Elektrotechnický ústav SAV, v. v. i.

Správa o činnosti organizácie SAV za rok 2022

Bratislava
január 2023

Obsah

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 vedeckej rady: RNDr. Dagmar Gregušová, DrSc.
Člen Snemu SAV: Ing. Milan Ťapajna, PhD.
Adresa: Dúbravská cesta 9, 841 04 Bratislava

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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	81	32	21	6	112	87.21	68.02	7.4

Vedeckí pracovníci	61	51	10	9	2	60	49.31	48.31	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci[1])	25	18	7	11	4	25	13.11	13.11	0.3
Odborní pracovníci VŠ (ostatní zamestnanci[2])	6	2	4	0	0	6	5.15	0.5	1
Odborní pracovníci ÚS	16	8	8	1	0	16	14.59	6.1	6.1
Ostatní pracovníci	5	2	3	0	0	5	5.05	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 31.12.2022 (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 31.12.2022 (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 31.12.2022)

Rodová skladba	**Pracovníci s hodnosťou**				**Vedeckí pracovníci v stupňoch**		
	DrSc.	**CSc./PhD.**	**prof.**	**doc.**	**I.**	**II.a.**	**II.b.**
Muži	8	40	0	4	8	30	13
Ženy	2	8	0	1	2	5	3

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	13	7.6	10	8.6	9	7.3	9	8.8	4	3.8	2	2.0	3	3.0	4	3.4	19	12.1
Ženy	4	1.3	2	1.8	2	2.0	2	2.0	0	0.0	1	1.0	2	2.0	4	4.0	2	1.2

A - Prepočet bez zohľadnenia úväzkov zamestnancov
B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2022

	Kmeňoví zamestnanci	**Vedeckí pracovníci**	**Riešitelia projektov**
Muži	48.2	49.2	47.3
Ženy	52.3	49.5	47.2
Spolu	49.4	49.2	47.3

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

Národná rada SR schválila dňa 21. 9. 2021 zákon č. 347/2021 Z. z., podľa ktorých odo dňa 1. 1. 2022 sa právna forma organizácií akadémie zmenila na verejné výskumné inštitúcie.
Na základe tohto zákona si Elektrotechnický ústav, vedecko-výskumná inštitúcia (skrátene v.v.i.) zvolila svoju Správnu radu v zložení:

RNDr. Vladimír Cambel, DrSc. – predseda SR
Ing. Jozef Fabian, CSc.
Ing. Ján Fedor, PhD
RNDr. Marianna Španková, PhD.
Ing. Milan Ťapajna, PhD.

a PSAV zvolilo Dozornú radu ElÚ SAV, v.v.i.:

prof. RNDr. Peter Samuely, DrSc. – Predseda DR
prof. Ing. Viera Stopjaková, PhD.
Ing. Romana Jurkiewiczová

Na jeseň prebehli voľby do Vedeckej rady podľa nových pravidiel, organizovala ich Správna rada. Členmi VR sa stali:
Interní členovia:

- RNDr. Dagmar Gregušová, DrSc. –predsedníčka
- Ing. Filip Gucmann, PhD. – podpredseda
- Ing. Boris Hudec, PhD. – tajomník
- doc. Ing. Fedor Gömöry, DrSc.
- Dr. rer. nat. Martin Hulman
- Mgr. Enric Pardo, PhD.
- Mgr. Michaela Sojková, PhD.

Externí členovia:

- doc. Ing. Peter Bokes, PhD.
- Ing. Roman Lupták, PhD.
- doc. Ing. Miroslav Mikolášek, PhD.
- doc. RNDr. Tomáš Plecenik, PhD.

