materials and structures-A review. In *JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T. ISSN 2238-7854, MAY-JUN 2023, vol. 24, p. 6495-6521. Dostupné na: <https://doi.org/10.1016/j.jmrt.2023.04.072>, Registrované v: WOS*
2. [1.1] CHEN, Y.Y. - WANG, Q. - CHEN, N.J. - LUO, Q.T. - LI, H.J. - LI, J. - YANG, W.Q. Internally-externally molecules-scissored ramie carbon for high performance electric double layer supercapacitors. In *ELECTROCHIMICA ACTA. ISSN 0013-4686, JAN 20 2023, vol. 439. Dostupné na: <https://doi.org/10.1016/j.electacta.2022.141583>, Registrované v: WOS*
3. [1.1] DAS, M. - DAS, D. - SIL, S. - RAY, P.P. Development of hierarchical copper sulfide-carbon nanotube (CuS-CNT) composites and utilization of their superior carrier mobility in efficient charge transport towards photodegradation of Rhodamine B under visible light. In *NANOSCALE ADVANCES. ISSN 2516-0230, JUL 11 2023, vol. 5, no. 14, p. 3655-3663. Dostupné na: <https://doi.org/10.1039/d3na00204g>, Registrované v: WOS*
4. [1.1] EOM, S. - LEE, S.Y. - PARK, J.T. - CHOI, I. Alveoli-Like Multifunctional Scaffolds for Optical and Electrochemical In Situ Monitoring of Cellular Responses from Type II Pneumocytes. In *ADVANCED SCIENCE. AUG 15 2023, vol. 10, no. 23. Dostupné na: <https://doi.org/10.1002/advs.202301395>, Registrované v: WOS*
5. [1.1] GONZÁLEZ, A.D. - VÁZQUEZ, N.A.R. PM3 semi-empirical method and Monte Carlo simulation application on pesticides adsorption on SWCNT. In *COLLOID AND INTERFACE SCIENCE COMMUNICATIONS. ISSN 2215-0382, MAR 2023, vol. 53. Dostupné na: <https://doi.org/10.1016/j.colcom.2023.100699>, Registrované v: WOS*
6. [1.1] HUANG, J. - KUO, C.L. - TSAI, H.Y. Increased UV resistance and mechanical properties of regenerated polycarbonate/acrylonitrile-styrene-acrylic via addition of modified CNT and 2-(2'-hydroxy-5'-methylphenyl)benzotriazole. In *POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, FEB 2023, vol. 208. Dostupné na: <https://doi.org/10.1016/j.polymdegradstab.2023.110262>, Registrované v: WOS*
7. [1.1] JI, J.H. - PARK, S. - CHOI, J.H. Morphology Engineering of Hybrid Supercapacitor Electrodes from Hierarchical Stem-like Carbon Networks with Flower-like MoS₂ Structures. In *ACS OMEGA. ISSN 2470-1343, MAY 1 2023, vol. 8, no. 19, p. 16833-16841. Dostupné na: <https://doi.org/10.1021/acsomega.3c00445>, Registrované v: WOS*
8. [1.1] KOO, D. - SUNG, J.B. - SUH, H. - BAE, S. - SO, H.Y. Comprehensive analysis of CNT/NS/GO composites: Dispersion effect of graphene oxide for environmental sensor application. In *COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING. ISSN 1359-835X, OCT 2023, vol. 173. Dostupné na: <https://doi.org/10.1016/j.compositesa.2023.107639>, Registrované v: WOS*

WOS

9. [1.1] LING, C. - JIN, D. - LI, R.H. - LI, C.L. - WANG, W.H. *Self-assembled membranes modulate the active site of carbon fiber paper to boost the two-electron water oxidation reaction.* In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, JUN 1 2023, vol. 465. Dostupné na: <https://doi.org/10.1016/j.cej.2023.142903>, Registrované v: WOS
10. [1.1] LING, C. - LIANG, A.P. - LI, C.L. - WANG, W.H. *Coupling functional anodes with natural air-diffused cathodes enables highly efficient hydrogen peroxide electrosynthesis.* In *JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE A*. ISSN 1673-565X, APR 2023, vol. 24, no. 4, SI, p. 377-386. Dostupné na: <https://doi.org/10.1631/jzus.A2200566>, Registrované v: WOS
11. [1.1] LIU, D.X. - YANG, Y. - ZHANG, J.A. - WANG, L.M. - MA, Z.W. - REN, L. - WANG, J.Q. - XUE, B. - LI, F.F. *Improved OER catalytic performance of NiFe-LDH with hydrothermal carbonization microspheres.* In *JOURNAL OF ALLOYS AND COMPOUNDS*. ISSN 0925-8388, APR 25 2023, vol. 941. Dostupné na: <https://doi.org/10.1016/j.jallcom.2023.168994>, Registrované v: WOS
12. [1.1] LONG, R. - LIU, Y. - TAO, J.M. - ZHANG, H. - LIU, Y.C. - BAO, R. - LI, F.X. - LI, C.J. - YI, J.H. *Synergistic influence of carbon nanotube-graphene oxide hybrid and nanosized interfacial TiC on the mechanical performance of Cu matrix composites.* In *JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T*. ISSN 2238-7854, JUL-AUG 2023, vol. 25, p. 2866-2879. Dostupné na: <https://doi.org/10.1016/j.jmrt.2023.06.140>, Registrované v: WOS
13. [1.1] LUO, Q.Y. - WU, X. - WANG, E.R. - GUO, C.Y. *Compositing Nanostructured Polyaniline with Single-Walled Carbon Nanotubes for High Thermoelectric Performance.* In *INTERNATIONAL JOURNAL OF ENERGY RESEARCH*. ISSN 0363-907X, FEB 7 2023, vol. 2023. Dostupné na: <https://doi.org/10.1155/2023/6989497>, Registrované v: WOS
14. [1.1] MA, B.B. - CHEN, F. - CHENG, Y.Z. - WANG, X. - YAN, S.Q. - GONG, R.Z. - LUO, H. *Ti₃C₂T_x MXene@NiFe layered double hydroxide derived multiple interfacial composites with efficient microwave absorption.* In *JOURNAL OF ALLOYS AND COMPOUNDS*. ISSN 0925-8388, MAR 5 2023, vol. 936. Dostupné na: <https://doi.org/10.1016/j.jallcom.2022.168162>, Registrované v: WOS
15. [1.1] MA, J.Y. - ZHANG, C.Y. - HONG, X.P. - LIU, J.Y. *Incorporating Cerium Vanadate into Multi-Walled Carbon Nanotubes for Fabrication of Sensitive Electrochemical Sensors toward Sulfamethazine Determination in Water Samples.* In *CHEMOSENSORS*. JAN 2023, vol. 11, no. 1. Dostupné na: <https://doi.org/10.3390/chemosensors11010064>, Registrované v: WOS
16. [1.1] MATSUNO, T. - ISOBE, H. *Trapped yet Free inside the Tube: Supramolecular Chemistry of Molecular Peapods.* In *BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN*. ISSN 0009-2673, MAY 2023, vol. 96, no. 5, p. 406-419. Dostupné na: <https://doi.org/10.1246/bcsj.20230052>, Registrované v: WOS
17. [1.1] MU, Y.H. - CHEN, L.C. - SONG, Y.W. - SHEN, W.X. - ZHANG, Z.F. - ZHANG, Y.W. - WANG, Q.Q. - WAN, B. - LI, Y.D. - FANG, C. - JIA, X.P. *Interaction mechanism of Ge, Ti, and N in diamond prepared by high pressure and high temperature conditions.* In *INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS*. ISSN 0263-4368, JAN 2023, vol. 110. Dostupné na: <https://doi.org/10.1016/j.ijrmhm.2022.106052>, Registrované v: WOS
18. [1.1] PAN, R.J. - LIN, Y.L. - ZHANG, T.Y. - WEI, X.L. - DONG, Z.Y. - HU, C.Y. - TANG, Y.L. - XU, B. *Sequential combination of pre-chlorination and*

- powdered activated carbon adsorption on iodine removal and I-THMs control in drinking water. In *CHEMOSPHERE*. ISSN 0045-6535, FEB 2023, vol. 313. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2022.137529>, Registrované v: WOS
19. [1.1] QIAO, Z.Q. - ZHAO, L.P. - LI, N.A. - ZHANG, J. - ZHAO, K.K. - JI, D.Q. - JI, D.B. - YUAN, D.D. - LI, Z.D. - WU, H.J. Highly efficient and environmental-friendly separation and purification of carbon nanotubes from molten salt via ultrasound-assisted carbonation. In *SEPARATION AND PURIFICATION TECHNOLOGY*. ISSN 1383-5866, FEB 1 2023, vol. 306, A. Dostupné na: <https://doi.org/10.1016/j.seppur.2022.122630>, Registrované v: WOS
20. [1.1] RASHED, A.O. - HUYNH, C. - MERENDA, A. - QIN, S. - MAGHE, M. - KONG, L.X. - KONDO, T. - RAZAL, J.M. - DUMEE, L.F. Electrocatalytic ultrafiltration membrane reactors designed from dry-spun self-standing carbon nanotube sheets. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, FEB 15 2023, vol. 458. Dostupné na: <https://doi.org/10.1016/j.cej.2023.141517>, Registrované v: WOS
21. [1.1] RASHED, A.O. - HUYNH, C. - MERENDA, A. - QIN, S. - USMAN, K.A.S. - SADEK, A. - KONG, L.X. - KONDO, T. - DUMEE, L.F. - RAZAL, J.M. Schottky-like photo/electro-catalytic carbon nanotube composite ultrafiltration membrane reactors. In *CARBON*. ISSN 0008-6223, FEB 2023, vol. 204, p. 238-253. Dostupné na: <https://doi.org/10.1016/j.carbon.2022.12.073>, Registrované v: WOS
22. [1.1] YIN, J.Y. - LIANG, J.Z. - YUAN, C.X. - ZHENG, W. Facile Synthesis of Hydrogen-Substituted Graphdiyne Powder via Dehalogenative Homocoupling Reaction. In *NANOMATERIALS*. MAR 2023, vol. 13, no. 6. Dostupné na: <https://doi.org/10.3390/nano13061018>, Registrované v: WOS
23. [1.1] ZHANG, J. - ZHAO, Z.Y. - ZHANG, Z.Q. - GUO, L.S. - XU, L.J. - SUN, P.P. - WANG, M. - GAO, M. - LI, Y. - LI, D.W. - BOUKHERROUB, R. Construction of flexible fiber-shaped boron-doped diamond film and its supercapacitor application. In *JOURNAL OF COLLOID AND INTERFACE SCIENCE*. ISSN 0021-9797, JAN 2023, vol. 629, A, p. 813-821. Dostupné na: <https://doi.org/10.1016/j.jcis.2022.08.143>, Registrované v: WOS
24. [1.1] ZHANG, M.L. - CHENG, D.J. - QIU, G.J. - NING, M. - DUAN, Z.H. - WAN, B.S. - TANG, S. - MIAO, L. - LI, Z.H. - ZHANG, H.Y. Superlattice-like alternating layered Zn₂SiO₄/C with large interlayer spacing for high-performance sodium storage. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, MAY 1 2023, vol. 449. Dostupné na: <https://doi.org/10.1016/j.electacta.2023.142163>, Registrované v: WOS
25. [1.1] ZHANG, R.Y. - ZHENG, Y.T. - LIU, J.L. - LI, C.M. - CHEN, C.K. - HU, X.J. - LI, J.L. - LIU, R. - YE, H.T. Morphology-dependent antibacterial properties of diamond coatings. In *FUNCTIONAL DIAMOND*. ISSN 2694-1112, DEC 31 2022, vol. 2, no. 1, p. 204-214. Dostupné na: <https://doi.org/10.1080/26941112.2022.2157225>, Registrované v: WOS
26. [1.1] ZHANG, Y.Y. - CHEN, S.T. - ZHANG, Y.X. - LI, R.J. - ZHAO, B. - PENG, T.Y. Hydrogen-Bond Regulation of the Microenvironment of Ni(II)-Porphyrin Bifunctional Electrocatalysts for Efficient Overall Water Splitting. In *ADVANCED MATERIALS*. ISSN 0935-9648, MAY 2023, vol. 35, no. 19. Dostupné na: <https://doi.org/10.1002/adma.202210727>, Registrované v: WOS
27. [1.1] ZHAO, Z.P. - LONG, X.Y. - MILLAN, M. - YUAN, G.M. - CUI, Z.W. - DONG, Z.J. - CONG, Y. - ZHANG, J. - LI, X.K. The influence of carbon supports and their surface modification on aqueous phase highly selective hydrogenation

of phenol to cyclohexanol over different Ni/carbon catalysts. In *CARBON*. ISSN 0008-6223, SEP 2023, vol. 213. Dostupné na: <https://doi.org/10.1016/j.carbon.2023.118227>, Registrované v: WOS

28. [1.1] ZHOU, J. - YANG, P. - KOTS, P.A. - COHEN, M. - CHEN, Y. - QUINN, C.M. - DE MELLO, M.D. - ANIBAL BOSCOBOINIK, J. - SHAW, W.J. - CARATZOULAS, S. - ZHENG, W. - VLACHOS, D.G. Tuning the reactivity of carbon surfaces with oxygen-containing functional groups. In *NATURE COMMUNICATIONS*. APR 21 2023, vol. 14, no. 1. Dostupné na: <https://doi.org/10.1038/s41467-023-37962-3>, Registrované v: WOS

29. [1.1] ZHU, Z. - LIU, H. - DING, P.F. - FU, Y.Y. - CAO, H.M. - XU, W. - HE, Q.G. - CHENG, J.G. Direct Active Site at the Van der Waals Heterostructure Interface with Synthetic Drug Analogue N-Methylphenethylamine Ultrasensitivity. In *ACS SENSORS*. ISSN 2379-3694, MAR 24 2023, vol. 8, no. 3, p. 1318-1327. Dostupné na: <https://doi.org/10.1021/acssensors.2c02829>, Registrované v: WOS

30. [1.2] AGRAWAL, Arpana. The analysis of carbonaceous materials using x-ray photoelectron spectroscopy. In *X-Ray Photoelectron Spectroscopy: Principles, Techniques and Applications*, 2023-11-03, pp. 129-151., Registrované v: SCOPUS

31. [1.2] SHARMA, Neelam - PAREEK, Shubhra - SHRIVASTAVA, Rahul - BEHERA, Debasis. Functionalized Carbon Nanotubes: Synthesis and Characterization. In *Functionalized Carbon Nanotubes for Biomedical Applications*, 2023-01-01, pp. 21-47. Dostupné na: <https://doi.org/10.1002/9781119905080.ch2>, Registrované v: SCOPUS

32. [1.2] WANG, Fei - FENG, Yi - LI, Xinchao - LIU, Zhuhan. Research on Multiple Arc Erosion Properties of Cu-Diamond Composites. In *Zhongguo Jixie Gongcheng/China Mechanical Engineering*, 2023-07-10, 34, 13, pp. 1599-1604. ISSN 1004132X. Dostupné na: <https://doi.org/10.3969/j.issn.1004-132X.2023.13.009>, Registrované v: SCOPUS

ADCA567 PRIBULOVÁ, Zuzana - MEDVECKÁ, Zuzana - KAČMARČÍK, Jozef - KOMANICKÝ, Vladimír - KLEIN, Thierry - RODIÉRE, P. - LEVY-BERTRAND, F. - MICHON, B. - MARCENAT, Christophe - HUSANÍKOVÁ, Petra - CAMBEL, Vladimír - ŠOLTÝS, Ján - KARAPETROV, Goran - BORISENKO, Serhii - EVTUSHINSKY, D.V. - BERGER, Herbert - SAMUELY, Peter. Magnetic and thermodynamic properties of CuxTiSe2 single crystals. In *Physical Review B*, 2017, vol. 95, no. 17, art. no. 174512. (2016: 3.836 - IF, Q2 - JCR, 2.339 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.95.174512>

Citácie:

1. [1.1] NAIK, S. - SARANGI, S.N. - SAMAL, D. - SAMAL, S.L. Effect of an inner-transition metal (Dy) intercalation on the structure and magnetic properties of 1T-TiSe2. In *JOURNAL OF SOLID STATE CHEMISTRY*. ISSN 0022-4596, FEB 2023, vol. 318. Dostupné na: <https://doi.org/10.1016/j.jssc.2022.123782>, Registrované v: WOS

ADCA568 VÁVRA, Ivo - LUBY, Štefan. Resistivity and structure of evaporated polycrystalline molybdenum films. In *Thin Solid Films*, 1980, vol. 69, p. 169-174. ISSN 0040-6090.

Citácie:

1. [1.1] PENG, H.Y. - HOU, Y.X. - MENG, W.W. - ZHENG, H. - ZHAO, L.G. - ZHANG, Y. - LI, K.X. - ZHAO, P.L. - LIU, T. - JIA, S.F. - WANG, J.B. Pseudo-Elasticity and Variable Electro-Conductivity Mediated by Size-Dependent Deformation Twinning in Molybdenum Nanocrystals. In *SMALL*. ISSN 1613-6810, MAY 2023, vol. 19, no. 21. Dostupné na:

- <https://doi.org/10.1002/sml.202206380>, *Registrované v: WOS*
- ADCA569 VÁVRA, Ivo - BYDŽOVSKÝ, J. - ŠVEC, Peter - DÉRER, Ján - KAMBERSKÝ, V. - FRAIT, Z. - LOPUŠNIK, R. - ŠTURC, P. - HILSCHER, G. Low-temperature studies of magnetic Fe/FeSi multilayers. In *Physica B : condensed matter*, 2000, vol. 284-288, p. 1241-1242. (1999: 0.725 - IF, karentované - CCC). (2000 - Current Contents, WOS, SCOPUS). ISSN 0921-4526.
- Citácie:*
1. [1.1] KUZMANN, E. - NOMURA, K. - STICHLEUTNER, S. - NAKANISHI, A. - PECHOUSEK, J. - MACHALA, L. - HOMONNAY, Z. - VONDRASEK, R. - SKURATOV, V.A. - KRUPA, L. - MALINA, O. - INGR, T. - KUBUKI, S. *Swift heavy ion irradiation-induced amorphous iron and Fe-Si oxide phases in metallic ^qFe layer vacuum deposited on surface of SiO₂/Si. In JOURNAL OF MATERIALS RESEARCH. ISSN 0884-2914, FEB 28 2023, vol. 38, no. 4, SI, p. 1061-1073. Dostupné na: <https://doi.org/10.1557/s43578-022-00767-z>, *Registrované v: WOS**
- ADCA570 VÁVRA, Ondrej - GAŽI, Štefan - VÁVRA, Ivo - DÉRER, Ján - KOVÁČOVÁ, Eva. High efficiency Andreev reflection observed in Nb/Fe_{0.5}Si_{0.5}/Nb Josephson junctions. In *Physica C*, 2004, vol. 404, p. 395-399. (2003: 1.192 - IF, karentované - CCC). (2004 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.
- Citácie:*
1. [1.1] POPOVIC, Z. - MIRANOVIC, P. *Current-voltage characteristics and conductance spectra in s-wave or d-wave superconductor/ferromagnet/superconductor heterojunctions: role of Andreev reflection. In EUROPEAN PHYSICAL JOURNAL PLUS. ISSN 2190-5444, AUG 29 2023, vol. 138, no. 8. Dostupné na: <https://doi.org/10.1140/epjp/s13360-023-04394-3>, *Registrované v: WOS**
- ADCA571 VÉGSÖ, Karol** - SHAJI, Ashin - SOJKOVÁ, Michaela - PRIBUSOVÁ SLUŠNÁ, Lenka - VOJTEKOVÁ, Tatiana - HRDÁ, Jana - HALAHOVETS, Yuriy - HULMAN, Martin - JERGEL, Matej - MAJKOVÁ, Eva - WIESMANN, J. - ŠIFFALOVÍČ, Peter. A wide-angle X-ray scattering laboratory setup for tracking phase changes of thin films in a chemical vapor deposition chamber. In *Review of Scientific Instruments*, 2022, vol. 93, no. 11, art. no. 113909. (2021: 1.843 - IF, Q3 - JCR, 0.606 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0034-6748. Dostupné na: <https://doi.org/10.1063/5.0104673> (ITMS2014+: 313021T081 : Vybudovanie Centra pre využitie pokročilých materiálov Slovenskej akadémie vied. 313021W404 : Medzinárodné centrum excelentnosti pre výskum inteligentných a bezpečných informačno-komunikačných technológií a systémov – II. etapa. APVV-19-0365 : Metalické 2D dichalkogenidy prechodných kovov: príprava, štúdium vlastností a korelované stavy. APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou. VEGA 2/0041/21. VEGA č. 2/0046/21 : Vplyv zabudovania MXénov do perovskitových solárnych článkov)
- Citácie:*
1. [1.1] CLOUGH, Robert - FISHER, Andy - GIBSON, Bridget - RUSSELL, Ben. *Atomic spectrometry update: review of advances in the analysis of metals, chemicals and materials. In JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY, 2023, vol. 38, no. 11, pp. 2215-2279. ISSN 0267-9477. Dostupné na: <https://doi.org/10.1039/d3ja90038j>, *Registrované v: WOS**
2. [1.1] KNESCHAUREK, Ekaterina - HINDERHOFER, Alexander - HOFFERBERTH, Bernd - SCHEFFCZYK, Niels - PITHAN, Linus - ZIMMERMANN, Paul - MERTEN, Lena - BERTRAM, Florian - SCHREIBER, Frank. *Compact sample environment for in situ X-ray scattering during spin-coating. In REVIEW OF SCIENTIFIC INSTRUMENTS, 2023, vol. 94, no. 6, pp.*

ISSN 0034-6748. Dostupné na: <https://doi.org/10.1063/5.0149613>, Registrované v: WOS

ADCA572 VILAMOVÁ, Z. - KONVIČKOVÁ, Z.** - MIKEŠ, Petr - HOLIŠOVÁ, V. - MANČÍK, P. - DOBROČKA, Edmund - KRATOŠOVÁ, G. - SEIDLEROVÁ, J. Ag-AgCl nanoparticles fixation on electrospun PVA fibres: technological concept and progress. In Scientific Reports, 2019, vol. 9, no. 15520. (2018: 4.011 - IF, Q1 - JCR, 1.414 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-019-51642-7>

Citácie:

1. [1.2] HASANZADEH, Amir - SHOJAEI, Salman - GHOLIPOUR, Behnam - VAHEDI, Parviz - ROSTAMNIA, Sadegh. Biosynthesis of MCC/IL/Ag-AgCl NPs by Cellulose-Based Nanocomposite for Medical Antibiofilm Applications. In Industrial and Engineering Chemistry Research, 2023-03-22, 62, 11, pp. 4729-4737. ISSN 08885885. Dostupné na: <https://doi.org/10.1021/acs.iecr.2c03277>, Registrované v: SCOPUS

ADCA573 VILJAMAA, Jonna - KULICH, Miloslav - KOVÁČ, Pavol - MELIŠEK, Tibor - REISSNER, M. Comparison on effects of B4C, Al2O3, and SiC doping on performance of MgB2 conductors. In IEEE Transactions on Applied Superconductivity, 2011, vol. 21, p. 2659-2663. (2010: 1.035 - IF, Q2 - JCR, 0.473 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2010.2096492>

Citácie:

1. [1.1] CHENG, F. - LIU, N. - MA, Z.Q. - GE, H.L. - LIU, Y.C. - SI, P.Z. - PU, C. Essential factors that can tremendously influence the grain connectivity of ex-situ sintered MgB2 superconductor. In PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS. ISSN 0921-4534, FEB 15 2023, vol. 605. Dostupné na: <https://doi.org/10.1016/j.physc.2023.1354210>, Registrované v: WOS

ADCA574 VINCZE, A. - LUPTÁK, Roman - HUŠEKOVÁ, Kristína - DOBROČKA, Edmund - FRÖHLICH, Karol. Thermal stability of GdScO3 and LaLuO3 films prepared by liquid injection MOCVD. In Vacuum, 2009, vol. 84, p. 170. (2008: 1.114 - IF, Q3 - JCR, 0.566 - SJR, Q2 - SJR, karentované - CCC). (2009 - Current Contents).