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2022

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	13	1	-	-	144498	144498	-	3801
2. Projekty APVV	14	11	-	-	523256	380711	-	185086
3. Projekty EŠIF/OP ŠF	1	1	-	-	35645	35645	47612	-
4. Projekty SASPRO, MoRePro, IMPULZ	1	0	44448	44448	-	-	-	-
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	2	0	2000	2000	-	-	-	-

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2022

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2022	-	3	3
2. Projekty výziev EŠIF podané r. 2022	Bratislava		
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2022

Tabuľka 2c Medzinárodné projekty riešené v roku 2022

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	6	-	-	-	-	7000	13889
2. Projekty ERA.NET, ESA, JRP	0	1	-	-	-	-	25000	-
3. Projekty COST	0	3	-	-	-	-	5833	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	3	-	-	-	-	-	102872
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD, Mobility, Open Mobility	0	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	5	0	9567	9567	-	-	-	-
8. Podpora MVTS z národných zdrojov okrem 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 2022

Tabuľka 2d Počet projektov Horizont Európa v roku 2022

	A	B
Počet podaných projektov Horizont Európa	1	

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu

Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe B.

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

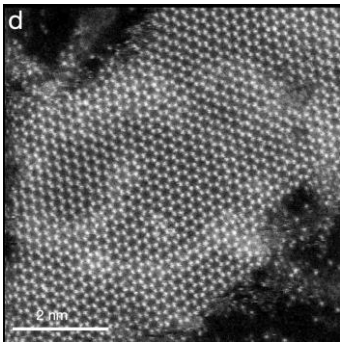
2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2022

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: Nový dvojrozmerný materiál: CuI
Riešitelia: V. Skákalová, M. Hulman a P. Kotrusz
Projekt: APVV-19-0365 (zodp. riešiteľ M. Hulman**)**

Súčasné 2D materiály primárne pochádzajú z van der Waalsových (vdW) vrstvených objemových štruktúr. Za normálnych laboratórnych podmienok však existuje len obmedzený počet takýchto štruktúr a celkovo bolo úspešne syntetizovaných alebo exfoliovaných iba niekoľko desiatok 2D kryštálov. Jedným z potenciálnych 2D materiálov, z množstva predpovedaných, je beta-fáza jodidu meďnatého (CuI), ktorá je však stabilná len v úzkom teplotnom rozmedzí od 645 K do 675 K.
Naša práca predstavuje novú metódu na stabilizáciu jednej vrstvy beta-Cul pomocou enkapsulácie medzi dve grafénové vrstvy za izbovej teploty a bežných laboratórnych podmienok. Tento nový 2D materiál sa syntetizuje priamo medzi vrstvami grafénu jednostupňovou mokrou chemickou metódou. Pomocou pokročilých experimentálnych techník sme komplexne charakterizovali jeho atómovú konfiguráciu a potvrdili stabilitu získanej heteroštruktúry pomocou výpočtov metódou funkcionálu hustoty.
Vzorky boli syntetizované v našom laboratóriu a charakterizované technikami elektrónovej mikroskopie na univerzitách vo Viedni, Tübingene a Antverpách. Medzitým sme už použili rovnaký proces na výrobu 2D kryštálov jodidu striebra (AgI) a niklu (NiI_2). Zovšeobecnenie tohto experimentálneho prístupu by mohlo viesť k syntéze ďalších exotických vrstvených štruktúr, čím sa výrazne rozšíri v súčasnosti dostupná knižnica 2D materiálov.



Obr. Snímok dvojrozmerného kryštálu CuI zo skenovacieho transmisného elektrónového mikroskopu.