Citácie:

1. [1.1] KACHHAP, S. - GIRI, N.K. - SHRUTI - PRAKASH, R. - SINGH, S.K. Photon upconversion-based non-invasive temperature sensing using Gd1-x-yYbxEr yScO3 perovskite nanocrystals. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, MAR 5 2023, vol. 936. Dostupné na: <https://doi.org/10.1016/j.jallcom.2022.168192>, Registrované v: WOS

ADCA575 VOJENČIAK, Michal - DUTOIT, B. - ŠOUC, Ján - GÖMÖRY, Fedor. Can resistive-type fault current limiter operate in cryogen-free environment? In IEEE Transactions on Applied Superconductivity, 2016, vol. 26, art. no. 5602504. (2015: 1.092 - IF, Q3 - JCR, 0.403 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2016.2535175>

Citácie:

1. [1.1] ALASHQAR, M. - YANG, C.H. - XUE, Y. - LIU, Z.X. - ZHENG, W.Y. - ZHANG, X.P. Enhancing transient stability of power systems using a resistive superconducting fault current limiter. In FRONTIERS IN ENERGY RESEARCH. ISSN 2296-598X, JAN 23 2023, vol. 10. Dostupné na: <https://doi.org/10.3389/fenrg.2022.1106836>, Registrované v: WOS

ADCA576 VOJENČIAK, Michal - KARIO, A. - RINGSDORF, B. - NAST, R. - VAN DER LAAN, D.C. - SCHEITER, J. - JUNG, A. - RUNTSCH, B. - GÖMÖRY, Fedor -

GOLDACKER, W. Magnetization ac loss reduction in HTS CORC® cables made of striated coated conductors. In *Superconductor Science and Technology*, 2015, vol. 28, 104006. (2014: 2.325 - IF, Q2 - JCR, 1.196 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/28/10/104006>

Citácie:

1. [1.1] AMEMIYA, N. - SOGABE, Y. - SHIGEMASA, M. - SOBUE, T. - HIRANO, T. - YAMANO, S. - SAKAMOTO, H. Magnetization Loss and Current Transport Characteristics of SCSC Cables With Metal Cores. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3251305>, Registrované v: WOS
2. [1.1] CHOI, K. - HAN, J. - LEE, J.K. - KIM, W.S. Magnetization Loss Measurement of Twisted Stacked Tape Cable and Comparison With CORC. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3243537>, Registrované v: WOS
3. [1.1] CUNINKOVÁ, E. - PEKARČIKOVÁ, M. - FROLEK, L. - SIMON, S. - SKARBA, M. - HULACOVÁ, S. - KRAJCOVIC, J. Numerical and Experimental Design of the Former for TORT Cables. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3250383>, Registrované v: WOS
4. [1.1] KAWAGOE, A. - YOSHIMO, K. - MOTOKI, Y. - OBANA, T. - TAKAYASU, M. Investigation of Intertape Coupling Losses in YBCO-Stacked Cables. In *PLASMA AND FUSION RESEARCH*. ISSN 1880-6821, AUG 28 2023, vol. 18. Dostupné na: <https://doi.org/10.1585/pfr.18.2405074>, Registrované v: WOS
5. [1.1] LEE, J.K. - HAN, J. - CHOI, K. - KIM, W.S. Experimental study on the correlation between measurement length and winding or twist pitch for magnetization loss occurring in CORC and TSTC. In *PROGRESS IN SUPERCONDUCTIVITY AND CRYOGENICS*. ISSN 1229-3008, DEC 2023, vol. 25, no. 4, p. 40-44. Dostupné na: <https://doi.org/10.9714/psac.2023.25.4.040>, Registrované v: WOS
6. [1.1] OBANA, T. - KAWAGOE, A. Numerical Analysis of Hysteresis Loss in Stacked REBCO Tapes for Large Current-Carrying Conductors. In *PLASMA AND FUSION RESEARCH*. ISSN 1880-6821, FEB 24 2023, vol. 18. Dostupné na: <https://doi.org/10.1585/pfr.18.2405013>, Registrované v: WOS
7. [1.1] PEKARČIKOVÁ, M. - FROLEK, L. - NECPAL, M. - CUNINKOVÁ, E. - SKARBA, M. - HULACOVÁ, S. - FERENCIK, F. - BOCÁKOVÁ, B. Optimization of REBCO Tapes through Division and Striation for Use in Superconducting Cables with Low AC Losses. In *MATERIALS*. DEC 2023, vol. 16, no. 23. Dostupné na: <https://doi.org/10.3390/ma16237333>, Registrované v: WOS
8. [1.1] QIAO, Y.K. - SUN, Y.M. - BADCOCK, R.A. - STRICKLAND, N.M. - JIANG, Z.A. Simulation of Dynamic Resistance and Total Loss of HTS CORC Cables. In *IEEE ACCESS*. ISSN 2169-3536, 2023, vol. 11, p. 797-807. Dostupné na: <https://doi.org/10.1109/ACCESS.2022.3232726>, Registrované v: WOS
9. [1.1] SHIGEMASA, M. - SOGABE, Y. - TAKAHASHI, A. - AMEMIYA, N. Impact of Number of Layers on Magnetization Losses of Spiral Copper-Plated Multifilament Coated Conductors. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3266420>, Registrované v: WOS
10. [1.1] SKARBA, M. - PEKARČIKOVÁ, M. - FROLEK, L. - CUNINKOVÁ, E. - NECPAL, M. - SIMON, S. Striating of REBCO-Coated Conductors for AC Loss

Reduction. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, DEC 2023, vol. 33, no. 9. Dostupné na: <https://doi.org/10.1109/TASC.2023.3327966>, Registrované v: WOS

11. [1.1] SOGABE, Y. - EZAKI, Y. - AMEMIYA, N. *Influence of Non-Uniform Current Distribution Among Layers on AC Loss Characteristics of Multilayer Spiral Copper-Plated Striated Coated-Conductor Cables. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3251287>, Registrované v: WOS*

12. [1.1] WU, J.F. - LIU, D.H. - ZHANG, X.Y. - YONG, H.D. *Mechanical Response of Conductor on Round Core (CORC) Cables Under Electromagnetic Force. In ACTA MECHANICA SOLIDA SINICA. ISSN 0894-9166, JUN 2023, vol. 36, no. 3, p. 418-427. Dostupné na: <https://doi.org/10.1007/s10338-023-00388-x>, Registrované v: WOS*

13. [1.1] XU, G.W. - SOGABE, Y. - AMEMIYA, N. *Effect of Current Sharing by Metal Core on Reducing Hot-Spot Temperature of Spiral Coated Conductors. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3250168>, Registrované v: WOS*

14. [1.2] Lee, J.-K., Han, J., Choi, K., Kim, W.-S.: *Experimental study on the correlation between measurement length and winding or twist pitch for magnetization loss occurring in CORC and TSTC In Progress in Superconductivity and Cryogenics (PSAC) 25(2023), pp. 40-44, Registrované v: SCOPUS*

ADCA577 VOJENČIAK, Michal - GRILLI, F. - TERZIEVA, S. - GOLDACKER, W. - KOVÁČOVÁ, M. - KLING, A. *Effect of self-field on the current distribution in Roebel-assembled coated conductor cables. In Superconductor Science and Technology, 2011, vol. 24, 095002. (2010: 2.402 - IF, Q1 - JCR, 1.480 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, SCOPUS). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/24/9/095002>*

Citácie:

1. [1.1] YUAN, S.Z. - DAI, S.T. - MA, T. - TAN, Y.L. *Critical Current Analysis of a Three-Slot Cable by Using of YBCO Tapes. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, MAR 2023, vol. 33, no. 2. Dostupné na: <https://doi.org/10.1109/TASC.2022.3224945>, Registrované v: WOS*

ADCA578 WANG, Y.** - WENG, F. - LI, J. - ŠOUČ, Ján - GÓMÓRY, Fedor - ZOU, S. - ZHANG, M. - YUAN, W. *No-insulation high-temperature superconductor winding technique for electrical aircraft propulsion. In IEEE Transactions on Transportation Electrification, 2020, vol. 6, p. 1613 – 1624. (2019: 5.444 - IF, Q1 - JCR, 1.895 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2332-7782. Dostupné na: <https://doi.org/10.1109/TTE.2020.3000598> (VEGA 1/0151/17)*

Citácie:

1. [1.1] ALVAREZ, P. - SATRÚSTEGUI, M. - SCHEIFLER, S.G. - BASTARRARENA, J. - LÓPEZ, L.G. - MARTINEZ-ITURRALDE, M. *Design of a HTS 2 MW Electric Motor for Single-Aisle Regional Aircraft. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 144325-144336. Dostupné na: <https://doi.org/10.1109/ACCESS.2023.3343816>, Registrované v: WOS*

2. [1.1] BONG, U. - YOON, J. - CHA, J. - KIM, J. - KIM, R.E. - KIM, J.G. - HAHN, S. *Compensation of NI Behaviors in Synchronous Motors With NI HTS Field Winding Using Harmonic Current Injection. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3262213>, Registrované v: WOS*

3. [1.1] CHOW, C.C.T. - AINSLIE, M.D. - CHAU, K.T. High temperature superconducting rotating electrical machines: An overview. In *ENERGY REPORTS*. ISSN 2352-4847, DEC 2023, vol. 9, p. 1124-1156. Dostupné na: <https://doi.org/10.1016/j.egy.2022.11.173>, Registrované v: WOS
4. [1.1] KIM, H.W. - JO, Y.S. - KIM, S.W. Characteristics of Non-Insulated High-Temperature Superconductor Coils in Time-Varying Magnetic Fields. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3266708>, Registrované v: WOS
5. [1.1] OTTEN, S. - TER HARMSEL, J. - DHALLE, M. - TEN KATE, H. Calculation and measurement of coupling loss in a no-insulation ReBCO racetrack coil exposed to AC magnetic field. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, APR 1 2023, vol. 36, no. 4. Dostupné na: <https://doi.org/10.1088/1361-6668/acbcf5>, Registrované v: WOS
6. [1.1] TER HARMSEL, J. - OTTEN, S. - DHALLÉ, M. - TEN KATE, H. Effect of a DC transport current on the AC loss in no-insulation ReBCO racetrack coils exposed to AC parallel magnetic field at 77 K and 4.2 K. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, JUL 1 2023, vol. 36, no. 7. Dostupné na: <https://doi.org/10.1088/1361-6668/acd666>, Registrované v: WOS
7. [1.1] WU, W. - LU, L. - ZHONG, Z.Y. - LI, K. - JIN, Z.J. A non-destructive method for detecting turn-to-turn resistivity distribution in NI REBCO coils. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, OCT 1 2023, vol. 36, no. 10. Dostupné na: <https://doi.org/10.1088/1361-6668/acef6a>, Registrované v: WOS
8. [1.1] ZHONG, Z.Y. - WU, W. - LU, L. - SHEN, B.Y. - DONG, F.L. - WANG, L.B. - HONG, Z.Y. - JIN, Z.J. Time-variant magnetic field, voltage, and loss of no-insulation (NI) HTS magnet induced by dynamic resistance generation from external AC fields. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, MAY 1 2023, vol. 36, no. 5. Dostupné na: <https://doi.org/10.1088/1361-6668/acbd6b>, Registrované v: WOS
9. [1.2] Volety, R., Mani, G.: AI-based predictive modeling of delamination factor for carbon fiber-reinforced polymer (CFRP) drilling process In *Optimization Techniques in Engineering: Advances and Applications (2023)* pp. 139-153, Registrované v: SCOPUS

ADCA579 WULFF, A.C. - SOLOVYOV, Mykola - GÖMÖRY, Fedor - ABRAHAMSEN, A.B. - MISHIN, O.V. - USOSKIN, A. - RUTT, A. - LUNDEMAN, J.H. - THYDEN, K. - HANSEN, J.B. - GRIVEL, J.C. Two level undercut-profile substrate for filamentary YBa₂Cu₃O₇ coated conductors. In *Superconductor Science and Technology*, 2015, vol. 28, 072001. (2014: 2.325 - IF, Q2 - JCR, 1.196 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/28/7/072001>

Citácie:

1. [1.1] MATSUMOTO, A. - TACHIKI, M. - OOI, S. Development of YBCO Patterned Multi-Filamentary Film Using Photolithography Method. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3244515>, Registrované v: WOS

ADCA580 XU, Y. - KHAFIZOV, M.L. - SATRAPINSKY, L. - KÚŠ, P. - PLECENIK, Andrej - SOBOLEWSKI, R. Time-resolved photoexcitation of the superconducting two-gap state in MgB₂ thin films. In *Physical Review Letters*, 2003, vol. 91, p. 197004. (2002: 7.323 - IF, karentované - CCC). (2003 - Current Contents, WOS, SCOPUS).

ISSN 0031-9007.

Citácie:

1. [1.1] GAN, Y. - MIRZAEI, B. - SILVA, J.R.G. - CHEREDNICHENKO, S. - VAN DER TAK, F. - GAO, J.R. Heterodyne performance and characteristics of terahertz MgB₂ hot electron bolometers. In JOURNAL OF APPLIED PHYSICS. ISSN 0021-8979, FEB 21 2023, vol. 133, no. 7. Dostupné na:

<https://doi.org/10.1063/5.0128791>, Registrované v: WOS

ADCA581

YAZDANI ASRAMI, M.** - SONG, W.J. - MORANDI, A. - DE CARNE, G. - MURTA-PINA, Joao - PARDO, Enric. Roadmap on artificial intelligence and big data techniques for superconductivity. In Superconductor Science and Technology, 2023, vol. 36, no. 043501. (2022: 3.6 - IF, Q2 - JCR, 1.191 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/acbb34>

Citácie:

1. [1.1] PARAMANE, A. - AWAIS, M. - CHANDRASEKARAN, T. - JUNAID, M. - NAZIR, M.T. - CHEN, X.R. A Review on Insulation and Dielectrics for High-Temperature Superconducting Cables for Power Distribution: Progress, Challenges, and Prospects. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, SEP 2023, vol. 33, no. 6. Dostupné na: <https://doi.org/10.1109/TASC.2023.3267055>, Registrované v: WOS

2. [1.1] WU, G.L. - YONG, H.D. Estimation of critical current density of bulk superconductor with artificial neural network. In SUPERCONDUCTIVITY. SEP 2023, vol. 7. Dostupné na: <https://doi.org/10.1016/j.supcon.2023.100055>, Registrované v: WOS

3. [1.2] XIA, Lingxi - LIANG, Yung C. AlGa_N/Ga_N Split-Electrode Sectorial Sensor Array for Ultra-Low Magnetic Field Detection at 8 μT. In 2023 22nd International Conference on Solid-State Sensors, Actuators and Microsystems, Transducers 2023, 2023-01-01, pp. 209-212., Registrované v: SCOPUS

4. [1.2] YADAV, Dhananjay - VENNILA, C. - SONALI, P. - DODA, Devendra Kumar - SIVAKUMAR, Srinivas - DEHANKAR, Pooja. Applying Artificial Intelligence Techniques for Optimizing Big Data Retrieval Performance. In Proceedings 2023 IEEE International Conference on Paradigm Shift in Information Technologies with Innovative Applications in Global Scenario, ICPSITIAGS 2023, 2023-01-01, pp. 67-73. Dostupné na:

<https://doi.org/10.1109/ICPSITIAGS59213.2023.10527562>, Registrované v: SCOPUS

ADCA582

ZANI, L. - BAYER, C.M. - BIANCOLINI, M.E. - BRUZZONE, P.L. - BRUTTI, C. - CIAZYNSKI, D. - COLEMAN, Michael - DURAN, I. - EISTERER, M. - FIETZ, W.H. - GADE, P.V. - GAIO, E. - GIORGETTI, F. - GOLDACKER, W. - GÖMÖRY, Fedor - GRANADOS, X. - HELLER, R. - HERTOUT, P. - HOA, C. - KARIO, A. - LACROIX, B. - LEWANDOWSKA, Marta - MAISTRELLO, A. - MUZZI, L. - NIJHUIS, A. - NUNIO, F. - PANIN, A. - PETRISOR, T. - PONCET, J.-M. - PROKOPEC, R. - SANMARTI CARDONA, M. - SAVOLDI, L. - SCHLACHTER, S. - SEDLAK, K. - STEPANOV, B. - TISEANU, I. - TORRE, A. - TURTÚ, S. - VALLCORBA, R. - VOJENČIAK, Michal - WEISS, K.-P. - WESCHE, R. - YAGOTINTSEV, K. - ZANINO, R. Overview of progress on the EU DEMO reactor magnet system design. In IEEE Transactions on Applied Superconductivity, 2016, vol. 26, art. no. 4204505. (2015: 1.092 - IF, Q3 - JCR, 0.403 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 1051-8223. Dostupné na:

<https://doi.org/10.1109/TASC.2016.2536755>

Citácie:

1. [1.1] LI, X.D. - GROSSE, V. - SONG, D.B. - YANG, W.J. - MACIÁN-JUAN, R.