Publikácia:
MUSTONEN, K.** - HOFER, C. - KOTRUSZ, P. - MARKEVICH, A. - HULMAN, Martin - MANGLER, C. - SUSI, T. - PENNYCOOK, T.J. - HRICOVÍNI, K. - RICHTER, C. - MEYER, J.C. - KOTAKOSKI, J.** - SKÁKALOVÁ, V.**. Towards 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). ISSN 0935-9648. Dostupné na: https://doi.org/10.1002/adma.202106922 Typ: ADCA

Názov: Supravodivé elektromotory pre lietadlá poháňané vodíkom
Riešitelia: E. Pardo, J. Kováč, A. Dadhich, M. Mošať, R. Ries, M. Solovyov, J. Šouc, Ľ. Kopera, T. Melišek
Projekt: APVV-19-0536, Horizon2020, No. 723119 (ASuMED)

Komerčná letecká doprava je významným zdrojom narastajúcich emisií skleníkových plynov (CO_2, NOx, H_2O vo vysokých nadmorských výškach). Medzinárodná asociácia leteckej dopravy (IATA) si dala za cieľ bezemisnú leteckú dopravu v západných krajinách do roku 2050. Supravodivé elektrické motory umožňujú pohon elektrických lietadiel a lietadiel na báze vodíka s nulovými emisiami. Obzvlášť sľubným konceptom je práve druhý menovaný, keďže kvapalný vodík s teplotou 20K je možné súčasne použiť ako chladiace médium pre supravodivé časti motora.
Na našom ústave sme vybudovali unikátny experimentálny systém na meranie striedavých strát v supravodivých REBCO vinutiach v statoroch motorov až do teploty 20 K. Keďže produktom akýchkoľvek strát je teplo, je nevyhnutná ich minimalizácia pre udržanie supravodivých vinutí v motore na nízkych teplotách (medzi 20 a 40 K). V rozpore s očakávaniami, merania ukázali, že pre straty cievky je dominantný zvyškový magnetizmus substrátu [1], čím sme na tento problém upozornili výrobcov supravodivých pások.
Taktiež sme pracovali na konceptoch znižovania efektov demagnetizácie priečneho poľa v rotoroch vyrobených zo supravodivých zväzkov pások REBCO [2], ktoré pôsobia ako silné permanentné magnety.

Publikácie:
[1] 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). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-022-20625-6 (APVV 19-0536. VEGA 2/0036/21) Typ: ADCA
[2] DADHICH, Anang - LI, S. - SOLOVYOV, Mykola - ŠOUC, Ján - MOŠAŤ, Marek - PARDO, Enric**. Reducing cross-field demagnetization of superconducting stacks by soldering in pairs. In Superconductor Science and Technology, 2022, vol. 35, no. 115001. (2021: 3.482 - IF, Q2 - JCR, 0.826 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: https://doi.org/10.1088/1361-6668/ac908f (APVV 19-0536. VEGA 2/0036/21) Typ: ADCA

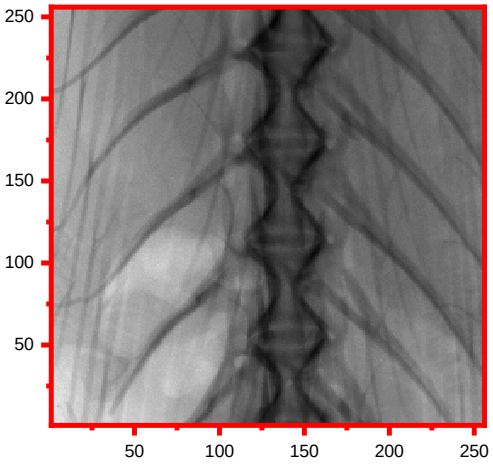
2.3.2. Výsledky aplikačného typu

Názov: Timepix3 radiačná kamera s využitím pixelového senzora na báze karbidu kremíka
Riešitelia: B. Zaťko, N. Gál, J. Osvald, P. Boháček, E. Kováčová
(Realizátor ADVACAM Praha)
Projekt: APVV-18-0273

V rámci APVV projektu sme vyvinuli a pripravili pixelové senzory na báze 4H-SiC vysokokvalitnej epitaxnej vrstvy. SiC je perspektívny polovodičový materiál, ktorý má viacero výhod. Je to širokopásmový polovodič, ktorý je schopný pracovať až pri teplotách niekoľko sto stupňov Celzia. Okrem toho je aj vysoko radiačne odolný a tým vhodný ako senzor ionizujúceho

žiarenia, najmä neutrónov a ťažkých nabitých častíc. Pripravili sme pixelové senzory optimalizované pre vyčítavací čip typu Timepix vyvinutý v CERNe. Detekčná časť sa skladá z 256×256 pixelov celkovej plochy 14,1×14,1 mm^2. Pre vyčítavaciu elektroniku typu Timepix sme sa rozhodli, pretože umožňuje viacero typov spracovania signálov z pixelového senzora. Okrem bežného zobrazovacieho módu je k dispozícii aj spektrometrický mód, v ktorom vieme identifikovať energetické spektrum dopadajúceho ionizujúceho žiarenia a tiež časový mód, kde môžeme jednotlivé pixelové udalosti rozlišovať s časovou presnosťou až 1.2 ns. V spolupráci s firmou ADVACAM (Praha) boli po prvýkrát na svete pripravené 2 prototypy plne funkčných radiačných kamier na báze 4H-SiC senzora (obrázok vľavo). Obrázok vpravo ukazuje rtg obraz kostry sardinky, ktorý je kvalitatívne porovnateľný s obdobnými dostupnými kamerami na báze Si senzora. Využitie SiC kamery sa predpokladá hlavne pri detekcii neutrónov alebo pri zobrazovaní pomocou neutrónov, čo je doplnková aplikácia k rtg zobrazovaniu.

Vľavo: prototyp Timepix3 radiačnej kamery s SiC senzorom



Vpravo: rtg obraz kostry sardinky zosnímaný vyvinutou novou radiačnou kamerou.

Publikácia:
ZAŤKO, Bohumír** - ŠAGÁTOVÁ, A. - GÁL, Norbert - NOVÁK, A. - OSVALD, Jozef - BOHÁČEK, Pavol - POLANSKY, Š. - JAKUBEK, J. - KOVÁČOVÁ, Eva. From a single silicon carbide detector to pixelated structure for radiation imaging camera. In Journal of Instrumentation, 2022, vol. 17, no. C12005. (2021: 1.121 - IF, Q4 - JCR, 0.428 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 1748-0221. Dostupné na: https://doi.org/10.1088/1748-0221/17/12/C12005 Typ: ADCA

2.3.3. Výsledky na báze medzinárodnej spolupráce

Názov: 3D ploter na báze nanášania po atómových vrstvách
Riešitelia: I. Kundrata, K. Fröhlich, B. Hudec
Partneri: Univerzita Erlangen, Sempa Systems (Nemecko), Atlant 3D Nanosystems (Dánsko), Femtika (Litva)
Projekt: ATOPLOT – 3D ploter na báze nanášania po atómových vrstvách, uviesť zahraničného partnera alebo medzinárodný program (Horizon2020)

Cieľom projektu bolo uvedenie do praxe konceptu 3D plottera atómových vrstiev, čo je kombinácia technológii nanášania po atómových vrstvách (ALD) a 3D tlače. Túto technológiu rozvíja partner Atlant 3D Nanosystems, dánsky startup, ktorého zakladateľom a CTO je Ivan Kundrata, doktorand ElÚ SAV. Srdcom technológie je unikátna tryska, ktorá slúži ako mini priestorové ALD (spatial ALD) systém, pričom jej presným pohybom nad substrátom je možné kresliť vrstvy po atómových vrstvách, ako pri ALD. Technológia bola patentovaná, pričom ElÚ SAV bol jedným z troch držiteľov tohto patentu.

Úlohou ElÚ SAV v projekte Atoplot bol návrh, dizajn a charakterizácia tzv. demonštrátorov, teda jednoduchých mikroelektronických súčiastok na ktorých bolo možné demonštrovať schopnosti plottera. ElÚ SAV tieto súčiastky vyrobil konvenčnými metódami používanými v mikroelektronike (litografia, depozícia PVD a ALD, tvarovanie) a tieto boli potom porovnávané so súčiastkami priamo "vytlačenými" pomocou plottera. Jednalo sa o senzor teploty na báze tenkej vrstvy platiny, kapacitný senzor vzdialenosti na báze tenko-vrstvových kruhových platinových elektród a senzor tlaku na báze piezoelektrickej ALD ZnO vrstvy.