Electromechanical behaviour of REBCO coated conductor toroidal field coils for ultra-high-field magnetic-confinement plasma devices. In JOURNAL OF PHYSICS D-APPLIED PHYSICS. ISSN 0022-3727, JAN 26 2023, vol. 56, no. 4. Dostupné na: <https://doi.org/10.1088/1361-6463/aca988>, Registrované v: WOS

2. [1.1] WU, F. - LIU, X.G. - GAO, X. - ZHANG, J. - WANG, D.Q. - ZHU, J.D. - YU, L.J. - HONG, S.H. - LI, J.J. - REN, Y. - WU, Y. - LI, J.A. An approach of calculating winding pack smeared properties for TF magnets using artificial neural network. In FUSION ENGINEERING AND DESIGN. ISSN 0920-3796, JUL 2023, vol. 192. Dostupné na: <https://doi.org/10.1016/j.fusengdes.2023.113790>, Registrované v: WOS

3. [1.1] XIONG, F.F. - ZHENG, J.X. - LIU, X.F. - LI, M. - CHENG, Y. - LIU, F. Stability Analysis of 14-T-Level High-Performance Nb3Sn Cable-in-Conduit Conductor for a Toroidal Field Coil. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, JUN 2023, vol. 33, no. 4. Dostupné na: <https://doi.org/10.1109/TASC.2023.3250421>, Registrované v: WOS

4. [1.2] BERSANO, Andrea - SEGANTIN, Stefano. History of nuclear power plants development. In Nuclear Power Reactor Designs: From History to Advances, 2023-01-01, pp. 3-40. Dostupné na: <https://doi.org/10.1016/B978-0-323-99880-2.00001-1>, Registrované v: SCOPUS

ADCA583 ZAŤKO, Bohumír - ŠAGÁTOVÁ, A. - SEDLAČKOVÁ, K. - BOHÁČEK, Pavol - SEKÁČOVÁ, Mária - KOHOUT, Z. - GRANJA, C. - NEČAS, V. Radiation detector based on 4H-SiC used for thermal neutron detection. In Journal of Instrumentation, 2016, vol. 11, art. no. C11022. (2015: 1.310 - IF, Q2 - JCR, 0.833 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 1748-0221. Dostupné na: <https://doi.org/10.1088/1748-0221/11/11/C11022>

Citácie:

1. [1.1] HOLIATKINA, M. - PöPPL, A. - KALABUKHOVA, E. - LANCOK, J. - SAVCHENKO, D. Spin exchange dynamics in 4H SiC monocrystals with different nitrogen donor concentrations. In JOURNAL OF APPLIED PHYSICS. ISSN 0021-8979, OCT 14 2023, vol. 134, no. 14. Dostupné na: <https://doi.org/10.1063/5.0172320>, Registrované v: WOS

ADCA584 ZAŤKO, Bohumír** - HRUBČÍN, Ladislav - ŠAGÁTOVÁ, A. - OSVALD, Jozef - BOHÁČEK, Pavol - ZÁPRAŽNÝ, Zdenko - SEDLAČKOVÁ, K. - SEKÁČOVÁ, Mária - DUBECKÝ, František - SKURATOV, V.A. - KORYTÁR, Dušan - NEČAS, V. Schottky barrier detectors based on high quality 4H-SiC semiconductor: electrical and detection properties. In Applied Surface Science, 2018, vol. 461, p. 276-280. (2017: 4.439 - IF, Q1 - JCR, 1.093 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2018.07.008>

Citácie:

1. [1.1] JIANG, L. - ZOU, W.T. - ZHANG, Q.P. - CHEN, Y.P. - YAN, X.H. - WANG, Y. - WANG, S.Y. Large-area vertical Schottky barrier diodes based on 4H-SiC epilayers: Temperature-dependent electrical characteristics. In NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. ISSN 0168-9002, MAR 2023, vol. 1048. Dostupné na: <https://doi.org/10.1016/j.nima.2022.167917>, Registrované v: WOS

ADCA585 ZAŤKO, Bohumír** - HRUBČÍN, Ladislav - ŠAGÁTOVÁ, A. - OSVALD, Jozef - BOHÁČEK, Pavol - KOVÁČOVÁ, Eva - HALAHOVETS, Yuriy - ROZOV, S.V. - SANDUKOVSKIJ, V.G. Study of Schottky barrier detectors based on a high quality 4H-SiC epitaxial layer with different thickness. In Applied Surface Science, 2021, vol. 536, no. 14, no. 147801. (2020: 6.707 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR,

karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0169-4332.

Dostupné na: <https://doi.org/10.1016/j.apsusc.2020.147801>

Citácie:

1. [1.1] BERNAT, Robert - KNEZEVIC, Tihomir - RADULOVIC, Vladimir - SNOJ, Luka - MAKINO, Takahiro - OHSHIMA, Takeshi - CAPAN, Ivana.

Radiation Response of Large-Area 4H-SiC Schottky Barrier Diodes. In MATERIALS, 2023, vol. 16, no. 6, pp. Dostupné na:

<https://doi.org/10.3390/ma16062202>, Registrované v: WOS

2. [1.1] CAPAN, Ivana - BERNAT, Robert - MAKINO, Takahiro - KNEZEVIC, Tihomir. *4H-SiC Schottky barrier diodes as radiation detectors: A role of Schottky contact area. In DIAMOND AND RELATED MATERIALS, 2023, vol. 137, no., pp. ISSN 0925-9635. Dostupné na:*

<https://doi.org/10.1016/j.diamond.2023.110072>, Registrované v: WOS

3. [1.1] HUANG, Zhi - ZHANG, Zhen - CHANG, Hudong - CHANG, Yakuan - LIU, Honggang - SUN, Bing. *Temperature-dependent electrical properties of schottky barrier diodes based on carbon nanotube arrays. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, 2023, vol. 34, no. 12, pp. ISSN 0957-4522. Dostupné na: <https://doi.org/10.1007/s10854-023-10447-1>, Registrované v: WOS*

4. [1.1] LONG, Ze - NIU, Mengchen - XIA, Xiaochuan - JIANG, Wei - LI, Yunju - JING, Hantao - LIANG, Hongwei - FAN, Ruirui. *Development of the large sensitive area 4H-SiC Schottky detectors at the Back-n. In NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, 2023, vol. 1056, no., pp. ISSN 0168-9002. Dostupné na:*

<https://doi.org/10.1016/j.nima.2023.168585>, Registrované v: WOS

5. [1.1] MANDAL, Krishna C. - CHAUDHURI, Sandeep K. - RUDDY, Frank H. *High-Resolution Alpha Spectrometry Using 4H-SiC Detectors: A Review of the State-of-the-Art. In IEEE TRANSACTIONS ON NUCLEAR SCIENCE, 2023, vol. 70, no. 5, pp. 823-830. ISSN 0018-9499. Dostupné na:*

<https://doi.org/10.1109/TNS.2023.3267996>, Registrované v: WOS

ADCA586 ZAŤKO, Bohumír - DUBECKÝ, František - ŠAGÁTOVÁ, A. - SEDLAČKOVÁ, K. - RYC, L. *High resolution alpha particle detectors based on 4H-SiC epitaxial layer. In Journal of Instrumentation, 2015, vol. 10, c04009. (2014: 1.399 - IF, Q2 - JCR, 0.683 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1748-0221. Dostupné na: <https://doi.org/10.1088/1748-0221/10/04/C04009>*

Citácie:

1. [1.2] Chen, C., Jia, Y., Sun, X., Li, D.: *SiC Radiation Detector Based on Metal-Insulator-Semiconductor Structures In Handbook of Silicon Carbide Materials and Devices (2023) pp. 403-417, Registrované v: SCOPUS*

ADCA587 ZEISSLER, K. - MRUCZKIEWICZ, Michal - FINIZIO, S. - RAABE, J. - SHEPLEY, P.M. - SADOVNIKOV, A.V. - NIKITOV, S.A. - FALLON, K. - MCFADZEAN, S. - MCVITIE, S. - MOORE, T.A. - BURNELL, G. - MARROWS, C.H. *Pinning and hysteresis in the field dependent diameter evolution of skyrmions in Pt/Co/Ir superlattice stacks. In Scientific Reports, 2017, vol. 7, art. no. 15125. (2016: 4.259 - IF, Q1 - JCR, 1.692 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-017-15262-3>*

Citácie:

1. [1.1] SANKHI, B.R. - ECHEVERRIA, E.M. - MANDAL, S. - ANNAORAZOV, M. - SACHAN, R. - MCLLOY, D.N. - MEYERS, D. - TURGUT, E. *Engineering*

Pt/Co/AlO_x heterostructures to enhance the Dzyaloshinskii-Moriya interaction. In JOURNAL OF PHYSICS-CONDENSED MATTER. ISSN 0953-8984, APR 14 2023, vol. 35, no. 14. Dostupné na: <https://doi.org/10.1088/1361-648X/acba73>, Registrované v: WOS

2. [1.1] YU, D.X. - GA, Y.L. - LIANG, J.H. - JIA, C.L. - YANG, H.X. *Voltage-Controlled Dzyaloshinskii-Moriya Interaction Torque Switching of Perpendicular Magnetization. In PHYSICAL REVIEW LETTERS. ISSN 0031-9007, FEB 2 2023, vol. 130, no. 5. Dostupné na: <https://doi.org/10.1103/PhysRevLett.130.056701>, Registrované v: WOS*

ADCA588 ZELENT, M. - TÓBIK, Jaroslav - KRAWCZYK, M. - GUSLIENKO, K.Y. - MRUCZKIEWICZ, Michal. *Bi-stability of magnetic skyrmions in ultrathin multilayer nanodots induced by magnetostatic interaction. In Physica Status Solidi RRL : Rapid Research Letters, 2017, vol. 11, art. no. 1700259. (2016: 3.032 - IF, Q1 - JCR, 1.178 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1862-6254. Dostupné na: <https://doi.org/10.1002/pssr.201700259>*

Citácie:

1. [1.1] CHAVES-O'; FLYNN, G.D. - STEIN, D.L. *Thermally activated transitions between micromagnetic states. In PHYSICA D-NONLINEAR PHENOMENA. ISSN 0167-2789, MAR 2023, vol. 445. Dostupné na:*

<https://doi.org/10.1016/j.physd.2022.133617>, Registrované v: WOS

ADCA589 ZELENT, M.** - VETROVA, Iuliia** - LI, X. - ZHOU, Yi - ŠOLTÝS, Ján - GUBANOV, V.A. - SADOVNIKOV, A.V. - ŠČEPKA, Tomáš - DÉRER, Ján - STOKLAS, Roman - CAMBEL, Vladimír - MRUCZKIEWICZ, Michal**. *Skyrmion formation in nanodisks using magnetic force microscopy tip. In Nanomaterials-Basel, 2021, vol. 11, art. no. 2627. (2020: 5.076 - IF, Q1 - JCR, 0.919 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 2079-4991. Dostupné na: <https://doi.org/10.3390/nano11102627>*

Citácie:

1. [1.1] CHAVES-O'; FLYNN, G.D. - STEIN, D.L. *Thermally activated transitions between micromagnetic states. In PHYSICA D-NONLINEAR PHENOMENA. ISSN 0167-2789, MAR 2023, vol. 445. Dostupné na:*

<https://doi.org/10.1016/j.physd.2022.133617>, Registrované v: WOS

ADCA590 ZERMONO, V. - SIROIS, F. - TAKAYASU, M. - VOJENČIAK, Michal - KARIO, A. - GRILLI, F. *A self-consistent model for estimating the critical current of superconducting devices. In Superconductor Science and Technology, 2015, vol. 28, 085004. (2014: 2.325 - IF, Q2 - JCR, 1.196 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/28/8/085004>*

Citácie:

1. [1.1] FU, Y.T. - WANG, Y.W. - XUE, W.B. - YANG, Q.Q. - YANG, L.H. - ZHAO, Y. - JIN, Z.J. *Electromagnetic Shielding Technique for No-Insulation Superconducting Rotor Windings in Electrical Aircraft Propulsion. In IEEE TRANSACTIONS ON TRANSPORTATION ELECTRIFICATION. ISSN 2332-7782, SEP 2023, vol. 9, no. 3, p. 3620-3635. Dostupné na:*

<https://doi.org/10.1109/TTE.2023.3239401>, Registrované v: WOS

2. [1.1] GöMöRY, F. - SOUC, J. - GODÁR, M. *Limitation of Current Transport in Coated Conductors: Statistical Fluctuations or Weak Spots?. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2022.3233805>, Registrované v: WOS*

3. [1.1] HU, C.Y. - WANG, Y.S. - ZHENG, Y.H. - LI, M.Y. - SHEN, Y.K. - WANG, J.C. *Electrothermal Analysis of Cable-in-Conduit Conductor Made from Quasi-*

Isotropic Strands. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, DEC 2023, vol. 33, no. 9. Dostupné na: <https://doi.org/10.1109/TASC.2023.3329702>, Registrované v: WOS

4. [1.1] LI, S.L. - LIU, B.Q. - ZHOU, P.B. - WANG, R.C. - WU, X.Y. - GONG, T.Y. - MA, G.T. *Design optimization of a stepped HTS magnet for electrodynamic suspension train. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acf73a>, Registrované v: WOS*

5. [1.1] SHI, Y.Y. - MA, T. - DAI, S.T. - JIN, H. - QIN, J.G. *Bending performance of the CORC cable with flexible interlocked stainless steel former. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acf903>, Registrované v: WOS*

6. [1.1] VASKURI, A. - CURÉ, B. - DUDAREV, A. - MENTINK, M. *Aluminium-Stabilized High-Temperature Superconducting Cable for Particle Detector Magnets. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3262770>, Registrované v: WOS*

7. [1.1] YUAN, S.Z. - DAI, S.T. - MA, T. - TAN, Y.L. *Critical Current Analysis of a Three-Slot Cable by Using of YBCO Tapes. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, MAR 2023, vol. 33, no. 2. Dostupné na: <https://doi.org/10.1109/TASC.2022.3224945>, Registrované v: WOS*

8. [1.1] ZHU, Y.P. - YANG, X.S. - HU, X.B. - LIU, J. - CAI, L.J. - XU, M. - ZHANG, S.N. - FENG, J.Q. - TAN, Y. - ZHAO, Y. *Analysis of critical current and hot spot behavior in Bi-2223 stacked-tape cable for fusion reactor. In FUSION ENGINEERING AND DESIGN. ISSN 0920-3796, JUL 2023, vol. 192. Dostupné na: <https://doi.org/10.1016/j.fusengdes.2023.113848>, Registrované v: WOS*

ADCA591 ZOLA, D. - POLICETTI, M. - ADESSO, M.G. - KOVÁČ, Pavol - MARTINI, L. - PACE, S. *Thermomagnetic instability and critical current density in MgB₂ monofilamentary tapes. In Physica C, 2008, vol. 468, p. 761-764. (2007: 1.079 - IF, Q3 - JCR, 0.555 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.*

Citácie:

1. [1.1] FRACASSO, M. - GÖMÖRY, F. - SOLOVYOV, M. - GERBALDO, R. - GHIGO, G. - LAVIANO, F. - SPARACIO, S. - TORSELLO, D. - GOZZELINO, L. *Numerical study on flux-jump occurrence in a cup-shaped MgB₂ bulk for magnetic shielding applications. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, APR 1 2023, vol. 36, no. 4. Dostupné na: <https://doi.org/10.1088/1361-6668/acbac5>, Registrované v: WOS*

2. [1.1] MOROZ, A. - RUDNEV, I. - KASHURNIKOV, V. - KHOKHORIN, S. - BATULIN, R. *Features of Magnetization and Vortex System of Magnesium Diboride. In JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM. ISSN 1557-1939, MAY 2023, vol. 36, no. 5, p. 1335-1342. Dostupné na: <https://doi.org/10.1007/s10948-023-06588-3>, Registrované v: WOS*

ADCA592 ŽEMLIČKA, M. - NEILINGER, Pavol - TRGALA, M. - REHÁK, M. - MANCA, Daniel - GRAJCAR, Miroslav - SZABÓ, Pavol - SAMUELY, Peter - GAŽI, Štefan - HÜBNER, U. - VINOKUROV, V. M. - ILICHEV, E.V. *Finite quasiparticle lifetime in disordered superconductors. In Physical Review B, 2015, vol. 92, no. 22, 224506. (2014: 3.736 - IF, Q1 - JCR, 0.123 - SJR, Q4 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.92.224506>*

Citácie:

1. [1.1] BEYDEDA, Cenk - NIKOLAOU, Konstantin - TOCHTERMANN, Marius - EBENSPERGER, Nikolaj G. - UNTEREINER, Gabriele - FARAG, Ahmed - KARL, Philipp - UBL, Monika - GIESSEN, Harald - DRESSEL, Martin - SCHEFFLER, Marc. Characterization of harmonic modes and parasitic resonances in multi-mode superconducting coplanar resonators. In *AIP ADVANCES*, 2023, vol. 13, no. 10, pp. Dostupné na: <https://doi.org/10.1063/5.0152461>, Registrované v: WOS

ADCB Vedecké práce v zahraničných karentovaných časopisoch – neimpaktovaných

ADCB01 BENKEL, T. - LAO, M. - LIU, Y. - PARDO, Enric - WOLFTÄDLER, S. - REIS, T. - GRILLI, F.**. T–A-formulation to model electrical machines with HTS coated conductor coils. In *IEEE Transactions on Applied Superconductivity*, 2020, vol. 30, no. 5205807. (2019: 0.419 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2020.2968950> (H2020 ASuMED)

Citácie:

- [1.1] AINSLIE, M.D. Numerical modelling of high-temperature superconducting dynamos: A review. In *SUPERCONDUCTIVITY*. MAR 2023, vol. 5. Dostupné na: <https://doi.org/10.1016/j.supcon.2022.100033>, Registrované v: WOS
- [1.1] CARVALHO, D.J.G. - DA SILVA, F.F. - FERNANDES, J.F.P. - BRANCO, P.J.D. Finite-element recipes for HTS-coated conductors and HTS tape topologies. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, OCT 1 2023, vol. 36, no. 10. Dostupné na: <https://doi.org/10.1088/1361-6668/acf4c3>, Registrované v: WOS
- [1.1] DOS SANTOS, G. - SANTOS, B.M.O. - SASS, F. - MARTINS, F.G.D. - SOTELO, G.G. - DE ANDRADE, R Jr. J-A formulation: A finite element methodology for simulating superconducting devices. In *SUPERCONDUCTIVITY*. JUN 2023, vol. 6. Dostupné na: <https://doi.org/10.1016/j.supcon.2023.100049>, Registrované v: WOS
- [1.1] GAO, Y.F. - NAKAMURA, T. - DONG, T.H. Design and Performance Analysis of 25 kW Class HTS Induction/Synchronous Motor With Self-Organizing Method for Transportation Applications. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3268142>, Registrované v: WOS
- [1.1] HARTMANN, C. - MELLERUD, R. - NOLAND, J.K. - NILSSEN, R. A Static FEA Framework for Fast Analysis of HTS Armature Windings in AC Superconducting SMPM Machines. In *IEEE TRANSACTIONS ON ENERGY CONVERSION*. ISSN 0885-8969, SEP 2023, vol. 38, no. 3, p. 2191-2201. Dostupné na: <https://doi.org/10.1109/TEC.2023.3270775>, Registrované v: WOS
- [1.1] KWON, D. - KIM, B. - CHOI, J. - JEONG, S. - KIM, S. Thermal Design of the Conduction-Cooled High Temperature Superconducting Magnet for Pulsating Magnetic Field. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3241831>, Registrované v: WOS
- [1.1] MELLERUD, R. - HARTMANN, C. - KLOP, C.L. - AUSTAD, S. - NOLAND, J.K. Design of a Power-Dense Aviation Motor With a Low-Loss Superconducting Slotted Armature. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, NOV 2023, vol. 33, no. 8. Dostupné na: <https://doi.org/10.1109/TASC.2023.3316192>, Registrované v: WOS
- [1.1] RIVA, N. - HALBACH, A. - LYLY, M. - MESSE, C. - RUUSKANEN, J. -

LAHTINEN, V. H- empty set Formulation in Sparselizard Combined With Domain Decomposition Methods for Modeling Superconducting Tapes, Stacks, and Twisted Wires. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3240389>, Registrované v: WOS

9. [1.1] WANG, Y. - SONG, W.J. - YAZDANI-ASRAMI, M. - FANG, J. A Fast Numerical Modeling Approach Based on Boundary Field Method for Calculating AC Losses in Superconducting Motors. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, APR 2023, vol. 33, no. 3. Dostupné na: <https://doi.org/10.1109/TASC.2023.3245039>, Registrované v: WOS

10. [1.1] ZHOU, X.Y. - ZOU, S.N. - CHEN, W. - SONG, S.J. - CHEN, Z.J. - XU, J.J. - YAN, M. Conceptual design, AC loss calculation, and optimization of an airborne fully high temperature superconducting generator. In PHYSICA C- SUPERCONDUCTIVITY AND ITS APPLICATIONS. ISSN 0921-4534, FEB 15 2023, vol. 605. Dostupné na: <https://doi.org/10.1016/j.physc.2022.1354207>, Registrované v: WOS

11. [1.2] PAN, Yuanhang - YANG, Jiangtao - LI, Qing - LUO, Xuezhong - HUANG, Shoudao - MA, Jun. Optimal Design of a High Temperature Superconducting Homopolar Inductor Machine. In 2023 26th International Conference on Electrical Machines and Systems, ICEMS 2023, 2023-01-01, pp. 3920-3925. Dostupné na: <https://doi.org/10.1109/ICEMS59686.2023.10345315>, Registrované v: SCOPUS

ADCB02 GREGUŠOVÁ, Dagmar - BERNÁT, J. - DRŽÍK, Milan - MARSO, M. - UHEREK, F. - NOVÁK, Jozef - KORDOŠ, Peter. Influence of passivation induced stress on the performance of AlGaIn/GaN HEMTs. In Physica Status Solidi c, 2005, vol. 2, p. 2619-2622. (2005 - Current Contents).

Citácie:

1. [1.1] BHARDWAJ, N. - UPADHYAY, B.B. - PARVEZ, B. - POHEKAR, P. - YADAV, Y. - SAHU, A. - PATIL, M. - BASAK, S. - SAHU, J. - SABIHA, F.S.A. - GANGULY, S. - SAHA, D. Improved RF-DC characteristics and reduced gate leakage in GaN MOS-HEMTs using thermally grown Nb2O5 gate dielectric. In PHYSICA SCRIPTA. ISSN 0031-8949, JAN 1 2023, vol. 98, no. 1. Dostupné na: <https://doi.org/10.1088/1402-4896/aca438>, Registrované v: WOS

ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných

ADDA01 BERONSKÁ, Nad'a - IŽDINSKÝ, Karol - ŠTEFÁNIK, Pavol - KÚDELA, Stanislav, Jr. - SIMANČÍK, František - VÁVRA, Ivo - KRIŽANOVÁ, Zuzana. Structure and thermal expansion behaviour of Al/C composites reinforced with unidirectionally aligned continuous high modulus C fibres. In Kovové materiály, 2011, vol. 49, no. 6, pp. 427-436. (2010: 0.471 - IF, Q2 - JCR, 0.295 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents, SCOPUS). ISSN 0023-432X. Dostupné na: <https://doi.org/10.4149/km-2011-6-427>

Citácie:

1. [1.1] BUCHANAN, K.E. - SGOBBA, S. - CELUCH, M.D. - GOMEZ, F.P. - ONNELA, A. - ROSE, P. - POSTEMA, H. - PENTELLA, M. - LACOMBE, G. - THOMAS, B. - DE LANGLADE, R. - PAQUIN, Y. Assessment of Two Advanced Aluminium-Based Metal Matrix Composites for Application to High Energy Physics Detectors. In MATERIALS. JAN 2023, vol. 16, no. 1. Dostupné na: <https://doi.org/10.3390/ma16010268>, Registrované v: WOS

ADDA02 HRIVNÁK, Ľubomír. New relations for band edge effects in lattice matched heterostructures. In Acta Physica Slovaca, 1988, vol. 38, p. 346-357.