Publikácia:
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). ISSN 2366-9608. Dostupné na: https://doi.org/10.1002/smtd.202101546 Typ: ADCA

2.4. Publikačná činnosť (zoznam je uvedený v prílohe C)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2022/ doplnky z r. 2021
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)	**48 / 0**
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	**7 / 0**
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	**1 / 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)	**24 / 0**
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	**0 / 0**
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	**1**
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 kvartilu vedeckého časopisu

Kvartil vedeckého časopisu	**Q1**	**Q2**	**Q3**	**Q4**	**Spolu**
Podľa IF z r. 2021 (zdroj JCR) *Počet článkov / doplnky*	17 / 0	19 / 0	11 / 0	2 / 0	49 / 0
Podľa SJR z r. 2021 (zdroj Scimago) *Počet článkov / doplnky*	28 / 0	20 / 0	3 / 0	4 / 0	55 / 0

Tabuľka 2g Ohlasy

OHLASY	**Počet v r. 2021/ doplnky z r. 2020**
Citácie vo WOS (1.1, 2.1)	1571 / 38
Citácie v SCOPUS (1.2, 2.2)	115 / 0
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)	8 / 0
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	49
Prednášky a vývesky na národných vedeckých podujatiach	44

2.6. Vyžiadané prednášky

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

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

1. **Feilhauer**, J., Mruczkiewicz, M., Šoltýs, J., Zelent, M., Vetrova, Iu.V., Krylov, S., Tóbik, J., Bublikov, K., Ščepka, T., Fedor, J., Dérer, J., and Cambel, V.: Noncollinear magnetic nanostructures as building blocks of topological magnonic crystals and magnetic force microscopy probes. In IEEE 12th Inter. Conf. Nanomater.: Applications & Properties. Krakow 2022.

2. **Gömöry**, **F**. and Solovyov, M.: Use of electromagnetic potentials for the modeling of critical state and AC losses in superconducting wires and cables. In: CIMTEC 2022 - 15th Inter. Conf. on Modern Mater. Technol. Perugia 2022.

3. **Gucmann**, F., Hušeková, K., Dobročka, E., Nádaždy, P., Rosová, A., Egyenes, F., Hrubišák, F., Keshtkar, J., Kubranská, A., and Ťapajna, M.: Ga_2O_3 vs heat: anisotropy, thermal stability, and heat removal. In: E-MRS 2022 Fall meeting, Warsaw 2022.

4. **Skákalová**, V.: Toward exotic layered materials: 2d metal iodide. In 16th Inter. Conf. on Nanostruct. Mater. NANO 2022. Seville 2022.

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

1. **Chromik**, Š., Španková, M., Rosová, A., Dobročka, E., Gregor, M., Vojteková, T., Cordier, Y., Pécz, B., and Giannazzo, F.: Structural properties of MoS_2 and WS_2 two-dimensional systems prepared by PLD method on some specific substrates. In: 12th Inter. Conf. Solid State Surfaces Interfaces Conf. - SSSI 2022. Smolenice 2022.

2. **Gömöry**, F.: Silnoprúdové aplikácie supravodičov. In 1. letná škola fyziky kond. látok. Liptovský Ján 2022.

3. **Gucmann**, F.: Mať nanoprsty v materiálovej vede. In: Vedecký seminár víťazov súťaže mladých vedeckých pracovníkov SAV do 35 rokov. Košice 2022.