Citácie:

1. [1.1] WRÓBEL, J. - UMANA-MEMBRENO, G.A. - BOGUSKI, J. - ZLOTNIK, S. - KOWALEWSKI, A. - MOSZCZYNSKI, P. - ANTOSZEWSKI, J. - FARAONE, L. - WRÓBEL, J. InAs light-to-heavy hole effective mass ratio determined experimentally from mobility spectrum analysis. In *OPTO-ELECTRONICS REVIEW*. ISSN 1230-3402, 2023, vol. 31, SI. Dostupné na: <https://doi.org/10.24425/opelre.2023.144567>, Registrované v: WOS

ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

ADEB01 BLAGOEV, B. - MATEEV, E. - ŠTRBÍK, Vladimír - NURGALIEV, T. - USPENSKAYA, L. Magnetron sputtering of polycrystalline LSMO/YBCO structures on sapphire substrates. In *Journal of Physics: Conference Series* : 16th International Summer School on Vacuum, Electron, and Ion Technologies (VEIT 2009), 2010, vol. 223, art. no. 012015. (2009: 0.259 - SJR, Q3 - SJR). (2010 - WOS, SCOPUS). ISSN 1742-6588. Dostupné na: <https://doi.org/10.1088/1742-6596/223/1/012015>

Citácie:

1. [1.1] LIU, M.N. - CAO, Z.L. - WANG, X.F. - MAO, S.S. - QIN, J.J. - YANG, Y.S. - RAO, Z.W. - ZHAO, Y. - SUN, B. Perovskite material-based memristors for applications in information processing and artificial intelligence. In *JOURNAL OF MATERIALS CHEMISTRY C*. ISSN 2050-7526, OCT 12 2023, vol. 11, no. 39, p. 13167-13188. Dostupné na: <https://doi.org/10.1039/d3tc02309e>, Registrované v: WOS

ADEB02 FRÖHLICH, Karol - HUDEC, Boris - HUŠEKOVÁ, Kristína - AARIK, J. - TARRE, A. - KASIKOV, A. - RAMMULA, R. - VINCZE, A. Low equivalent oxide thickness TiO₂ based capacitors for DRAM applications. In *ECS Transactions*, 2011, vol. 41, no. 2, p. 73-77. (2010: 0.249 - SJR, Q2 - SJR). (2011 - WOS). ISSN 1938-5862.

Citácie:

1. [1.1] JUNG, M. - GADDAM, V. - JEON, S. A review on morphotropic phase boundary in fluorite-structure hafnia towards DRAM technology. In *NANO CONVERGENCE*. ISSN 2196-5404, OCT 1 2022, vol. 9, no. 1. Dostupné na: <https://doi.org/10.1186/s40580-022-00333-7>, Registrované v: WOS
2. [1.1] KASHYAP, H. - BENHAM, M. - SPIEGELMAN, J. - KUMMEL, A. Ultra High-k HfZrO₄ Thin Films Grown by Atomic Layer Deposition using Metal-Organic and Brute HOOH precursors. In *2023 INTERNATIONAL VLSI SYMPOSIUM ON TECHNOLOGY, SYSTEMS AND APPLICATIONS, VLSI-TSA/VLSI-DAT*. 2023. Dostupné na: <https://doi.org/10.1109/VLSI-TSA/VLSI-DAT57221.2023.10134407>, Registrované v: WOS
3. [1.1] LI, Y.B. - TANG, X.Y. - XU, G.W. - LI, H.X. - HE, S. - HU, X.Q. - SU, X.S. - BAI, W.P. - LU, D. - LONG, S.B. The Effects of Postdeposition Anneal and Postmetallization Anneal on Electrical Properties of TiN/ZrO₂/TiN Capacitors. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. ISSN 0018-9383, JAN 2023, vol. 70, no. 1, p. 59-64. Dostupné na: <https://doi.org/10.1109/TED.2022.3223327>, Registrované v: WOS

ADEB03 HURAN, Jozef - HOTOVÝ, I. - BALALYKIN, Nikolay I. - STARIKOV, A.M. Physical and bonding characteristics of N-doped hydrogenated amorphous silicon carbide films grown by PECVD and annealed by pulsed electron beam. In *Journal of Physics: Conference Series*, 2007, vol. 61, p. 430-431. (2006: 0.272 - SJR, Q3 - SJR). ISSN 1742-6588.

Citácie:

1. [1.1] WANG, C. - YOU, T.C. - ZHANG, Y.F. - SONG, M. - HUANG, Z.Z. - XIA, W.D. *Synthesis of N-doped SiC nano-powders with effective microwave absorption and enhanced photoluminescence. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, JAN 15 2023, vol. 932. Dostupné na: <https://doi.org/10.1016/j.jallcom.2022.167699>, Registrované v: WOS*
- ADEB04 HUŠEKOVÁ, Kristína - JURKOVIC, M. - ČIČO, Karol - MACHAJDÍK, Daniel - DOBROČKA, Edmund - LUPTÁK, Roman - MACKOVÁ, A. - FRÖHLICH, Karol. Preparation of high permittivity GdScO₃ films by liquid injection MOCVD. In ECS Transactions, 2009, vol. 25, p. 1061-1064. (2008: 0.254 - SJR, Q2 - SJR). (2009 - WOS). ISSN 1938-5862.
Citácie:
1. [1.1] KACHHAP, S. - GIRI, N.K. - SHRUTI - PRAKASH, R. - SINGH, S.K. *Photon upconversion-based non-invasive temperature sensing using Gd_{1-x}-yYbxEr yScO₃ perovskite nanocrystals. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, MAR 5 2023, vol. 936. Dostupné na: <https://doi.org/10.1016/j.jallcom.2022.168192>, Registrované v: WOS*
- ADEB05 JAKOVENKO, J. - LALINSKÝ, Tibor - DRŽÍK, Milan - IVANOVA, M. - VANKO, Gabriel - HUSÁK, M. GaN, GaAs and silicon based micromechanical free standing hot plates for gas sensing. In Procedia Chemistry, 2009, vol. 1, p. 804-807. (2009 - SCOPUS). ISSN 1876-6196.
Citácie:
1. [1.1] GUO, X.Y. - GOSALVEZ, M.A. - XING, Y. - CHEN, Y. *Etch and growth rates of GaN for surface orientations in the 0001 crystallographic zone: Step flow and terrace erosion/filling via the Continuous Cellular Automaton. In MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING. ISSN 1369-8001, JAN 2023, vol. 153. Dostupné na: <https://doi.org/10.1016/j.mssp.2022.107173>, Registrované v: WOS*
- ADEB06 KUZMÍK, Ján - BYCHIKHIN, S. - PICHONAT, E. - GAQUIRE, Ch. - MORWAN, E. - KOHN, E. - TEYSSIER, J.-P. - POGANY, D. Self-heating phenomena in high-power III-N transistors and new thermal characterization methods developed within EU project TARGET. In International Journal of Microwave and Wireless Technologies, 2009, vol. 1, p. 153-160. ISSN 1759-0787.
Citácie:
1. [1.1] LIU, T.T. - ZHENG, K.W. - TAO, T. - HU, W.X. - CHEN, K. - ZHI, T. - YE, Y.C. - XIE, Z.L. - YAN, Y. - LIU, B. - ZHANG, R. *A Simulation of Thermal Management Using a Diamond Substrate with Nanostructures. In MICROMACHINES. AUG 2023, vol. 14, no. 8. Dostupné na: <https://doi.org/10.3390/mi14081559>, Registrované v: WOS*
- ADEB07 MITRÓOVÁ, Zuzana - KONERACKÁ, Martina - TOMAŠOVIČOVÁ, Natália - TIMKO, Milan - JADZYN, Jan - VÁVRA, Ivo - ÉBER, Nándor - FODOR-CSORBA, Katalin - TÓTH-KATONA, Tibor - VAJDA, Anikó - KOPČANSKÝ, Peter. Structural transitions in nematic liquid crystals doped with magnetite functionalized single walled carbon nanotubes. In Physics Procedia, 2010, vol. 9, p. 41-44. (2010 - WOS, SCOPUS). ISSN 1875-3892. Dostupné na: <https://doi.org/10.1016/j.phpro.2010.11.011> (ICMF 12 : International Conference on Magnetic Fluids)
Citácie:
1. [1.1] PETROV, D.A. *Liquid-crystal composites of carbon nanotubes in a magnetic field: Bridging continuum theory and a molecular-statistical approach. In PHYSICAL REVIEW E. ISSN 2470-0045, MAY 17 2023, vol. 107, no. 5. Dostupné na: <https://doi.org/10.1103/PhysRevE.107.054701>, Registrované v: WOS*

ADEB08 NURGALIEV, T. - MATEEV, E. - BLAGOEV, B. - MITEVA, S. - NESHKOV, L. - ŠTRBÍK, Vladimír - USPENSKAYA, L. - BEŇAČKA, Štefan - CHROMIK, Štefan - NEDKOV, I. YBCO and LSMO nano-films and sandwiches prepared by magnetron sputtering. In Journal of Physics: Conference Series, 2010, vol. 234, art. no. 012029. (2009: 0.259 - SJR, Q3 - SJR). (2010 - WOS, SCOPUS). ISSN 1742-6588. Dostupné na: <https://doi.org/10.1088/1742-6596/234/1/012029>

Citácie:

1. [1.1] WANG, Q.C. - BOUBECHÉ, M. - XIA, Y.D. - ZHAO, R.P. - OU, K. - YANG, J.T. - XIN, J.J. - WANG, W. - JIN, K. - TAO, B.W. MOCVD deposited double-sided CeO₂ buffer layer for YBCO superconducting film grow on R-plane Al₂O₃ substrate. In PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS. ISSN 0921-4534, DEC 15 2023, vol. 615. Dostupné na: <https://doi.org/10.1016/j.physc.2023.1354392>, Registrované v: WOS

ADEB09 RÝGER, Ivan - VANKO, Gabriel - LALINSKÝ, Tibor - VALLO, Martin - TOMÁŠKA, M. - RITOMSKÝ, Adrian. AlGa_N/Ga_N based SAW-HEMT devices for chemical gas sensors operating in GHz range. In Procedia Engineering : Proc. Eurosensors XXV, 2011, vol. 25, p. 1101-1104. (2011 - SCOPUS, WOS). ISSN 1877-7058. Dostupné na: <https://doi.org/10.1016/j.proeng.2011.12.271>

Citácie:

1. [1.1] HORTA, I.M. - DAMASCENO, B.S. - OLIVEIRA, R.S.D. - PEREIRA, A.L.D. - MASSI, M. - SOBRINHO, A.S.D. - LEITE, D.M.G. AlGa_N films grown by reactive magnetron sputtering on glass substrates with different Al content. In SURFACES AND INTERFACES. ISSN 2468-0230, AUG 2023, vol. 40. Dostupné na: <https://doi.org/10.1016/j.surfin.2023.103023>, Registrované v: WOS

ADFA Vedecké práce v ostatných domácich časopisoch – impaktovaných

ADFA01 FRÖHLICH, Karol - FEDOR, Ján - KOSTIČ, Ivan - MAŇKA, Ján - BALLO, P. Gadolinium scandate: next candidate for alternative gate dielectric in CMOS technology? In Journal of Electrical Engineering, 2011, vol. 62, p. 54-56. (2010: 0.278 - IF, Q4 - JCR, 0.191 - SJR, Q3 - SJR). (2011 - INSPEC, SCOPUS). ISSN 1335-3632.

Citácie:

1. [1.1] KACHHAP, Santosh - GIRI, Neeraj Kumar - SHRUTI - PRAKASH, Rajiv - SINGH, S. K. Photon upconversion-based non-invasive temperature sensing using Gd_{1-x}Y_xEr_yScO₃ perovskite nanocrystals. In Journal of Alloys and Compounds, 2023-03-05, 936, pp. ISSN 09258388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2022.168192>, Registrované v: WOS

ADFA02 ŠTRBÍK, Vladimír - BEŇAČKA, Štefan - GAŽI, Štefan - ŠMATKO, Vasilij - CHROMIK, Štefan - LAURENČÍKOVÁ, Agáta - VÁVRA, Ivo. Effect of gallium focused ion beam irradiation on properties of YBa₂Cu₃O_x/La_{0,67}Sr_{0,33}MnO₃ heterostructures. In Journal of Electrical Engineering, 2011, vol. 62, p. 109-113. (2010: 0.278 - IF, Q4 - JCR, 0.191 - SJR, Q3 - SJR). (2011 - INSPEC, SCOPUS). ISSN 1335-3632. Dostupné na: <https://doi.org/10.2478/v10187-011-0018-y>

Citácie:

1. [1.1] POPOVIC, Z. - MIRANOVIC, P. Current-voltage characteristics and conductance spectra in s-wave or d-wave superconductor/ferromagnet/superconductor heterojunctions: role of Andreev reflection. In EUROPEAN PHYSICAL JOURNAL PLUS. ISSN 2190-5444, AUG 29 2023, vol. 138, no. 8. Dostupné na: <https://doi.org/10.1140/epjp/s13360-023-04394-3>, Registrované v: WOS

ADFB Vedecké práce v ostatných domácich časopisoch – neimpaktovaných

- ADFB01 ČERVENÁK, Ján - ŽIVČÁKOVÁ, A. - BUCH, Július. Structures and electrical properties of InSb thin films prepared by plasmatic sputtering. In Czechoslovak journal of physics, 1970, b Vol. 20, p. 84. ISSN 0011-4626.
Citácie:
1. [1.1] WANG, K.H. - ZHANG, M. - ZENG, T.X. - HE, F. - WEN, W. Lattice-matched heteroepitaxial preparation of InSb/CdTe on Si (111) substrate by magnetron sputtering. In VACUUM. ISSN 0042-207X, JUN 2023, vol. 212. Dostupné na: <https://doi.org/10.1016/j.vacuum.2023.112010>, Registrované v: WOS
- ADFB02 PUDIŠ, D. - ŠKRINIAROVÁ, Jaroslava - MARTINČEK, I. - KOVÁČ, Jaroslav - TARJÁNYI, N. - HAŠČÍK, Štefan. Periodic structures patterned on metal and III-V compound surfaces using two-beam interference method. In Journal of Electrical Engineering, 2009, vol. 60, p. 166-169. (2008: 0.192 - SJR, Q3 - SJR). (2009 - INSPEC, SCOPUS). ISSN 1335-3632.
Citácie:
1. [1.1] LEVONYAN, L. - MANUKYAN, H. Determination of the superlattice structure factor by X-ray diffraction using a temperature gradient. In ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES. ISSN 2053-2733, JAN 2023, vol. 79, 1, p. 14-19. Dostupné na: <https://doi.org/10.1107/S2053273322009925>, Registrované v: WOS

ADMA Vedecké práce v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

- ADMA01 GRUSZECKI, P.** - BANERJEE, C. - MRUCZKIEWICZ, Michal - HELLWIG, O. - BARMAN, A. - KRAWCZYK, M. The influence of the internal domain wall structure on spin wave band structure in periodic magnetic stripe domain patterns. In Solid State Physics : advances in Research and Applications, 2019, vol. 70, p. 79-132. (2018: 4.500 - IF, Q1 - JCR). ISSN 0081-1947. Dostupné na: <https://doi.org/10.1016/bs.ssp.2019.09.003>
Citácie:
1. [1.1] YOON, S. Reducing Magnetic Anisotropy Variation of Permalloy Thin Films in the dc-Magnetron Sputtering. In JOURNAL OF MAGNETICS. ISSN 1226-1750, SEP 2023, vol. 28, no. 3, p. 286-289. Dostupné na: <https://doi.org/10.4283/JMAG.2023.28.3.286>, Registrované v: WOS
- ADMA02 GRUSZECKI, P.** - BANERJEE, C. - MRUCZKIEWICZ, Michal - HELLWIG, O. - BARMAN, A. - KRAWCZYK, M. The influence of the internal domain wall structure on spin wave band structure in periodic magnetic stripe domain patterns. In Solid State Physics : advances in Research and Applications, 2021, vol. 72, p. 29-82. (2020: 5.375 - IF, Q2 - JCR). ISSN 0081-1947. Dostupné na: <https://doi.org/10.1016/bs.ssp.2021.08.001>
Citácie:
1. [1.1] YANG, J.F. - ZHU, C. - DENG, Y. - TANG, B.J. - LIU, Z. Magnetism of two-dimensional chromium tellurides. In ISCIENCE. MAY 19 2023, vol. 26, no. 5. Dostupné na: <https://doi.org/10.1016/j.isci.2023.106567>, Registrované v: WOS
- ADMA03 MRUCZKIEWICZ, Michal** - GRUSZECKI, P. The 2021 roadmap for noncollinear magnonics. In Solid State Physics : advances in Research and Applications, 2021, vol. 72, p. 1-27. (2020: 5.375 - IF, Q2 - JCR). ISSN 0081-1947. Dostupné na: <https://doi.org/10.1016/bs.ssp.2021.09.001>
Citácie:

1. [1.1] LIM, J. - GARG, A. - KETTERSON, J.B. Suhl instabilities in nanoscopic spheroids. In *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*. ISSN 0304-8853, DEC 1 2023, vol. 587. Dostupné na:

<https://doi.org/10.1016/j.jmmm.2023.171232>, Registrované v: WOS

ADMA04

TÓBIK, Jaroslav - CAMBEL, Vladimír - KARAPETROV, Goran. Asymmetry in time evolution of magnetization in magnetic nanostructures. In *Scientific Reports*, 2015, vol. 5, 012301. (2014: 5.578 - IF, Q1 - JCR, 2.163 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, Scopus, WOS). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/srep12301>

Citácie:

1. [1.1] MAKARTSOU, U. - MOALIC, M. - ZELENT, M. - MRUCZKIEWICZ, M. - KRAWCZYK, M. Control of vortex chirality in a symmetric ferromagnetic ring using a ferromagnetic nanoelement. In *NANOSCALE*. ISSN 2040-3364, AUG 10 2023, vol. 15, no. 31, p. 13094-13101. Dostupné na:

<https://doi.org/10.1039/d3nr00582h>, Registrované v: WOS

2. [1.1] MARY, A. - EDATHUMKANDY, Y.K. - THOMAS, S. Asymmetry-driven reconfigurability of magnetic vortices in hemispherical shells. In *PHYSICA SCRIPTA*. ISSN 0031-8949, APR 1 2023, vol. 98, no. 4. Dostupné na:

<https://doi.org/10.1088/1402-4896/acbff0>, Registrované v: WOS

ADMB Vedecké práce v zahraničných neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADMB01

AMARO, N. - ŠOUČ, Ján - VOJENČIAK, Michal - MURTA-PINA, J. - MARTINS, J. - CEBALLOS, J.M. - GÖMÖRY, Fedor. AC losses and material degradation effects in a superconducting tape for SMES applications. In *IFIP Advances in Information and Communication Technology*, 2014, vol. 423, p. 417-424. (2013: 0.186 - SJR, Q3 - SJR). (2014 - SCOPUS). ISSN 1868-4238. Dostupné na: https://doi.org/10.1007/978-3-642-54734-8_46

Citácie:

1. [1.1] HAJDASZ, S. - KEMPSKI, A. - SOLAK, K. - MARC, M. - RUSINSKI, J. - SZCZESNIAK, P. Critical Current Degradation in HTS Tapes for Superconducting Fault Current Limiter under Repeated Overcurrent. In *APPLIED SCIENCES-BASEL*. APR 2023, vol. 13, no. 7. Dostupné na:

<https://doi.org/10.3390/app13074323>, Registrované v: WOS

2. [1.2] ENACHE, Dan - DUMITRU, George - DOBRIN, Ion - GUȚU, Mihai. A Measuring System for HTS Wires and Coils Properties at Low Temperatures. In *EEA Electrotehnica, Electronica, Automatica*, 2023-01-01, 71, 3, pp. 3-11. ISSN 15825175. Dostupné na: <https://doi.org/10.46904/eea.23.71.3.1108001>, Registrované v: SCOPUS

ADMB02

DZUBA, Jaroslav - VANKO, Gabriel - BABCHENKO, Oleg - LALINSKÝ, Tibor - HORVAT, František - SZARVAS, M. - KOVÁČ, Tomáš - HUČKO, B. Strain induced response of AlGaIn/GaN high electron mobility transistor located on cantilever and membrane. In *ASDAM 2016 : the 11th International Conference on Advanced Semiconductor Devices and Microsystems*. - IEEE, 2016, p. 227-230. ISBN 978-1-5090-3081-1. Dostupné na:

<https://doi.org/10.1109/ASDAM.2016.7805936>

Citácie:

1. [1.1] WANG, L. - CHAI, C.C. - ZHAO, T.L. - LI, F.X. - YANG, Y.T. Novel electromechanical coupling theory of GaN HEMT structure under mechanical clamping. In *EPL*. ISSN 0295-5075, FEB 2023, vol. 141, no. 4. Dostupné na:

<https://doi.org/10.1209/0295-5075/acb733>, Registrované v: WOS

GRILLI, F.** - BENKEL, T. - HÄNISCH, J. - LAO, M. - REIS, T. - BERBERICH, E. - WOLFTÄDLER, S. - SCHNEIDER, C. M. - MILLER, P. - PALMER, C. - GLOWACKI, B.A. - CLIMENTE-ALARCON, V. - SMARA, A. - TOMKOW, L. - TEIGELKÖTTER, J. - STOCK, Alex - BUDEL, Julius - JEUNESSE, L. - STAEMPFLIN, M. - DELAUTRE, G. - ZIMMERMANN, Bernhard - VAN DER WOUDE, R. - PEREZ, A. - SAMOILENKOV, S. - MOLODYK, A. - PARDO, Enric - KAPOLKA, Milan - LI, S. - DADHICH, Anang. Superconducting motors for aircraft propulsion: the advanced superconducting motor experimental demonstrator project. In *Journal of Physics: Conference Series*, 2020, vol. 1590, no. 012051. (2019: 0.227 - SJR, Q3 - SJR). ISSN 1742-6588. Dostupné na: <https://doi.org/10.1088/1742-6596/1590/1/012051> (H2020 ASuMED)

Citácie:

1. [1.1] ALVAREZ, P. - SATRÚSTEGUI, M. - SCHEIFLER, S.G. - BASTARRARENA, J. - LÓPEZ, L.G. - MARTINEZ-ITURRALDE, M. *Design of a HTS 2 MW Electric Motor for Single-Aisle Regional Aircraft*. In *IEEE ACCESS*. ISSN 2169-3536, 2023, vol. 11, p. 144325-144336. Dostupné na: <https://doi.org/10.1109/ACCESS.2023.3343816>, Registrované v: WOS
2. [1.1] CHOW, C.C.T. - AINSLIE, M.D. - CHAU, K.T. *High temperature superconducting rotating electrical machines: An overview*. In *ENERGY REPORTS*. ISSN 2352-4847, DEC 2023, vol. 9, p. 1124-1156. Dostupné na: <https://doi.org/10.1016/j.egy.2022.11.173>, Registrované v: WOS
3. [1.1] DESIKAN, A. - DE BRUYN, B.J.H. - KROP, D.C.J. - LOMONOVA, E.A. *Modeling and Analysis of HTS Linear Motors in High-Dynamic Applications*. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3262625>, Registrované v: WOS
4. [1.1] KOSHY, B. - SUN, Y.M. - BADCOCK, R.A. - MALLETT, B.P.P. - JIANG, Z.A. *Numerical Analysis of Dynamic Resistance and Total Loss in REBCO-Coated Conductors at Low Temperature Under High Perpendicular AC Magnetic Fields*. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, SEP 2023, vol. 33, no. 6. Dostupné na: <https://doi.org/10.1109/TASC.2023.3274415>, Registrované v: WOS
5. [1.1] LI, W.X. - YANG, T.H. - LI, C. - LI, G.Y. - XIN, Y. *Exploration on the application of a new type of superconducting energy storage for regenerative braking in urban rail transit*. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acf902>, Registrované v: WOS
6. [1.1] LIU, G.J. - ZHANG, G.M. - LIU, G.L. - WANG, H.A. - JING, L.W. *Transport AC Loss Characteristic of YBaCuO Coils With and Without Magnetic Substrate Up To 10 kHz*. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, JAN 2023, vol. 33, no. 1. Dostupné na: <https://doi.org/10.1109/TASC.2022.3221157>, Registrované v: WOS
7. [1.1] MELLERUD, R. - HARTMANN, C. - KLOP, C.L. - AUSTAD, S. - NOLAND, J.K. *Design of a Power-Dense Aviation Motor With a Low-Loss Superconducting Slotted Armature*. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, NOV 2023, vol. 33, no. 8. Dostupné na: <https://doi.org/10.1109/TASC.2023.3316192>, Registrované v: WOS
8. [1.1] MIURA, S. - KOBUN, A. - MASUDA, Y. - MIYAZAKI, H. - KAWAGOE, A. - SASA, H. - YOSHIDA, K. - SATO, S. - IWAKUMA, M. *Development and assessment of simplified analytical method for current distribution among*

- REBa2Cu3O_y parallel conductors in armature windings for fully superconducting rotating machines. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, JUN 1 2023, vol. 36, no. 6. Dostupné na: <https://doi.org/10.1088/1361-6668/acca4f>, Registrované v: WOS*
9. [1.1] MIURA, S. - KOBUN, A. - MASUDA, Y. - NAKAMURA, K. - MIYAZAKI, H. - KAWAGOE, A. - SASA, H. - YOSHIDA, K. - SATO, S. - IWAKUMA, M. *Current Sharing Among Transposed Three-Parallel REBa2Cu3O_y Tapes in Single-Phase Armature Coils. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, AUG 2023, vol. 33, no. 5. Dostupné na: <https://doi.org/10.1109/TASC.2023.3241824>, Registrované v: WOS*
10. [1.1] WADSWORTH, A. - THRIMAWITHANA, D.J. - ZHAO, L. - NEUBURGER, M. - OLIVER, R.A. - WALLIS, D.J. *GaN-based cryogenic temperature power electronics for superconducting motors in cryo-electric aircraft. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, SEP 1 2023, vol. 36, no. 9. Dostupné na: <https://doi.org/10.1088/1361-6668/ace5e7>, Registrované v: WOS*
11. [1.1] WANG, Q. - ZHANG, H.Y. - HAO, L.N. - HU, J.T. - WEI, H.G.N. - PATEL, I. - SHAH, A.D. - COOMBS, T. *Magnetisation and demagnetisation of trapped field stacks in a superconducting machine for electric aircraft. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2023, vol. 36, no. 11. Dostupné na: <https://doi.org/10.1088/1361-6668/acfcdf>, Registrované v: WOS*
12. [1.1] WANG, R. - LIU, Y.Z. - CAO, J.W. - LI, L.Y. - LIU, X.K. - XUE, H.D. - ARNDT, T. *Preliminary design optimization of a fully superconducting motor based on disk-up-down-assembly magnets. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, MAY 1 2023, vol. 36, no. 5. Dostupné na: <https://doi.org/10.1088/1361-6668/acc822>, Registrované v: WOS*
13. [1.1] WANG, Y. - FANG, J. - SOGABE, Y. - BADCOCK, R.A. - STOREY, J.G. - JIANG, Z.A. *Numerical Simulations on AC Loss of the REBCO Tape Under Rotating Magnetic Field. In IEEE ACCESS. ISSN 2169-3536, 2023, vol. 11, p. 138052-138063. Dostupné na: <https://doi.org/10.1109/ACCESS.2023.3340731>, Registrované v: WOS*
14. [1.1] ZHUKOV, V.E. - MEZENTSEVA, N.N. - PAVLENKO, A.N. *Enhancement of Heat Transfer during Nitrogen Boiling on Capillary-Porous Coatings under Conditions of Intense Mass Forces at High-Speed Rotation of Cryostat. In JOURNAL OF ENGINEERING THERMOPHYSICS. ISSN 1810-2328, JUN 2023, vol. 32, no. 2, p. 181-195. Dostupné na: <https://doi.org/10.1134/S1810232823020017>, Registrované v: WOS*
15. [1.2] CHENG, Yi - HAO, Shengqiao - LI, Weiyong - LI, Dawei - HUANG, Lihao - WANG, Cong. *Design and Critical Current Testing of Superconducting Rotor Coils for Megawatt Aviation Motor. In 2023 26th International Conference on Electrical Machines and Systems, ICEMS 2023, 2023-01-01, pp. 3750-3753. Dostupné na: <https://doi.org/10.1109/ICEMS59686.2023.10345377>, Registrované v: SCOPUS*
16. [1.2] SONG, Dongbin - YAN, Juzhuang - YANG, Wenjiang - BAI, Mingliang - LIU, Rujing - WANG, Shaopeng - LIU, Yu - TIAN, Aimei. *Technology development of high temperature superconducting machine for electric aviation. In Hangkong Xuebao/Acta Aeronautica et Astronautica Sinica, 2023-05-15, 44, 9, pp. ISSN 10006893. Dostupné na: <https://doi.org/10.7527/S1000-6893.2022.27469>, Registrované v: SCOPUS*

ADMB04

HALIM, J.** - PALISAITIS, J. - LU, j. - THÖRNBERG, J. - MOON, E.J. - PRECNER, Marián - EKLUND, P. - PERSSON, P.O.A. - BARSOU, M.W. -

ROSEN, J. Synthesis of two-dimensional Nb_{1.33}C (MXene) with randomly distributed vacancies by etching of the quaternary solid solution (Nb_{2/3}Sc_{1/3})₂AlC MAX phase. In *ACS Applied Nano Materials*, 2018, vol. 1, iss. 6, p. 2455-2460. (2018 - MEDLINE). ISSN 2574-0970. Dostupné na: <https://doi.org/10.1021/acsnm.8b00332>

Citácie:

1. [1.1] AJMAL, Z. - QADEER, A. - KHAN, U. - HUSSAIN, M.B. - IRFAN, M. - MEHMOOD, R. - ABID, M. - DJELLABI, R. - KUMAR, A. - ALI, H. - KALAM, A. - AL-SEHEMI, A.G. - ALGARNI, H. - AL-HADEETHI, Y. - QIAN, J. - HAYAT, A. - ZENG, H.Q. *Current progresses in two-dimensional MXene-based framework: prospects from superficial synthesis to energy conversion and storage applications. In MATERIALS TODAY CHEMISTRY. ISSN 2468-5194, JAN 2023, vol. 27. Dostupné na: <https://doi.org/10.1016/j.mtchem.2022.101238>, Registrované v: WOS*
2. [1.1] AKHTER, R. - MAKTEDAR, S.S. *MXenes: A comprehensive review of synthesis, properties, and progress in supercapacitor applications. In JOURNAL OF MATERIOMICS. ISSN 2352-8478, NOV 2023, vol. 9, no. 6, p. 1196-1241. Dostupné na: <https://doi.org/10.1016/j.jmat.2023.08.011>, Registrované v: WOS*
3. [1.1] ARJUN, A.M. - ANKITHA, M. - SHABANA, N. - VAISHAG, P.V. - SHAMSHEERA, F. - MUFEEEDA, M. - RASHEED, P.A. *An overview on surface modification of niobium MXenes for diagnostic and prognostic applications. In FLATCHEM. ISSN 2452-2627, SEP 2023, vol. 41. Dostupné na: <https://doi.org/10.1016/j.flatc.2023.100538>, Registrované v: WOS*
4. [1.1] AYODHYA, D. *A review of recent progress in 2D MXenes: Synthesis, properties, and applications. In DIAMOND AND RELATED MATERIALS. ISSN 0925-9635, FEB 2023, vol. 132. Dostupné na: <https://doi.org/10.1016/j.diamond.2022.109634>, Registrované v: WOS*
5. [1.1] CHOURASIA, N.K. - RAWAT, A. - CHOURASIA, R.K. - SINGH, H. - KULRIYA, R.K. - SINGH, V. - KULRIYA, P.K. *Unveiling the potential of Ti₃C₂T_x MXene for gas sensing: recent developments and future perspectives. In MATERIALS ADVANCES. NOV 27 2023, vol. 4, no. 23, p. 5948-5973. Dostupné na: <https://doi.org/10.1039/d3ma00631j>, Registrované v: WOS*
6. [1.1] IQBAL, A. - KIM, H. - OH, J.M. - CHAE, J. - KIM, J. - KIM, M. - HASSAN, T. - GAO, Z.G. - LEE, J.Y. - KIM, S.J. - KIM, D. - GOGOTSI, Y. - KWON, H. - KOO, C.M. *Effect of Substitutional Oxygen on Properties of Ti₃C₂T_x MXene Produced Using Recycled TiO₂ Source. In SMALL METHODS. ISSN 2366-9608, AUG 2023, vol. 7, no. 8, SI. Dostupné na: <https://doi.org/10.1002/smt.202201715>, Registrované v: WOS*
7. [1.1] KHAN, K. - TAREEN, A.K. - IQBAL, M. - HUSSAIN, I. - MAHMOOD, A. - KHAN, U. - KHAN, M.F. - ZHANG, H. - XIE, Z.J. *Recent advances in MXenes: a future of nanotechnologies. In JOURNAL OF MATERIALS CHEMISTRY A. ISSN 2050-7488, SEP 26 2023, vol. 11, no. 37, p. 19764-19811. Dostupné na: <https://doi.org/10.1039/d3ta03069e>, Registrované v: WOS*
8. [1.1] KUMAR, R. - SAHOO, S. - JOANNI, E. - PANDEY, R. - SHIM, J.J. *Vacancy designed 2D materials for electrodes in energy storage devices. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, MAY 18 2023, vol. 59, no. 41, p. 6109-6127. Dostupné na: <https://doi.org/10.1039/d3cc00815k>, Registrované v: WOS*
9. [1.1] LAI, Q.T. - ZHAO, X.H. - SUN, Q.J. - TANG, Z.H. - TANG, X.G. - ROY, V.A.L. *Emerging MXene-Based Flexible Tactile Sensors for Health Monitoring and Haptic Perception. In SMALL. ISSN 1613-6810, JUL 2023, vol. 19, no. 27. Dostupné na: <https://doi.org/10.1002/sml.202300283>, Registrované v: WOS*

10. [1.1] LAMIEL, C. - HUSSAIN, I. - WARNER, J.H. - ZHANG, K.L. *Beyond Ti-based MXenes: A review of emerging non-Ti based metal-MXene structure, properties, and applications.* In *MATERIALS TODAY*. ISSN 1369-7021, MAR 2023, vol. 63, p. 313-338. Dostupné na: <https://doi.org/10.1016/j.mattod.2023.01.020>, Registrované v: WOS
11. [1.1] LIN, Y.C. - TORSI, R. - YOUNAS, R. - HINKLE, C.L. - RIGOSI, A.F. - HILL, H.M. - ZHANG, K.Y. - HUANG, S.X. - SHUCK, C.E. - CHEN, C. - LIN, Y.H. - MALDONADO-LOPEZ, D. - MENDOZA-CORTES, J.L. - FERRIER, J. - KAR, S. - NAYIR, N. - RAJABPOUR, S. - VAN DUIN, A.C.T. - LIU, X.W. - JARIWALA, D. - JIANG, J. - SHI, J. - MORTELMANS, W. - JARAMILLO, R. - LOPES, J.M.J. - ENGEL-HERBERT, R. - TROFE, A. - IGNATOVA, T. - LEE, S.H. - MAO, Z.Q. - DAMIAN, L. - WANG, Y.X. - STEVES, M.A. - KNAPPENBERGER, K. - WANG, Z.T.Y. - LAW, S. - BEPETE, G. - ZHOU, D. - LIN, J.X. - SCHEURER, M.S. - LI, J. - WANG, P.J. - YU, G. - WU, S.F. - AKINWANDE, D. - REDWING, J.M. - TERRONES, M. - ROBINSON, J.A. *Recent Advances in 2D Material Theory, Synthesis, Properties, and Applications.* In *ACS NANO*. ISSN 1936-0851, MAY 23 2023, vol. 17, no. 11, p. 9694-9747. Dostupné na: <https://doi.org/10.1021/acsnano.2c12759>, Registrované v: WOS
12. [1.1] LING, S.T. - ZHANG, C. - MA, C.L. - LI, Y. - ZHANG, Q.C. *Emerging MXene-Based Memristors for In-Memory, Neuromorphic Computing, and Logic Operation.* In *ADVANCED FUNCTIONAL MATERIALS*. ISSN 1616-301X, JAN 2023, vol. 33, no. 1. Dostupné na: <https://doi.org/10.1002/adfm.202208320>, Registrované v: WOS
13. [1.1] LIU, C. - LIU, Y.F. - MA, R.Z. - SASAKI, T. - WANG, X. - XIONG, P. - ZHU, J.W. *Atomic cation-vacancy engineering of two-dimensional nanosheets for energy-related applications.* In *MATERIALS CHEMISTRY FRONTIERS*. MAR 13 2023, vol. 7, no. 6, p. 1004-1024. Dostupné na: <https://doi.org/10.1039/d2qm01166b>, Registrované v: WOS
14. [1.1] LU, Q.Q. - LIU, C.C. - ZHAO, Y.R. - PAN, W.A. - XIE, K. - YUE, P.F. - ZHANG, G.S. - OMAR, A. - LIU, L.X. - YU, M.H. - MIKHAILOVA, D. *Freestanding MXene-based macroforms for electrochemical energy storage applications.* In *SUSMAT*. ISSN 2766-8479, AUG 2023, vol. 3, no. 4, p. 471-497. Dostupné na: <https://doi.org/10.1002/sus2.151>, Registrované v: WOS
15. [1.1] MATHEW, H.T. - ABHISEK, K. - VHATKAR, S.S. - ORAON, R. *Headway towards contemporary 2D MXene-based hybrid electrodes for alkali-ion batteries.* In *ENERGY ADVANCES*. DEC 8 2022, vol. 1, no. 12, p. 950-979. Dostupné na: <https://doi.org/10.1039/d2ya00212d>, Registrované v: WOS
16. [1.1] OTGONBAYAR, Z. - OH, W.C. *Comprehensive and multi-functional MXene based sensors: An updated review.* In *FLATCHEM*. ISSN 2452-2627, JUL 2023, vol. 40. Dostupné na: <https://doi.org/10.1016/j.flatc.2023.100524>, Registrované v: WOS
17. [1.1] OTGONBAYAR, Z. - YANG, S.H.Y. - KIM, I.J. - OH, W.C. *Recent advances in 2D MXene and solid state electrolyte for energy storage applications: Comprehensive review.* In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, SEP 15 2023, vol. 472. Dostupné na: <https://doi.org/10.1016/j.cej.2023.144801>, Registrované v: WOS
18. [1.1] PONNALAGAR, D. - HANG, D.R. - ISLAM, S.E. - LIANG, C.T. - CHOU, M.M.C. *Recent progress in two-dimensional Nb₂C MXene for applications in energy storage and conversion.* In *MATERIALS & DESIGN*. ISSN 0264-1275, JUL 2023, vol. 231. Dostupné na: <https://doi.org/10.1016/j.matdes.2023.112046>, Registrované v: WOS
19. [1.1] SALZBRENNER, P.T. - JOO, S.H. - CONWAY, L.J. - COOKE, P.I.C. -

- ZHU, B.A. - MATRASZEK, M.P. - WITT, W.C. - PICKARD, C.J. *Developments and further applications of ephemeral data derived potentials.* In *JOURNAL OF CHEMICAL PHYSICS*. ISSN 0021-9606, OCT 14 2023, vol. 159, no. 14. Dostupné na: <https://doi.org/10.1063/5.0158710>, Registrované v: WOS
20. [1.1] SHAH, S. - MUBEEN, I. - PERVAIZ, E. - NASIR, H. - AHSAN, S. *Heavy metals adsorption performance of Ti-MXenes synthesized via fluorinated etchants and their regeneration.* In *CHEMICAL PAPERS*. ISSN 0366-6352, OCT 2023, vol. 77, no. 10, p. 5601-5621. Dostupné na: <https://doi.org/10.1007/s11696-023-02942-w>, Registrované v: WOS
21. [1.1] SOLANGI, N.H. - KARRI, R.R. - MUBARAK, N.M. - MAZARI, S.A. - AZAD, A. *Emerging 2D MXenes as next-generation materials for energy storage applications.* In *JOURNAL OF ENERGY STORAGE*. ISSN 2352-152X, OCT 15 2023, vol. 70. Dostupné na: <https://doi.org/10.1016/j.est.2023.108004>, Registrované v: WOS
22. [1.1] TSOUNIS, C. - KUMAR, P. - MASOOD, H. - KULKARNI, R.P. - GAUTAM, G.S. - MÜLLER, C.R. - AMAL, R. - KUZNETSOV, D.A. *Advancing MXene Electrocatalysts for Energy Conversion Reactions: Surface, Stoichiometry, and Stability.* In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, JAN 23 2023, vol. 62, no. 4. Dostupné na: <https://doi.org/10.1002/anie.202210828>, Registrované v: WOS
23. [1.1] UDDIN, M.M. - KABIR, M.H. - ALI, M.A. - HOSSAIN, M.M. - KHANDAKER, M.U. - MANDAL, S. - ARIFUTZZAMAN, A. - JANA, D. *Graphene-like emerging 2D materials: recent progress, challenges and future outlook.* In *RSC ADVANCES*. NOV 7 2023, vol. 13, no. 47, p. 33336-33375. Dostupné na: <https://doi.org/10.1039/d3ra04456d>, Registrované v: WOS
24. [1.1] VENKATESHALU, S. - SHARIQ, M. - KIM, B. - PATEL, M. - MAHABARI, K.S. - CHOI, S.I. - CHAUDHARI, N.K. - GRACE, A.N. - LEE, K.Y. *Recent advances in MXenes: beyond Ti-only systems.* In *JOURNAL OF MATERIALS CHEMISTRY A*. ISSN 2050-7488, JUN 27 2023, vol. 11, no. 25, p. 13107-13132. Dostupné na: <https://doi.org/10.1039/d3ta01590d>, Registrované v: WOS
25. [1.1] WANG, Y.Z. - GUO, T.C. - ALHAJJI, E. - TIAN, Z.N. - SHI, Z.X. - ZHANG, Y.Z. - ALSHAREEF, H.N. *MXenes for Sulfur-Based Batteries.* In *ADVANCED ENERGY MATERIALS*. ISSN 1614-6832, JAN 2023, vol. 13, no. 4. Dostupné na: <https://doi.org/10.1002/aenm.202202860>, Registrované v: WOS
26. [1.1] YANG, Y.Z. - HAN, M.K. - SHUCK, C.E. - SAH, R.K. - PAUDEL, J.R. - GRAY, A.X. - GOGOTSI, Y. - MAY, S.J. *Correlating electronic properties with M-site composition in solid solution Ti_yNb_{2-y}CT_x MXenes.* In *2D MATERIALS*. ISSN 2053-1583, JAN 1 2023, vol. 10, no. 1. Dostupné na: <https://doi.org/10.1088/2053-1583/ac9e68>, Registrované v: WOS
27. [1.2] CHAND, Hushan - KUMARI, Kamlesh - KRISHNAN, Venkata. *MXenes-Based Materials for Contaminant Removal from Wastewaters.* In *ACS Symposium Series*, 2023-09-15, 1443, pp. 193-218. ISSN 00976156. Dostupné na: <https://doi.org/10.1021/bk-2023-1443.ch010>, Registrované v: SCOPUS
28. [1.2] DEYSHER, Grayson - SHUCK, Christopher Eugene - HANTANASIRISAKUL, Kanit - FREY, Nathan C. - FOUCHER, Alexandre C. - MALESKI, Kathleen - SARYCHEVA, Asia - SHENOY, Vivek B. - STACH, Eric A. - ANASORI, Babak - GOGOTSI, Yury. *Synthesis of Moinf₄/infVAI Cinf₄/inf max phase and two-dimensional Moinf₄/infV Cinf₄/inf MXene with five atomic layers of transition metals.* In *MXenes: From Discovery to Applications of Two-Dimensional Metal Carbides and Nitrides*, 2023-08-24, pp. 95-131., Registrované v: SCOPUS