4. **Moško**, M., Koscelanská, M., Plecenik, T., Volko, S., Gregor, M., Mošková, A., Vidiš, M., Durina, P., Roch, T., Grančič, B., Satrapinsky, L., Kúš, P., and Plecenik, A.: Point contact spectroscopy of superconductors using nanofilament in a titanium-oxide based memristor In: 12th Inter. Conf. Solid State Surfaces Interfaces Conf. - SSSI 2022. Smolenice 2022.

5. Pinčík, E., Kobayashi, H., Brunner, R., Mikula, M., **Kučera**, M., Vojtek, P., Zábudlá, Z., Greguš, J., and Bačová, S.: Porous silicon and solar cell application. In: 12th Inter. Conf. Solid State Surfaces Interfaces Conf. - SSSI 2022. Smolenice 2022.

6. **Tóbik**, J.: Umelé spinové kryštály, ich magnónové spektrum a možnosť manipulácie s ich základným stavom. In 26. konf. slov. fyzikov. Košice 2022.

7. Zehetner, J., **Vanko**, G., Dohnal, F., **Izsák**, T., Držík, M., and Kromka, A.: Recent challenges in micromachining of wide-bandgap materials and fabrication of MEMS for harsh environments. In 10th Inter. Conf. on Advances in Electron. Photon. Technol. - ADEPT. Tatranská Lomnica 2022.

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

1. **Gucmann**, F.: Ga_2O_3 vs heat: anisotropy, thermal stability, and heat removal. In Wuhan University, China 2022.

2. **Hutár**, P., Hulman, M., Hofer, Ch., Kotrusz, P., and Skákalová, V.: Advances in graphene preparation through chemical routes: Characterization and application. In Norwegian Inst. for Air Research 2022.

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2022

2.7.1. Vynálezy, na ktoré bol v roku 2022 udelený patent

a) na Slovensku

Názov vynálezu: Vertikálny GaN tranzistor s izolačným kanálom a spôsob jeho prípravy
Číslo patentu: SK289027
Dátum priority: 2017
Majiteľ / spolumajiteľ: Elektrotechnický ústav SAV
Pôvodcovia vynálezu: Kuzmík Ján

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2022

a) na Slovensku

b) v iných krajinách ako prioritná prihláška

c) PCT

Názov vynálezu: Veľkoplošný detector jadrových častíc a žiarenia s podložkou, spôsob jeho výroby a zapojenie obsahujúce veľkoplošný detektor
Krajina: Slovensko
Číslo prihlášky: PCT/SK2022/050004
Dátum priority: 21.3.2022
Majiteľ / spolumajiteľ: Elektrotechnický ústav SAV
Pôvodcovia vynálezu: Zaťko Bohumír, Dubecký František

d) EP

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 2022

b) udelené v roku 2022

Názov UV: Veľkoplošný detector jadrových častíc a žiarenia s podložkou, spôsob jeho výroby a zapojenie obsahujúce veľkoplošný detektor
Číslo UV: PUV50028-2021
Dátum udelenia: 19.2.2022
Majiteľ / spolumajiteľ UV: Elektrotechnický ústav SAV
Pôvodcovia UV: Zaťko Bohumír, Dubecký František

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 2022 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

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

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Hulman Martin	SAS-HAS Mobility Project	1
	VEGA	2
Chromik Štefan	VEGA	3
Rosová Alica	APVV	1
Sojková Michaela	VEGA	1
Španková Marianna	VEGA	1
Vanko Gabriel	VEGA	1

2.9. Účasť 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
Gömöry Fedor	0	0	28	0	0	0	0
Gregušová Dagmar	0	0	10	0	0	0	0
Gucmann Filip	0	0	11	0	0	0	0
Hudec Boris	0	0	6	0	0	0	0
Hulman Martin	0	0	2	0	0	0	0
Chromik Štefan	0	0	2	0	0	0	0
Kováč Pavol	0	0	19	0	0	0	0
Kuzmík Ján	0	0	7	0	0	0	0
Mošať Marek	0	0	3	0	0	0	0
Osvald Jozef	0	0	5	0	0	0	0
Pardo Enric	0	0	8	0	0	0	0
Rosová Alica	0	0	1	0	0	0	0
Skákalová Viera	0	0	4	0	0	0	0
Sojková Michaela	0	0	4	0	0	0	0
Soloviov Mykola	0	0	18	0	0	0	0
Španková Marianna	0	0	2	0	0	0	0
Ťapajna Milan	0	0	33	0	0	0	2
Vanko Gabriel	0	0	1	0	0	0	0