29. [1.2] HANTANASIRISAKUL, Kanit - GOGOTSI, Yury. *Electronic and optical properties of 2D transition metal carbides and nitrides*. In *MXenes: From Discovery to Applications of Two-Dimensional Metal Carbides and Nitrides*, 2023-08-24, pp. 135-205., Registrované v: SCOPUS

30. [1.2] SINGH, Lakhveer - CHANDRA, Prakash. *Emerging Trends in Advanced Synthesis and Properties: Mxenes as Super Materials*. In *ACS Symposium Series*, 2023-09-15, 1442, pp. 71-100. ISSN 00976156. Dostupné na:

<https://doi.org/10.1021/bk-2023-1442.ch004>, Registrované v: SCOPUS

31. [1.2] ZHAO, Wenjie - WU, Yangmin. *Recent progress of MXene-based nanomaterials for corrosion protection nanomaterial*. In *Anti-Corrosive Nanomaterials: Design, Characterization, Mechanisms and Applications*, 2023-08-15, pp. 191-216. Dostupné na: <https://doi.org/10.1201/9781003331124-11>, Registrované v: SCOPUS

ADMB05

HURAN, Jozef - VALOVIČ, Albín - KOBZEV, A.P. - BALALYKIN, Nikolay I. - KUČERA, Michal - HAŠČÍK, Štefan - MALINOVSKÝ, Ľudovít - KOVÁČOVÁ, Eva. *Structural and physical characteristics of PECVD nanocrystalline silicon carbide thin films*. In *Physics Procedia*, 2012, vol. 32, p. 303-307. (2011: 0.227 - SJR). (2012 - SCOPUS). ISSN 1875-3892. Dostupné na:

<https://doi.org/10.1016/j.phpro.2012.03.560>

Citácie:

1. [1.1] NGUYEN, B. - TABARKHOON, F. - WELCHERT, N.A. - HU, S. - GUPTA, M. - TSOTSIS, T. *Fabrication of SiC-Type Films Using Low-Energy Plasma-Enhanced Chemical Vapor Deposition (PECVD) and Subsequent Pyrolysis*. In *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*. ISSN 0888-5885, JUN 6 2023, vol. 62, no. 24, p. 9474-9491. Dostupné na:

<https://doi.org/10.1021/acs.iecr.2c04656>, Registrované v: WOS

2. [1.2] NGUYEN, Bryan - TABARKHOON, Farnaz - WELCHERT, Nicholas A. - HU, Sheng - GUPTA, Malancha - TSOTSIS, Theodore. *Fabrication of SiC-Type Films Using Low-Energy Plasma-Enhanced Chemical Vapor Deposition (PECVD) and Subsequent Pyrolysis*. In *Industrial and Engineering Chemistry Research*, 2023-06-21, 62, 24, pp. 9474-9491. ISSN 08885885. Dostupné na:

<https://doi.org/10.1021/acs.iecr.2c04656>, Registrované v: SCOPUS

ADMB06

IZSÁK, Tibor - BABCHENKO, Oleg - JIRÁSEK, V. - VANKO, Gabriel - VOJS, M. - KROMKA, A. *Influence of diamond CVD growth conditions and interlayer material on diamond/GaN interface*. In *Materials Science Forum*, 2015, vol. 821-823, p. 982-985. (2014: 0.261 - SJR, Q3 - SJR). (2015 - SCOPUS, WOS). ISSN 0255-5476. Dostupné na: <https://doi.org/10.4028/www.scientific.net/MSF.821-823.982>

Citácie:

1. [1.1] WANG, Y.N. - HU, X.F. - GE, L. - LIU, Z.H. - XU, M.S. - PENG, Y. - LI, B. - YANG, Y.Q. - LI, S.Q. - XIE, X.J. - WANG, X.W. - XU, X.A. - HU, X.B. *Research Progress in Capping Diamond Growth on GaN HEMT: A Review*. In *CRYSTALS*. MAR 2023, vol. 13, no. 3. Dostupné na:

<https://doi.org/10.3390/cryst13030500>, Registrované v: WOS

ADMB07

KLEINOVÁ, Angela - HURAN, Jozef - SASINKOVÁ, Vlasta - PERNÝ, M. - ŠÁLY, V. - PACKA, J. *FTIR spectroscopy of silicon carbide thin films prepared by PECVD technology for solar cell application*. In *Proceedings of the SPIE*, 2015, vol. 9563, 95630U. (2014: 0.237 - SJR). (2015 - SCOPUS, WOS). ISSN 0277-786X.

Dostupné na: <https://doi.org/10.1117/12.2186748>

Citácie:

1. [1.1] CHAKRAVARTHY, V.V.K. - RAJMOHAN, T. - VIJAYAN, D. - PALANIKUMAR, K. *Application of grey-ANFIS system to optimize the drilling*

characteristics of nano SiC reinforced Al matrix composites. In *INTERNATIONAL JOURNAL OF INTERACTIVE DESIGN AND MANUFACTURING - IJIDEM*. ISSN 1955-2513, DEC 2023, vol. 17, no. 6, p. 3117-3131. Dostupné na: <https://doi.org/10.1007/s12008-023-01328-2>, Registrované v: WOS

2. [1.1] FILATOV, Y.D. New Patterns of Polishing Surfaces of Parts Made of Nonmetallic Materials. In *JOURNAL OF SUPERHARD MATERIALS*. ISSN 1063-4576, APR 2023, vol. 45, no. 2, p. 140-149. Dostupné na: <https://doi.org/10.3103/S106345762302003X>, Registrované v: WOS

3. [1.1] NANDAKUMAR, A. - RAJMOHAN, T. - VIJAYABHASKAR, S. - VIJAYAN, D. Sustainable Grinding Performances of Nano-Sic Reinforced Al Matrix Composites under MQL: An Integrated Box-Behnken Design Coupled with Artificial Bee Colony (ABC) Algorithm. In *SUSTAINABLE CHEMISTRY*. DEC 2022, vol. 3, no. 4, p. 482-510. Dostupné na: <https://doi.org/10.3390/suschem3040030>, Registrované v: WOS

4. [1.1] SARRA, A. - BRUTTI, S. - PALUMBO, O. - CAPITANI, F. - BORONDICS, F. - APPETECCHI, G.B. - CARBONI, N. - AHAD, S.A. - GEANEY, H. - RYAN, K. - PAOLONE, A. Solid-Electrolyte Interface Formation on Si Nanowires in Li-Ion Batteries: The Impact of Electrolyte Additives. In *BATTERIES-BASEL*. MAR 2023, vol. 9, no. 3. Dostupné na: <https://doi.org/10.3390/batteries9030148>, Registrované v: WOS

5. [1.2] EDATHIL, Anjali Achazhiyath - OTHMAN, Israa - PAL, Priyabrata - BANAT, Fawzi. Interpenetrating network nanocomposite hydrogels as efficient adsorbents for the removal of total impurities from industrial lean methyl diethanolamine solution. In *Polymer Bulletin*, 2023-09-01, 80, 9, pp. 9913-9939. ISSN 01700839. Dostupné na: <https://doi.org/10.1007/s00289-022-04542-2>, Registrované v: SCOPUS

ADMB08

KOROTEEV, M. - ROMANOVA, E.** - KOROVIN, D. - SHEVTSOV, V. - FEKLIN, V. - NIKITIN, P. - MAKRUSHIN, S. - BUBLIKOV, Konstantin.

Optimization of food industry production using the Monte Carlo simulation method: a case study of a meat processing plant. In *Informatics*, 2022, vol. 9, no. 5. (2021: 0.595 - SJR, Q1 - SJR). ISSN 2227-9709. Dostupné na: <https://doi.org/10.3390/informatics9010005>

Citácie:

1. [1.1] E-FATIMA, K. - KHANDAN, R. - HOSSEINIAN-FAR, A. - SARWAR, D. The Adoption of Robotic Process Automation Considering Financial Aspects in Beef Supply Chains: An Approach towards Sustainability. In *SUSTAINABILITY*. APR 26 2023, vol. 15, no. 9. Dostupné na: <https://doi.org/10.3390/su15097236>, Registrované v: WOS

2. [1.1] FABIANOVÁ, J. - JANEKOVÁ, J. - FEDORKO, G. - MOLNÁR, V. A Comprehensive Methodology for Investment Project Assessment Based on Monte Carlo Simulation. In *APPLIED SCIENCES-BASEL*. MAY 16 2023, vol. 13, no. 10. Dostupné na: <https://doi.org/10.3390/app13106103>, Registrované v: WOS

3. [1.1] SENOVA, A. - TOBISOVA, A. - ROZENBERG, R. New Approaches to Project Risk Assessment Utilizing the Monte Carlo Method. In *SUSTAINABILITY*. JAN 2023, vol. 15, no. 2. Dostupné na: <https://doi.org/10.3390/su15021006>, Registrované v: WOS

ADMB09

KUJOVIČ, Tomáš** - GÖMÖRY, Fedor**. Influence of local deformation on critical current of high temperature superconductor tape. In *Journal of Physics: Conference Series* : 14th European Conference on Applied Superconductivity (EUCAS2019) 1-5 September 2019, Glasgow, UK, 2020, vol. 1559, no. 012050. (2019: 0.227 - SJR, Q3 - SJR). ISSN 1742-6588. Dostupné na:

<https://doi.org/10.1088/1742-6596/1559/1/012050>

Citácie:

1. [1.1] PAN, Y.Z. - GAO, P.F. *Analysis of mechanical behavior and electromechanical properties of REBCO-coated conductor tapes under combined bending-tension loads using numerical methods. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, APR 1 2023, vol. 36, no. 4.*

Dostupné na: <https://doi.org/10.1088/1361-6668/acbac7>, Registrované v: WOS

ADMB10

KUTIŠ, V. - GÁLIK, G. - KRÁLOVIČ, V. - RÝGER, Ivan - MOJTO, E. - LALINSKÝ, Tibor. *Modelling and simulation of SAW sensor using FEM. In Procedia Engineering, 2012, vol. 48, p. 332-337. (2011: 0.237 - SJR). (2012 - SCOPUS, WOS). ISSN 1877-7058. Dostupné na:*

<https://doi.org/10.1016/j.proeng.2012.09.522>

Citácie:

1. [1.1] SHEN, J.J. - CHEN, H.B. - SHI, Z.M. - KONG, L.H. - ZHANG, Y.J. - LI, L.F. - LI, P. - HE, X.L. *SH-BAW devices with abnormal mass-loading effect for chemical sensing. In APPLIED PHYSICS LETTERS. ISSN 0003-6951, NOV 13 2023, vol. 123, no. 20. Dostupné na: <https://doi.org/10.1063/5.0171401>,*

Registrované v: WOS

2. [1.2] ABED, Marwa H. - WALI, Wasan A. - ALAZIZ, Musaab. *Modeling and simulation of a pipeline leak detection using smart inspection ball. In Bulletin of Electrical Engineering and Informatics, 2023-08-01, 12, 4, pp. 2105-2116. ISSN 20893191. Dostupné na: <https://doi.org/10.11591/beej.v12i4.4790>, Registrované v: SCOPUS*

ADMB11

KUTIŠ, V. - DZUBA, Jaroslav - PAULECH, J. - MURÍN, Justín - LALINSKÝ, Tibor. *MEMS piezoelectric pressure sensor-modelling and simulation. In Procedia Engineering, 2012, vol. 48, p. 338-345. (2011: 0.237 - SJR). (2012 - SCOPUS, WOS). ISSN 1877-7058. Dostupné na: <https://doi.org/10.1016/j.proeng.2012.09.523>*

Citácie:

1. [1.1] KATEY, B. - VOICULESCU, I. - LI, F. - UNTAROIU, A. *PIEZOELECTRIC BLOOD PRESSURE SENSOR FOR IMPLANTABLE DEVICES. In PROCEEDINGS OF ASME 2023 INTERNATIONAL MECHANICAL ENGINEERING CONGRESS AND EXPOSITION, IMECE2023, VOL 12. 2023., Registrované v: WOS*

2. [1.2] SINGH, Moirangthem Shamjit - KALITA, Pradip Kumar - MEETEI, Maibam Sanju. *Piezoelectric-Based Square Diaphragm Pressure Sensor Modelling and Analysis using PZT-5H and PZT-5A. In SSRG International Journal of Electrical and Electronics Engineering, 2023-08-01, 10, 8, pp. 1-8. Dostupné na: <https://doi.org/10.14445/23488379/IJEEE-V10I8P101>,*

Registrované v: SCOPUS

3. [1.2] SINGH, Moirangthem Shamjit - KALITA, Pradip Kumar - SINGH, Heisnam Shanjit - MEETEI, Maibam Sanju. *Modelling and Analysis of ZnO Piezoelectric-Based Circular Diaphragm Pressure Sensor. In International Journal of Engineering Trends and Technology, 2023-01-01, 71, 11, pp. 84-89. ISSN 23490918. Dostupné na: <https://doi.org/10.14445/22315381/IJETT-V71I11P208>, Registrované v: SCOPUS*

ADMB12

MIKULICS, M. - HARTDEGEN, H. - WINDEN, A. - FOX, A. - MARSO, M. - SOFER, Z. - LUTH, H. - GRÜTZMACHER, D. - KORDOŠ, Peter. *Residual strain in recessed AlGaIn/GaN heterostructure field-effect transistors evaluated by micro photoluminescence measurements. In Physica status solidi C. Current topics in solid state physics, 2012, vol. 9, p. 911-914. (2011: 0.453 - SJR, Q3 - SJR). (2012 - SCOPUS). ISSN 1862-6351. Dostupné na: <https://doi.org/10.1002/pssc.201100408>*

Citácie:

1. [1.2] ZHANG, Jie - ZHENG, Fuzhong - DU, Junjie - LU, Yuting - LI, Zhonghao - WU, Ying. *Research on SWCNT non-contact strain sensor based on photoluminescence principle. In 2023 4th International Seminar on Artificial Intelligence, Networking and Information Technology, AINIT 2023, 2023-01-01, pp. 771-775. Dostupné na: <https://doi.org/10.1109/AINIT59027.2023.10212479>, Registrované v: SCOPUS*
- ADMB13 NAST, R. - VOJENČIAK, Michal - DEMENČÍK, Eduard - KARIO, A. - RINGSDORF, B. - JUNG, A. - RUNTSCH, B. - GRILLI, F. - GOLDACKER, W. Influence of laser striations on the properties of coated conductors. In *Journal of Physics: Conference Series*, 2014, vol. 507, 022023. (2013: 0.231 - SJR). (2014 - WOS, SCOPUS). ISSN 1742-6588. Dostupné na: <https://doi.org/10.1088/1742-6596/507/2/022023>
- Citácie:
1. [1.1] PEKARČIKOVÁ, M. - FROLEK, L. - NECPAL, M. - CUNINKOVÁ, E. - SKARBA, M. - HULACOVÁ, S. - FERENČÍK, F. - BOCÁKOVÁ, B. *Optimization of REBCO Tapes through Division and Striation for Use in Superconducting Cables with Low AC Losses. In MATERIALS. DEC 2023, vol. 16, no. 23. Dostupné na: <https://doi.org/10.3390/ma16237333>, Registrované v: WOS*
2. [1.1] SKARBA, M. - PEKARČIKOVÁ, M. - FROLEK, L. - CUNINKOVÁ, E. - NECPAL, M. - SIMON, S. *Striating of REBCO-Coated Conductors for AC Loss Reduction. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. ISSN 1051-8223, DEC 2023, vol. 33, no. 9. Dostupné na: <https://doi.org/10.1109/TASC.2023.3327966>, Registrované v: WOS*
- ADMB14 NISHIDA, A.** - TAKA, C. - CHROMIK, Štefan. Scaling analyses on the critical current density in MgB₂/SiC/Si thin film processed at higher temperature. In *IOP Conference Series: Materials Science and Engineering : ICEC-ICMC 2018, 2019, vol. 502, no. 012184. (2018: 0.192 - SJR). ISSN 1757-899x. Dostupné na: <https://doi.org/10.1088/1757-899X/502/1/012184>*
- Citácie:
1. [1.1] PUTRA, R.P. - OH, J.Y. - JUNG, S.G. - PARK, H.S. - KANG, W.N. - KANG, B. *Enhancement in High-Field J_c Properties and the Flux Pinning Mechanism of ZnO-Buffered MgB₂ Films. In ACS OMEGA. ISSN 2470-1343, MAR 28 2023, vol. 8, no. 12, p. 11607-11613. Dostupné na: <https://doi.org/10.1021/acsomega.3c00809>, Registrované v: WOS*
- ADMB15 NISHIDA, A.** - TAKA, C. - CHROMIK, Štefan. Scaling analyses on the critical current density in MgB₂/NbN/Si thin film. In *Journal of Physics: Conference Series : 14th European Conference on Applied Superconductivity (EUCAS2019) 1-5 September 2019, Glasgow, UK, 2020, 2020, vol. 1559, no. 012041. (2019: 0.227 - SJR, Q3 - SJR). ISSN 1742-6588. Dostupné na: <https://doi.org/10.1088/1757-899X/502/1/012184>*
- Citácie:
1. [1.1] PUTRA, R.P. - OH, J.Y. - JUNG, S.G. - PARK, H.S. - KANG, W.N. - KANG, B. *Enhancement in High-Field J_c Properties and the Flux Pinning Mechanism of ZnO-Buffered MgB₂ Films. In ACS OMEGA. ISSN 2470-1343, MAR 28 2023, vol. 8, no. 12, p. 11607-11613. Dostupné na: <https://doi.org/10.1021/acsomega.3c00809>, Registrované v: WOS*
- ADMB16 RÝGER, Ivan - LALINSKÝ, Tibor - VANKO, Gabriel - TOMÁŠKA, M. - KOSTIČ, Ivan - HAŠČÍK, Štefan - VALLO, Martin. HEMT-SAW structures for chemical gas sensors in harsh environment. In *ASDAM 2010 : proceedings of the 8th International Conference on Advanced Semiconductor Devices and Microsystems. - Piscataway : IEEE, 2010, p. 131-134. ISBN 978-1-4244-8572-7. Dostupné na: <https://doi.org/10.1109/ASDAM.2010.5666317>*

Citácie:

1. [1.1] AHMED, Imtiaz - RAWAT, Udit - CHEN, Jr Tai - WEINSTEIN, Dana. Super-High-Frequency Low-Loss Sezawa Mode SAW Devices in a GaN/SiC Platform. In *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, 2023-04-01, 70, 4, pp. 291-301. ISSN 08853010. Dostupné na:

<https://doi.org/10.1109/TUFFC.2023.3241775>, Registrované v: WOS

ADMB17 RÝGER, Ivan - VANKO, Gabriel - KUNZO, Pavol - LALINSKÝ, Tibor - VALLO, Martin - PLECENÍK, A. - SATRAPINSKY, L. - PLECENÍK, T. AlGaIn/GaN HEMT based hydrogen sensors with gate absorption layers formed by high temperature oxidation. In *Procedia Engineering*, 2012, vol. 47, p. 518-521. (2011: 0.237 - SJR). (2012 - SCOPUS, WOS). ISSN 1877-7058. Dostupné na: <https://doi.org/10.1016/j.proeng.2012.09.198>

Citácie:

1. [1.1] BHAT, A.M. - POONIA, R. - VARGHESE, A. - SHAFI, N. - PERIASAMY, C. AlGaIn/GaN high electron mobility transistor for various sensing applications: A review. In *MICRO AND NANOSTRUCTURES*. APR 2023, vol. 176. Dostupné na: <https://doi.org/10.1016/j.micrna.2023.207528>, Registrované v: WOS

2. [1.1] JIANG, Y. - LI, W.M. - DU, F.Z. - SOKOLOVSKIJ, R. - ZHANG, Y. - SHI, S.H. - HUANG, W.G. - WANG, Q. - YU, H.Y. - WANG, Z.R. A comprehensive review of gallium nitride (GaN)-based gas sensors and their dynamic responses. In *JOURNAL OF MATERIALS CHEMISTRY C*. ISSN 2050-7526, AUG 3 2023, vol. 11, no. 30, p. 10121-10148. Dostupné na:

<https://doi.org/10.1039/d3tc01126g>, Registrované v: WOS

3. [1.1] NGUYEN, V.C. - CHA, H.Y. - KIM, H. High Selectivity Hydrogen Gas Sensor Based on WO₃/Pd-AlGaIn/GaN HEMTs. In *SENSORS*. APR 2023, vol. 23, no. 7. Dostupné na: <https://doi.org/10.3390/s23073465>, Registrované v: WOS

ADMB18 SANZ, S. - ARLABAN, T. - MANZANAS, R. - TROPEANO, M - FUNKE, R. - KOVÁČ, Pavol - YANG, Y. - NEUMANN, H. - MONDESERT, B. Superconducting light generator for large offshore wind turbines. In *Journal of Physics: Conference Series*, 2014, vol. 507, 032040. (2013: 0.231 - SJR). (2014 - WOS, SCOPUS). ISSN 1742-6588. Dostupné na: <https://doi.org/10.1088/1742-6596/507/3/032040>

Citácie:

1. [1.1] VARGAS-LLANOS, C.R. - KRÄMER, J. - NOE, M. - GRILLI, F. Design and test of a setup for calorimetric measurements of AC transport losses in HTS racetrack coils. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, APR 1 2023, vol. 36, no. 4. Dostupné na:

<https://doi.org/10.1088/1361-6668/acbba5>, Registrované v: WOS

ADMB19 SEDLAČKOVÁ, K. - ZAŤKO, Bohumír - PAVLOVIČ, M. - ŠAGÁTOVÁ, A. - NEČAS, V. Effects of electron irradiation on spectrometric properties of Schottky barrier CdTe radiation detectors. In *International Journal of Modern Physics: Conference Series : Applications of Nuclear Techniques (CRETE19)*, 2020, vol. 50, no. 2060017. ISSN 2010-1945. Dostupné na: <https://doi.org/10.1142/S2010194520600174> (APVV 18-0273. APVV 18-0243)

Citácie:

1. [1.1] DAMULIRA, E. Radiation dosimetry in medicine using II-VI semiconductors. In *JOURNAL OF RADIATION RESEARCH AND APPLIED SCIENCES*. ISSN 1687-8507, SEP 2022, vol. 15, no. 3, p. 72-82. Dostupné na:

<https://doi.org/10.1016/j.jrras.2022.06.001>, Registrované v: WOS

ADMB20 SEILER, Eugen - ABRAHAMSEN, A. - KOVÁČ, Ján - WICHMANN, M. - TRAEHOLT, C. Measurement of AC losses in a racetrack superconducting coil made from YBCO coated conductor. In *Physics Procedia*, 2012, vol. 36, p. 980-984.

(2011: 0.227 - SJR). (2012 - SCOPUS). ISSN 1875-3892. Dostupné na:

<https://doi.org/10.1016/j.phpro.2012.06.092>

Citácie:

1. [1.1] TER HARMSEL, J. - OTTEN, S. - DHALLE, M. - TEN KATE, H. Magnetization loss and transport current loss in ReBCO racetrack coils carrying stationary current in time-varying magnetic field at 4.2 K. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, JAN 1 2023, vol. 36, no. 1. Dostupné na: <https://doi.org/10.1088/1361-6668/aca83d>, Registrované v: WOS

ADMB21 ŠAGÁTOVÁ, A.** - ZAŤKO, Bohumír - KOVÁČOVÁ, Eva - NEČAS, V. Gamma spectrometry of different energies by radiation-degraded SI GaAs detectors. In AIP Conference Proceedings, 2021, vol. 2411, no. 080013. (2020: 0.177 - SJR). ISSN 0094-243X. Dostupné na: <https://doi.org/10.1063/5.0067365>

Citácie:

1. [1.2] SAYMBETOV, A. K. - MUMINOV, R. A. - JAPASHOV, N. M. - TOSHMURODOV, Y. K. - NURGALIYEV, M. K. - KUTTYBAY, N. B. - ZHOLAMANOV, B. N. Optimal regime of the double-sided drift of lithium ions into silicon monocrystal. In Physical Sciences and Technology, 2023-06-07, 10, 1, pp. 19-25. ISSN 24096121. Dostupné na:

<https://doi.org/10.26577/phst.2023.v10.i1.03>, Registrované v: SCOPUS

ADMB22 ŠTRBÍK, Vladimír** - NURGALIEV, T. - SOJKOVÁ, Michaela - CHROMIK, Štefan - ŠPANKOVÁ, Marianna - GÁL, Norbert - BLAGOEV, B. Properties of LSMO/YBCO cross-strip type junctions. In Journal of Physics: Conference Series, 2018, vol. 992, no. 012052. (2017: 0.241 - SJR, Q3 - SJR). ISSN 1742-6588. Dostupné na: <https://doi.org/10.1088/1742-6596/992/1/012052>

Citácie:

1. [1.2] LAASSOULI, Abdelmounaim - BAJJOU, Omar - LACHTIOUI, Youssef - NAJIM, Abdelhafid - MOULAOU, Lhouceine - RAHMANI, Khalid. DFT investigation on the electronic and optical properties of Br-doped CH₃NHIn₃/In₃SnI₃ perovskite. In 2023 3rd International Conference on Innovative Research in Applied Science, Engineering and Technology, IRASET 2023, 2023-01-01, pp. Dostupné na:

<https://doi.org/10.1109/IRASET57153.2023.10153066>, Registrované v: SCOPUS

ADMB23 ŠTRBÍK, Vladimír - BLAGOEV, B. - MATEEV, E. - NURGALIEV, T. Electrical transport in epitaxial and polycrystalline thin LSMO films. In Journal of Physics: Conference Series, 2014, vol. 514, 012042. (2013: 0.231 - SJR). (2014 - WOS, SCOPUS). ISSN 1742-6588. Dostupné na: <https://doi.org/10.1088/1742-6596/514/1/012042>

Citácie:

1. [1.1] CHATTERJEE, S. - LABAR, R. - NOORUDDIN, M.A.K. - ROY, S. - KUNDU, T.K. DC conductivity mechanism in La_{0.7}Sr_{0.3}MnO₃ (LSMO)-ZnO nanocomposites. In JOURNAL OF APPLIED PHYSICS. ISSN 0021-8979, AUG 14 2023, vol. 134, no. 6. Dostupné na: <https://doi.org/10.1063/5.0151397>, Registrované v: WOS

ADMB24 ZÁPRAŽNÝ, Zdenko** - KORYTÁR, Dušan - JERGEL, Matej - HALAHOVETS, Yuriy - MAŤKO, Igor - ŠIFFALOVÍČ, Peter - KEČKÉŠ, Jozef - MIKULÍK, P. - MAJKOVÁ, Eva - THI, T.N.T. Study of surface quality and subsurface damage of germanium optics produced by single point diamond nanomachining. In Proceedings of the SPIE : EUV and X-ray Optics: Synergy between Laboratory and Space VI, 2019, vol. 11032, no. 110320E. (2018: 0.238 - SJR). ISSN 0277-786X. Dostupné na: <https://doi.org/10.1117/12.2520970> (VEGA 2/0092/18)

Citácie:

1. [1.1] TAN, J.W. - WANG, G. - LI, Y.F. - YU, Y. - CHEN, Q.D. Femtosecond Laser Fabrication of Refractive/Diffractive Micro-Optical Components on Hard Brittle Materials. In *LASER & PHOTONICS REVIEWS*. ISSN 1863-8880, AUG 2023, vol. 17, no. 8. Dostupné na: <https://doi.org/10.1002/lpor.202200692>, Registrované v: WOS

ADMB25 ZAŤKO, Bohumír** - DUBECKÝ, František - RYC, L. - ŠAGÁTOVÁ, A. - SEDLAČKOVÁ, K. - KOVÁČOVÁ, Eva - NEČAS, V. The study of 4H-SiC alpha particle detectors with different Schottky contact metallization. In *AIP Conference Proceedings : Applied Physics of Condensed Matter (APCOM 2018)*, 2018, vol. 1996, no. 020051. (2017: 0.165 - SJR). (2018 - SCOPUS, WOS). ISSN 0094-243X. Dostupné na: <https://doi.org/10.1063/1.5048903>

Citácie:

1. [1.1] LONG, Z. - NIU, M.C. - XIA, X.C. - JIANG, W. - LI, Y.J. - JING, H.T. - LIANG, H.W. - FAN, R.R. Development of the large sensitive area 4H-SiC Schottky detectors at the Back-n. In *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*. ISSN 0168-9002, NOV 2023, vol. 1056. Dostupné na: <https://doi.org/10.1016/j.nima.2023.168585>, Registrované v: WOS

2. [1.1] LONG, Z. - XIA, X.C. - JIANG, W. - NIU, M.C. - YI, H. - JING, H.T. - LIANG, H.W. - FAN, R.R. A study of the signal rising edge produced by a charge sensitive preamplifier connected to a 4H-SiC detector. In *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*. ISSN 0168-9002, MAY 2023, vol. 1050. Dostupné na: <https://doi.org/10.1016/j.nima.2023.168170>, Registrované v: WOS

ADNA Vedecké práce v domácich impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADNA01 BEZÁK, Viktor - KREMPASKÝ, Július. A phenomenological theory of thermal conductivity of thin films. In *Czechoslovak journal of physics*, 1968, vol. 18, p. 1264. ISSN 0011-4626.

Citácie:

1. [1.1] ELSAFI, B. Giant magnetoresistance effect in co-based spin-valves structure. In *BULLETIN OF MATERIALS SCIENCE*. ISSN 0250-4707, JUN 17 2023, vol. 46, no. 3. Dostupné na: <https://doi.org/10.1007/s12034-023-02980-w>, Registrované v: WOS

ADNA02 CAMBEL, Vladimír - GREGUŠOVÁ, Dagmar - ELIÁŠ, Peter - FEDOR, Ján - KOSTIČ, Ivan - MAŇKA, Ján - BALLO, P. Switching magnetization magnetic force microscopy - an alternative to conventional lift-mode MFM. In *Journal of Electrical Engineering*, 2011, vol. 62, p. 37-43. (2010: 0.278 - IF, Q4 - JCR, 0.191 - SJR, Q3 - SJR). (2011 - INSPEC, SCOPUS). ISSN 1335-3632.

Citácie:

1. [1.1] JOSTEN, N. - FRANZKA, S. - RAO, Z.Y. - SMOLIAROVA, T. - KOVÁCS, A. - SCHEIBEL, F. - STAAB, F. - ACET, M. - ÇAKIR, A. - DURST, K. - GAULT, B. - DUNIN-BORKOWSKI, R.E. - GUTFLEISCH, O. - FARLE, M. Location and morphology of ferromagnetic precipitates in Ni-Mn-Sn. In *PHYSICAL REVIEW MATERIALS*. ISSN 2475-9953, DEC 26 2023, vol. 7, no. 12. Dostupné na: <https://doi.org/10.1103/PhysRevMaterials.7.124411>, Registrované v: WOS

ADNA03 MIKOLÁŠEK, M.** - KEMENY, M. - CHYMO, F. - ONDREJKA, P. - HURAN, Jozef. Amorphous silicon PEC-PV hybrid structure for photo-electrochemical water

splitting. In Journal of Electrical Engineering, 2019, vol. 70, p. 107-111. (2018: 0.636 - IF, Q4 - JCR, 0.200 - SJR, Q3 - SJR). (2019 - SCOPUS, WOS). ISSN 1335-3632. Dostupné na: <https://doi.org/10.2478/jee-2019-0050>

Citácie:

1. [1.1] SAMSUDIN, M.F.R. Photovoltaic-Assisted Photo(electro)catalytic Hydrogen Production: A Review. In ENERGIES. AUG 2023, vol. 16, no. 15.

Dostupné na: <https://doi.org/10.3390/en16155743>, Registrované v: WOS

2. [1.1] YE, L. - ZHENG, J. - GUO, C. - HU, Y. - YU, J. - ZHU, X.D. - CHEN, T. Opto-electrical properties of amorphous silicon carbide thin films adjustably prepared by magnetron sputtering at room temperature. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, SEP 15 2023, vol. 631. Dostupné na:

<https://doi.org/10.1016/j.apsusc.2023.157526>, Registrované v: WOS

ADNA04

PERNÝ, M. - ŠÁLY, V.** - JANÍČEK, František - MIKOLÁŠEK, M. - VÁRY, M. - HURAN, Jozef**. Electric measurements of PV heterojunction structures a-SiC/c-Si. In Journal of Electrical Engineering, 2018, vol. 69, iss. 1, p. 52-57. (2017: 0.508 - IF, Q4 - JCR, 0.205 - SJR, Q3 - SJR). (2018 - SCOPUS, WOS). ISSN 1335-3632. Dostupné na: <https://doi.org/10.1515/jee-2018-0007>

Citácie:

1. [1.1] FAN, X.Y. - RABELO, M. - HU, Y.F. - KHOKHAR, M.Q. - KIM, Y. - YI, J.S. Factors Affecting the Performance of HJT Silicon Solar Cells in the Intrinsic and Emitter Layers: A Review. In TRANSACTIONS ON ELECTRICAL AND ELECTRONIC MATERIALS. ISSN 1229-7607, APR 2023, vol. 24, no. 2, p. 123-131. Dostupné na: <https://doi.org/10.1007/s42341-022-00427-3>, Registrované v: WOS

ADNA05

PERNÝ, M. - ŠÁLY, V. - VÁRY, M. - MIKOLÁŠEK, M. - HURAN, Jozef - PACKA, J. AC impedance spectroscopy of Al/a-SiC/c-Si(p)/Al heterostructure under illumination. In Journal of Electrical Engineering, 2014, vol. 65, p. 174-178. (2013: 0.420 - IF, Q4 - JCR, 0.187 - SJR, Q3 - SJR). (2014 - INSPEC, WOS, SCOPUS). ISSN 1335-3632. Dostupné na: <https://doi.org/10.2478/jee-2014-0027>

Citácie:

1. [1.2] SAVKINA, Rada - SMIRNOV, Oleksii - MULENKO, Sergii. Oxide-Based Nanometric Layers Integrated With Silicon Substrate For New Multifunctional Applications. In Proceedings IEEE International Conference on Electronics and Nanotechnology, ELNANO, 2022-01-01, pp. 306-309. ISSN 23776935. Dostupné na: <https://doi.org/10.1109/ELNANO54667.2022.9927124>, Registrované v: SCOPUS

*AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách

AEC01

RUFER, L. - LALINSKÝ, Tibor - GROBELNY, D. - MIR, S. - VANKO, Gabriel - ÖSZI, Zsolt - MOZOLOVÁ, Želmíra. GaAs and GaN based SAW chemical sensors: acoustic part design and technology. In ASDAM 2006 : proceedings of the 6th International Conference on Advanced Semiconductor Devices and Microsystems. - Piscataway : IEEE, 2006, p. 165-168. ISBN 1-4244-0396-0.

Citácie:

1. [1.1] AHMED, I. - RAWAT, U. - CHEN, J.T. - WEINSTEIN, D. Super-High-Frequency Low-Loss Sezawa Mode SAW Devices in a GaN/SiC Platform. In IEEE TRANSACTIONS ON ULTRASONICS FERROELECTRICS AND FREQUENCY CONTROL. ISSN 0885-3010, APR 2023, vol. 70, no. 4, p. 291-301. Dostupné na: <https://doi.org/10.1109/TUFFC.2023.3241775>, Registrované v: WOS

AECA Vedecké práce v zahraničných recenzovaných zborníkoch a kratšie kapitoly/state

v zahraničných vedeckých monografiách alebo VŠ učebniciach

AECA01 KUČERA, Michal - NOVÁK, Jozef. Photoluminescence characterization of Bismuth doped GaSb. In BREZA, J. - DONOVAL, D. ASDAM 2002 : 4th International Conference on Advanced Semiconductor Devices and Applications. - Piscataway : IEEE, 2002, p. 149. ISBN 0-7803-7276-X.

Citácie:

1. [1.1] HALL, M.J. - VASHAEE, D. *Microscale Engineering of n-Type Doping in Nanostructured Gallium Antimonide: AC Impedance Spectroscopy Insights on Grain Boundary Characterization and Strategies for Controlled Dopant Distribution.* In MICROMACHINES. SEP 2023, vol. 14, no. 9. Dostupné na: <https://doi.org/10.3390/mi14091801>, Registrované v: WOS

*AEE Vedecké práce v zahraničných nerecenzovaných vedeckých zborníkoch, monografiách

AEE01 KUZMÍK, Ján - JAVORKA, P. - ALAM, A. - MARSO, M. - HEUKEN, M. - KORDOŠ, Peter. Investigation of self-heating effects in AlGaIn/GaN HEMTs. In EDMO 2001 : International Symposium on Electron Devices for Microwave and Optoelectronic Applications. - Vienna : Technical University of Vienna, 2001, p. 21.

Citácie:

1. [1.1] LIU, T.T. - ZHENG, K.W. - TAO, T. - HU, W.X. - CHEN, K. - ZHI, T. - YE, Y.C. - XIE, Z.L. - YAN, Y. - LIU, B. - ZHANG, R. *A Simulation of Thermal Management Using a Diamond Substrate with Nanostructures.* In MICROMACHINES. AUG 2023, vol. 14, no. 8. Dostupné na: <https://doi.org/10.3390/mi14081559>, Registrované v: WOS

AFC Publikované príspevky na zahraničných vedeckých konferenciách

AFC01 FRÖHLICH, Karol - MICUŠÍK, Matej - DOBROČKA, Edmund - ŠIFFALOVIČ, Peter - GUCMANN, Filip - FEDOR, Ján. Properties of Al₂O₃ thin films grown by atomic layer deposition. In ASDAM 2012 : conference proceedings. Eds. Š. Haščík, J. Osvald. - Piscataway : IEEE, 2012, p. 171-174. ISBN 978-1-4673-1195-3. Dostupné na: <https://doi.org/10.1109/ASDAM.2012.6418575>

Citácie:

1. [1.1] BURWELL, G. - REJNHARD, K. - EVANS, J. - MITCHELL, J. - GRIMES, M.T. - ELWIN, M. - ARMIN, A. - MEREDITH, P. *A Low-Temperature Batch Process for the Deposition of High-Quality Conformal Alumina Thin Films for Electronic Applications.* In ADVANCED ENGINEERING MATERIALS. ISSN 1438-1656, JUN 2023, vol. 25, no. 12. Dostupné na: <https://doi.org/10.1002/adem.202201901>, Registrované v: WOS

AFC02 MIKOLÁŠEK, M. - KOVÁČ, Jaroslav - HURAN, Jozef - PERNÝ, M. - ŠÁLY, V. - HARMATHA, L. Analysis of low temperature current-voltage measurements under illumination of silicon heterojunction solar cells. In 31th European Photovoltaic Solar Energy Conference and Exhibition : proceedings of the International Conference held in Hamburg, Germany, 14 - 18 September 2015. Eds. S. Rinck, N. Taylor, P. Helm. - Munchen : WIP, 2015, p. 817-820. ISBN 3-936338-39-6.

Citácie:

1. [1.1] PANIGRAHI, J. - PANDEY, A. - BHATTACHARYA, S. - MANDAL, S. - KOMARALA, V.K. *Impedance Spectroscopy Characterisation of Silicon Heterojunction Solar Cells: Observation of Trap States Distribution.* In SILICONPV 2022, THE 12TH INTERNATIONAL CONFERENCE ON CRYSTALLINE SILICON PHOTOVOLTAICS. ISSN 0094-243X, 2023, vol. 2826.