Varga Marian	0	0	3	0	0	0	0
Zaťko Bohumír	0	0	3	0	0	0	0
Spolu	**0**	**0**	**170**	**0**	**0**	**0**	**2**

2.11. Iné informácie k vedeckej činnosti.

3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku

3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2022

Forma	**Počet k 31.12.2022**				**Počet doktorandov po doktorandskej skúške**		**Počet ukončených doktorantúr v r. 2022**					
							Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí				ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Denná zo zdrojov SAV	9	3	3	1	4	2	1	1	0	0	0	0
Denná z iných zdrojov	4	1	0	0	4	1	0	0	0	0	0	0
Externá	1	0	0	0	1	2	0	0	0	2	0	0
Spolu	14	4	3	1	9	5	1	1	0	2	0	0
Z toho zahraničných	5	2	1	1	2	1	0	0	0	0	0	0
Súhrn	18		4		14		2		2		0	

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 2022 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.

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b 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	3	0	0	0	0	0

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2022 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 hodnosť
RNDr. Katarína Neilinger	interné štúdium hradené z prostriedkov SAV	9 / 2014	8 / 2022	4.1.3 fyzika kondenzovaných látok a akustika	Ing. Ján Šoltýs PhD, Elektrotechnický ústav SAV, v. v. i.	Fakulta matematiky, fyziky a informatiky UK

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

Tabuľka 3d Menný zoznam ukončených doktorandov v roku 2022 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 hodnosť
Ing. Marcel Talacko	interné štúdium hradené z prostriedkov SAV	9 / 2016	8 / 2022	5.2.48 fyzikálne inžinierstvo	RNDr. Marianna Španková PhD, Elektrotechnický ústav SAV, v. v. i.	Fakulta elektrotechniky a informatiky STU

3.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 3e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2022 (obhajoba leto 2022)	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
2	2	0	0	0

Zoznam interných a externých doktorandov je uvedený v prílohe A.

3.6. Medzinárodné doktorandské štúdium

Tabuľka 3f Počet študentov v medzinárodných programoch doktorandského štúdia

Cotutelle	Co-direction	Iné	Zahraniční doktorandi štátne občianstvo/počet
0	0	0	IRN/3, RUS/3, PAK/1

Zahraniční 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.

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

Tabuľka 3g 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)
fyzika	4.1.1	Fyzika kondenzovaných látok a akustika	Fakulta matematiky, fyziky a informatiky UK
fyzika kondenzovaných látok a akustika	4.1.3	Fyzika kondenzovaných látok a akustika	Fakulta matematiky, fyziky a informatiky UK
elektronika	5.2.13	Elektronika a fotonika	Fakulta elektrotechniky a informatiky STU
fyzikálne inžinierstvo	5.2.48	Fyzikálne inžinierstvo	Fakulta elektrotechniky a informatiky STU
elektrotechnika	5.2.9	Fyzikálne inžinierstvo	Fakulta elektrotechniky a informatiky STU

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.
Do 31. 8. 2023 študujú študenti doktorandského štúdia zaradení do študijných programov podľa zoznamu MŠVVaŠ, platného do 1. 9. 2019. Pre týchto študentov je potrebné napísať názov programu ako voľný text do stĺpca 3 a nevypĺňovať stĺpce 1 a 2.