- AFC03 *Dostupné na: <https://doi.org/10.1063/5.0140452>, Registrované v: WOS*
 MITRÓOVÁ, Zuzana - TOMAŠOVIČOVÁ, Natália - LANCZ, Gábor - KOVÁČ, Jozef - VÁVRA, Ivo - KOPČANSKÝ, Peter. Preparation and characterization of carbon nanotubes functionalized by magnetite nanoparticles. In NANOCON 2010: 2nd international conference, October 12th - 14th 2010, Olomouc, Czech Republic : conference proceedings. - Ostrava : TANGER Ltd., 2010, p. 388-392. ISBN 978-80-87294-19-2. (NANOCON 2010 : International Conference)
- Citácie:
- [1.1] AL-REYAH, A. - MAGHRABI, M. - SHAHEEN, A.A. - EL-SHEIKH, A.H. - KHATTARI, Z. - MUFLEH, A. Electric impedance investigation with inductive behavior of multiwalled carbon nanotubes doped with variable loadings of magnetite. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. ISSN 0957-4522, MAR 2023, vol. 34, no. 7. Dostupné na: <https://doi.org/10.1007/s10854-023-10103-8>, Registrované v: WOS
 - [1.1] JAIN, S. - BHATT, A. - BABA, S.A. - BISHT, V.S. - BISWAS, P. - AMBATIPUDI, K. - NAVANI, N.K. Concurrent mitigation and facile monitoring of xenobiotics by a highly efficient and recyclable nanoengineered catalyst. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, OCT 1 2023, vol. 473. Dostupné na: <https://doi.org/10.1016/j.cej.2023.145074>, Registrované v: WOS
- AFC04 PERNÝ, M. - ŠÁLY, V. - VÁRY, M. - MIKOLÁŠEK, M. - HURAN, Jozef. Electrical characterization of a-SiC/c-Si solar cell structures. In ISSE 2015 : 38th International spring seminar on electronics technology. Eger, Hungary. May 6-10, 2015. - IEEE, 2015, p. 16-20. ISBN 978-1-4799-8860-0. Dostupné na: <https://doi.org/10.1109/ISSE.2015.7247953>
- Citácie:
- [1.1] PANIGRAHI, J. - PANDEY, A. - BHATTACHARYA, S. - PAL, A. - MANDAL, S. - KOMARALA, V.K. Impedance spectroscopy of amorphous/crystalline silicon heterojunction solar cells under dark and illumination. In SOLAR ENERGY. ISSN 0038-092X, JUL 15 2023, vol. 259, p. 165-173. Dostupné na: <https://doi.org/10.1016/j.solener.2023.05.030>, Registrované v: WOS
 - [1.2] GARG, A. - RATNESH, R. K. Design and Simulation of GaAs/InP and Si/SiC Heterojunction Solar Cells. In Lecture Notes in Electrical Engineering, 2023-01-01, 977, pp. 867-875. ISSN 18761100. Dostupné na: https://doi.org/10.1007/978-981-19-7753-4_66, Registrované v: SCOPUS
- AFC05 VALIK, L. - ĽAPAJNA, Milan - GUCMANN, Filip - FEDOR, Ján - ŠIFFALOVÍČ, Peter - FRÖHLICH, Karol. Distribution of fixed oxide charge in MOS structures with ALD grown Al₂O₃ studied by capacitance measurements. In ASDAM 2012 : conference proceedings. Eds. Š. Haščík, J. Osvald. - Piscataway : IEEE, 2012, p. 227-230. ISBN 978-1-4673-1195-3. Dostupné na: <https://doi.org/10.1109/ASDAM.2012.6418526>
- Citácie:
- [1.1] ARROYO, J. Meza - RAO, M. G. Syamala - VENTURA, M. S. de Urquijo - MARTINEZ-LANDEROS, V. H. - DAUNIS, Trey B. B. - RODRIGUEZ, Ovidio - HSU, Julia W. P. - BON, R. Ramirez. All solution-processed hafnium rich hybrid dielectrics for hysteresis free metal-oxide thin-film transistors. In JOURNAL OF MATERIALS CHEMISTRY C, 2023, vol. 11, no. 5, pp. 1824-1841. ISSN 2050-7526. Dostupné na: <https://doi.org/10.1039/d2tc03761k>, Registrované v: WOS
 - [1.1] GAO, Dawei - SHENOY, Rahul - YI, Suin - LEE, Jungmin - XU, Mingjie - RONG, Zixuan - DEO, Atharva - NATHAN, Dhruva - ZHENG, Jian-Guo - WILLIAMS, R. Stanley - CHEN, Yong. Synaptic Resistor Circuits Based on Al Oxide and Ti Silicide for Concurrent Learning and Signal Processing in Artificial

Intelligence Systems. In ADVANCED MATERIALS, 2023, vol. 35, no. 15, pp. ISSN 0935-9648. Dostupné na: <https://doi.org/10.1002/adma.202210484>, Registrované v: WOS

AFD Publikované príspevky na domácich vedeckých konferenciách

- AFD01 HUDEC, Boris - VANKO, Gabriel** - PRECNER, Marián - DOBROČKA, Edmund - SEIFERTO VÁ, Alena - FEDOR, Ján - TÓBIK, Jaroslav - FRÖHLICH, Karol. Piezoelectric thin film pressure sensor made by atomic layer deposition of 002-oriented ZnO on. In ASDAM 2022 : Conference Proceedings. Eds. J. Marek et al. - IEEE, 2022, p. 199-202. ISBN 978-1-6654-6977-7. (International Conference on Advanced Semiconductor Devices and Microsystems)
Citácie:
1. [1.2] Sreeraman, R., Thrinam Vishwakumaar, M.E., Muralidharan, J., Devibalan, K.: Automatic Accident Detection System In Intelligent Computing and Control for Engineering and Business Systems, ICCEBS 2023, Registrované v: SCOPUS
- AFD02 CHVÁLA, A. - NAGY, L. - MAREK, J. - PRIESOL, J. - DONOVAL, D. - VILHAN, Martin - BLAHO, Michal - GREGUŠOVÁ, Dagmar - KUZMÍK, Ján - ŠATKA, A. Simulation analysis of InAlN/GaN monolithic NAND logic cell. In ASDAM 2018 : The Twelfth International Conference on Advanced Semiconductor Devices and Microsystems. Editors: J. Breza, D. Donoval, E. Vavrinsky. - IEEE, 2018, p. 167-170. ISBN 978-1-5386-7488-8. Dostupné na: <https://doi.org/10.1109/ASDAM.2018.8544508>
Citácie:
1. [1.1] GMEINER, F. - YANG, H.P. - YAO, L.N. - HOLSTEIN, K. - MARTELARO, N. Exploring Challenges and Opportunities to Support Designers in Learning to Co-create with AI-based Manufacturing Design Tools. In PROCEEDINGS OF THE 2023 CHI CONFERENCE ON HUMAN FACTORS IN COMPUTING SYSTEMS, CHI 2023. 2023. Dostupné na: <https://doi.org/10.1145/3544548.3580999>, Registrované v: WOS
- AFD03 MUDROŇ, J. - MÜLLEROVÁ, J. - DUBECKÝ, František. Optical properties of semi-insulating GaAs irradiated by fast neutrons. In ASDAM '96 : Proceedings of the International Conference on Advanced Semiconductor Devices and Microsystems. - Bratislava : IEE SAS, 1996, p. 245.
Citácie:
1. [1.1] BEN ARBIA, M. - DEMIR, I. - KAUR, N. - SAIDI, F. - ZAPPA, D. - COMINI, E. - ALTUNTAS, I. - MAAREF, H. Experimental insights toward carrier localization in in-rich InGaAs/InP as candidate for SWIR detection: Microstructural analysis combined with optical investigation. In MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING. ISSN 1369-8001, JAN 2023, vol. 153. Dostupné na: <https://doi.org/10.1016/j.mssp.2022.107149>, Registrované v: WOS
- AFD04 ŤAPA JNA, Milan - VINCZE, A. - NOGA, Pavol - DOBROVODSKÝ, Jozef - ŠAGÁTOVÁ, A. - HASENÖHRL, Stanislav - GREGUŠOVÁ, Dagmar - KUZMÍK, Ján. Determination of secondary-ions yield in SIMS depth profiling of Si, Mg, and C ions implanted GaN epitaxial layers. In ASDAM 2018 : The Twelfth International Conference on Advanced Semiconductor Devices and Microsystems. Editors: J. Breza, D. Donoval, E. Vavrinsky. - IEEE, 2018, p. 141-144. ISBN 978-1-5386-7488-8. Dostupné na: <https://doi.org/10.1109/ASDAM.2018.8544657> (VEGA 2/0012/18)
Citácie:

1. [1.1] LAGZDINA, E. - LINGIS, D. - PIPON, Y. - PLUKIENE, R. - IGNATJEV, I. - PLUKIS, A. - MONCOFFRE, N. - NIAURA, G. - REMEIKIS, V. Application of ion implantation as a tool to study neutron induced morphological changes in HOPG and RBMK-1500 reactor graphite. In NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS. ISSN 0168-583X, MAY 2023, vol. 538, p. 218-226. Dostupné na: <https://doi.org/10.1016/j.nimb.2023.02.024>, Registrované v: WOS

AFK Postery zo zahraničných konferencií

AFK01 STAINES, M. - YAZDANI ASRAMI, M. - GLASSON, N. - ALLPRESS, N. - JOLLIFFE, L. - PARDO, Enric. Cooling systems for HTS transformers: impact of cost, overload, and fault current performance expectations (European Cryogenics Days 2017 and the 2nd International Workshop on Cooling Systems for HTS Applications (IWC-HTS) : Karlsruhe 2017)

Citácie:

1. [1.1] WU, Y. - SONG, W.J. - WIMBUSH, S.C. - FANG, J. - BADCOCK, R.A. - LONG, N.J. - JIANG, Z.A. Combined Impact of Asymmetric Critical Current and Flux Diverters on AC Loss of a 6.5 MVA/25 kV HTS Traction Transformer. In IEEE TRANSACTIONS ON TRANSPORTATION ELECTRIFICATION. ISSN 2332-7782, MAR 2023, vol. 9, no. 1, p. 1590-1604. Dostupné na: <https://doi.org/10.1109/TTE.2022.3194027>, Registrované v: WOS

GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup

GHG01 HURAN, Jozef - BOHÁČEK, Pavol - SHVETSOV, V.N. - KOBZEV, A.P. - KLEINOVÁ, Angela - SASINKOVÁ, Vlasta - BALALYKIN, Nikolay I. - SEKÁČOVÁ, Mária - ARBET, Juraj. Amorphous silicon carbide thin films deposited by plasma enhanced chemical vapor deposition at different temperature for hard environment applications. In 21st International Symposium on Plasma Chemistry : Cairns (Australia) 2013 [elektronický zdroj], <http://www.ispc-conference.org/ispcproc/ispc21/ID180.pdf>.

Citácie:

1. [1.1] BOUSSAA, S.A. - BENFADEL, K. - KHODJA, A.T. - AYACHI, M. - BOULIL, R. - BEKHEDDA, K. - TALBI, L. - BOUKEZZATA, A. - OUADAH, Y. - ALLAM, D. - MAIFI, L. - KEFFOUS, A. - CHETOUI, A. - TORKI, C. - BOUDEFFAR, F. - ACHACHA, S. - MANSERI, A. - BOUTAREK, N.Z. - KACI, S. Elaboration and Characterization of Amorphous Silicon Carbide Thin Films (a-SiC) by Sputtering Magnetron Technique for Photoelectrochemical CO₂ Conversion. In SILICON. ISSN 1876-990X, FEB 2023, vol. 15, no. 3, p. 1145-1157. Dostupné na: <https://doi.org/10.1007/s12633-022-02075-x>, Registrované v: WOS

Príloha A-4

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Ing. Ján Šoltýs, PhD

Názov semestr. predmetu: Nanotechnológie

Počet hodín za semester: 4

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚJFI

Ing. Jaroslav Tóvik, PhD.

Názov semestr. predmetu: Aplikovaný magnetizmus

Počet hodín za semester: 5

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚJFI

Semestrálne cvičenia:

Ing. Michal Blaho, PhD.

Názov semestr. predmetu: CAE elektronických prvkov

Počet hodín za semester: 3

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚEF

RNDr. Dagmar Gregušová, DrSc.

Názov semestr. predmetu: Praktikum FTL

Počet hodín za semester: 36

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra experimentálnej fyziky

Ing. Ján Šoltýs, PhD

Názov semestr. predmetu: Nanotechnológie

Počet hodín za semester: 4

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚJFI

Ing. Jaroslav Tóvik, PhD.

Názov semestr. predmetu: Fyzika 2

Počet hodín za semester: 52

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚJFI

Ing. Jaroslav Tóvik, PhD.

Názov semestr. predmetu: Fyzika 3

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚJFI

Semináre:

Terénne cvičenia:

Ing. Marek Búran, PhD.

Názov semestr. predmetu: Elektromagnetické prvky a systémy
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

Ing. Lubomír Frolek
Názov semestr. predmetu: Elektromagnetické prvky a systémy
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

Ing. Martin Kucharovič, PhD.
Názov semestr. predmetu: Elektromagnetické prvky a systémy
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

Ing. Tomáš Kujovič, PhD.
Názov semestr. predmetu: Elektromagnetické prvky a systémy
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

Mgr. Mykola Soloviov, PhD.
Názov semestr. predmetu: Elektromagnetické prvky a systémy
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

Ing. Ján Šouc, CSc.
Názov semestr. predmetu: Elektromagnetické prvky a systémy
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

Individuálne prednášky:

doc. Ing. Fedor Gömöry, DrSc.
Názov semestr. predmetu: Elektromagnetické prvky a systémy
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

Príloha A-5

Medzinárodná mobilita organizácie

(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Belgicko					Juraj Feilhauer	3
Česko					Mohammad Dehghan	7
					Filip Guemann	2
					Tibor Izsák	6
					Tibor Izsák	9
					Tomáš Kujovič	1
					Ondrej Pohorelec	1
					Tomáš Ščepka	1
					Jaroslav Tóbik	1
					Marian Varga	10
					Marian Varga	6
					Marian Varga	6
					Marian Varga	7
					Iuliia Vetrova	2
					Bohumír Zaťko	6
					Bohumír Zaťko	6
Dánsko					Boris Hudec	4
Francúzsko					Marek Búran	4
					Marek Búran	4
					Fedor Gömöry	4
					Eugen Seiler	5
					Viera Skákalová	8
Grécko					Michal Blaho	4

				Ján Kuzmík	4
				Ján Kuzmík	28
Holandsko				Eugen Seiler	8
Írsko				Michaela Sojková	2
Japonsko				Fedor Hrubíšák	180
Maďarsko				Ondrej Pohorelec	1
				Milan Ťapajna	1
Nemecko				Anang Dadhich	3
				Filip Gucmann	2
				Enric Pardo	3
Poľsko				Štefan Chromik	6
				Marianna Španková	6
Rakúsko				Fridrich Egyenes	1
				Fridrich Egyenes	1
				Fridrich Egyenes	6
				Jana Hrdá	1
				Martin Hulman	1
				Timea Ema Krajčovičová	1
				Ján Kuzmík	2
				Pavol Mozola	1
				Viera Skákalová	1
				Michaela Sojková	1
Španielsko				Dagmar Gregušová	2
				Ján Kuzmík	3
				Ondrej Pohorelec	4
Taiwan				Boris Hudec	8
				Ondrej Pohorelec	24
Taliansko				Michal Blaho	2
				Ján Kuzmík	2
USA				Michal Blaho	7

				Ján Fedor	21
				Fedor Gömöry	7
				Ján Kuzmík	13
Veľká Británia				Michal Blaho	2
				Ján Fedor	4
				Ján Kuzmík	2
				Bohumír Zaťko	5
Počet vyslaní spolu				60	473

(B) Prijatie vedeckých pracovníkov zo zahraničia na základe dohôd:

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Česko					Bergmann B.	2
					Slaviček T.	2
Francúzsko					Rutterana P.	1
Grécko					Aslanidis E.	5
					Konstantinide s G.	5
					Micholas L.	5
Japonsko					Méhes G.	2
					Suemitsu T.	1
Rakúsko					Bui T.T.A.	3
					Markevich A.	3
					Mustonen K.	3
Taliansko					Fracasso M.	5
					Soldati L.	3
					Tebano R.	3
Počet prijatí spolu					14	43

(C) Účast' pracovníkov pracoviska na konferenciách v zahraničí (nezahrnutých v "A"):

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Česko	FTIR	Lenka Pribusová Slušná	2
	Graphene Week 2024	Jana Hrdá	5
		Martin Hulman	5
		Lenka Pribusová Slušná	5
		Michaela Sojková	5
	Laser 64	Lenka Pribusová Slušná	3
	Nanocon 2024	Tibor Izsák	4
		Marian Varga	4
Fínsko	ALD	Boris Hudec	5
		Michal Pecz	5

Francúzsko	Magnetism	Iuliia Vetrova	6
Grécko	WOCSDICE- EXMATEC 2024	Javad Keshtar	7
		Jozef Novák	7
Chorvátsko	JVC 2024	Jozef Novák	6
		Ján Šoltýs	6
Lotyšsko	IEEE NAP-2024	Michal Bennár	5
		Vladimír Cambel	5
		Tetiana Kalmykova	5
Maďarsko	V4	Mohammad Dehghan	3
		Boris Hudec	3
Nemecko	ICNCE-2024	Mohammad Dehghan	4
		Boris Hudec	4
	IWGO 2024	Milan Ťapajna	5
	NanoNet	Martin Hulman	4
		Michaela Sojková	4
Poľsko	PCG2D	Viera Skákalová	3
Portugalsko	iWoRID	Bohumír Zaťko	5
Rakúsko	CECMD	Viera Skákalová	1
	CEMRD	Viera Skákalová	2
	IWEPNM 2024	Martin Hulman	6
		Viera Skákalová	6
		Michaela Sojková	6
	NANOMAT2024	Marian Varga	4
Slovensko	SPOC	Filip Guemann	5
Švajčiarsko	ICEC/ICMC	Anang Dadhich	6
		Arif Hussain	6
		Pavol Kováč	6
	IWNM HTS 2024	Anang Dadhich	5
		Fedor Gömöry	5
		Enric Pardo	5
		Mykola Soloviov	5
Taliansko	GaN24	Roman Stoklas	6
	GM2024	Ján Kuzmík	4
Turecko	ICSM 2024	Enric Pardo	6
USA	ASC	Fedor Gömöry	10
		Enric Pardo	10
	IWN	Michal Blaho	6
		Dagmar Gregušová	6
		Ján Kuzmík	6
	NT24	Michaela Sojková	6
	SPIE 2024	Filip Guemann	8
Veľká Británia	AEM 2024	Viera Skákalová	2
Spolu	30	52	263

Vysvetlivky: MAD - medziakademické dohody, KD - kultúrne dohody, VTS - vedecko-technická spolupráca v rámci vládnych dohôd

Skratky použité v tabuľke C:

AEM 2024 - Advanced Energy Materials

ALD - AVS International Conference on Atomic Layer Deposition
ASC - Applied Superconductivity Conference 2024
CECMD - Central European Condensed Matter Physics Day
CEMRD - Central European Material Research Day
FTIR - VII. Setkání uživatelů FTIR a Ramanových spektrometrů BRUKER
GaN24 - GaN Marathon 2024
GM2024 - GaN Marathon 2024
Graphene Week 2024 - Graphene Week 2024
ICEC/ICMC - 29th International Cryogenic Engineering Conference/International Cryogenic Materials Conference
ICNCE-2024 - International Conference on Neuromorphic Computing and Engineering
ICSM 2024 - International Conference on Superconductivity and Novel Magnetism
IEEE NAP-2024 - 14th International Conference Nanomaterials: Applications & Properties
IWEPNM 2024 - International Winterschool on Electronic Properties of Novel Materials
IWGO 2024 - International Workshop on Gallium Oxide and Related Materials
IWN - 12th International Workshop on Nitride Semiconductors
IWNM HTS 2024 - 9th International Workshop on Numerical Modelling of High Temperature Superconductors - HTS 2024
iWoRID - 23rd International Workshop on Radiation Imaging Detectors
JVC 2024 - 19th Joint Vacuum Conference & 30th International Scientific Meeting on Vacuum Science and Technique
Laser 64 - Laser 64
Magnetism - GDR MEETICC Magnetism 2024
Nanocon 2024 - 16th International Conference on Nanomaterials - Research & Application
NANOMAT2024 - 8th edition of the International Conference on Functional Nanomaterials and Nanodevices 2024
NanoNet - NanoNet+ Annual Workshop 2024
NT24 - 24th International Conference on Science and Application of Nanotubes and Low-Dimensional Materials
PCG2D - 9th Polish Conference Graphene and other 2D materials
SPIE 2024 - SPIE Photonics West, Oxide-Based Materials and Devices XV
SPOC - 23rd Slovak-Czech-Polish Optical Conference on Wave and Quantum Aspects of Contemporary Optics
V4 - Korea-V4 Workshop on Memristive Technologies
WOCSDICE-EXMATEC 2024 - 47th Workshop on Compound Semiconductor Devices and Integrated Circuits

Príloha A-6**Vedecko-popularizačná činnosť pracovníkov organizácie**

Meno	Spoluautori	Typ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Ing. Marek Búran, PhD.	T. Kujovič	iné	DOD 2024: Fakulta elektrotechniky a informatiky STU v Bratislave	Bratislava	1.2.2024
Ing. Ondrej Pohorelec, PhD.	M. Bennár, M. Talacko	iné	Doktorandská búrka	Bratislava	13.5.2024
Ing. Ondrej Pohorelec, PhD.	T. Kujovič	iné	PerFEKT Job Fair 2024	Brno	23.4.2024
Ing. Michal Sobota, PhD.		PB	Navštív svoju školu – Spoznaj svojho vedca,	Gymnázium Ladislava Sáru, Bratislava	3.9.2024
Mgr. Michaela Sojková, PhD.	J. Hrdá, L. Pribusová Slušná, M. Pecz, Ľ. Frolek, M. Kucharovič, T. Kujovič, P. Kotrusz, T. Krajčovičová, M. Precner	iné	Európska noc vedy	Bratislava, Stará Tržnica	30.9.2024
Mgr. Michaela Sojková, PhD.	O. Pohorelec, J. Hrdá, L. Pribusová Slušná, M. Pecz, M. Kucharovič, T. Kujovič, P. Kotrusz, J. Kesthkar, M. Ťapajna	iné	My sme SAV	Bratislava, Hviezdoslavovo námestie	14.6.2024

¹ PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédiá, DO - dokumentárny film

Príloha A-7

Vyznamenania, ceny a iné ocenenia udelené organizácii a jej pracovníkom v roku 2024

Domáce ocenenia

Ocenenia SAV

Iné domáce ocenenia

Búran Marek

Cena Aurela Stodolu

Oceňovateľ: STU

Opis: Cenu za Najlepšiu dizertačnú prácu

Hrdá Jana

Cena Rektora STU

Oceňovateľ: STU

Medzinárodné ocenenia

Uvádzajte v štruktúre: názov ocenenia, udeľujúca inštitúcia, meno a priezvisko ocenennej osoby.