Tabuľka 3h 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 hodnosť alebo vyšší kvalifikačný stupeň
RNDr. Vladimír Cambel, DrSc. (elektronika)	doc. Ing. Fedor Gömöry, DrSc. (Elektrotechnická fakulta ŽU)	RNDr. Katarína Neilinger, PhD. (IIb)
doc. RNDr. Edmund Dobročka, CSc. (fyzikálne inžinierstvo)	doc. Ing. Fedor Gömöry, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	Mgr. Enric Pardo, PhD. (I)
doc. Ing. Fedor Gömöry, DrSc. (fyzikálne inžinierstvo)	doc. Ing. Jozef Novák, DrSc. (Fakulta elektrotechniky a informatiky STU)	Ing. Marcel Talacko, PhD. (IIb)
RNDr. Dagmar Gregušová, DrSc. (elektrotechnika)		RNDr. Katarína Neilinger, PhD. (PhD., Fakulta matematiky,

		fyziky a informatiky UK)
RNDr. Dagmar Gregušová, DrSc. (elektronika)		Ing. Marcel Talacko, PhD. (PhD., Fakulta elektrotechniky a informatiky STU)
Dr. rer. nat. Martin Hulman (fyzika)		
Ing. Ján Kuzmík, DrSc. (teoretická elektrotechnika)		
Ing. Ján Kuzmík, DrSc. (elektronika)		
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)		
RNDr. Marianna Španková, PhD (elektrotechnika)		
Ing. Milan Ťapajna, PhD. (elektronika)		
Ing. Gabriel Vanko, PhD. (elektronika)		

3.8. Údaje o pedagogickej činnosti

Tabuľka 3i Prednášky a cvičenia vedené v roku 2022

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	2	0	6	0
Celkový počet hodín v r. 2022	8	0	40	0

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

Tabuľka 3j Aktivity pracovníkov na VŠ

1.	**Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác**	9
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	9
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	15
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	19
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**	2
8.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác**	1
9.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách**	1

3.9. Iné dôležité informácie k pedagogickej činnosti

Ústav pozýva zahraničných odborníkov, aby predstavili výsledky v rôznych oblastiach výskumu. V tomto roku odzneli prednášky:

- Dr. Chao Yuan (The Institute of Technological Sciences, Wuhan University, China): Pump-probe thermoreflectance techniques for non-contact and non-invasively characterizing the thermal properties of wide bandgap semiconductors
- prof. Pierra Ruterana, (Centre de Recherche sur les Ions, les Matériaux et la Photonique (CIMAP), Univ. Caen, Normandie): Dislocations and inversion domains in the wurtzite structure: a case study by HRTEM in GaN and ZnO
- Dr. Tetiany Kalmykovej (O.Ya. Usikov Institute for Radiophys. and Electron. (IRE) of NAS of Ukraine, Kharkov, v súčasnosti ElÚ SAV): Magnetoresonance Properties Of Complexly Structured Nanostructures
- Christoph Hofer (Univ. Antwerpen EMAT): Fast efficient imaging in scanning transmission electron microscopy via event driven ptychography
- F. Bondino (IOM-CNR, Laboratorio TASC, Trieste): BACH beamline: a multi-spectroscopy surface science approach for the investigation of advanced functional materials

- prof. Dr. Jani Kotakoski (Phys. Nanostructured Mater., Univ. Vienna): Atomic-scale tailoring of 2D materials
- Dr. Sarah M. Bayer-Skoff (Atominstitut, TU Wien): Enhancing light-matter interactions for quantum technologies

Ústav spoluprácuje na výučbe predmetov Elektromagnetické prvky a systémy a Nanotechnológie na FEI STU a Praktikum Fyziky tuhých látok na FMFI UK.

· Tradične Ústav zamestnáva VŠ študentov formou VPS. Ich práca často vyústi do prípravy semestrálnych, bakalárskych a diplomových prác. V r. 2022 ich bolo 8.

F. Gömöry (Godár FEI STU)
Š. Chromik (Bennár diplomant FEI STU)
J. Šoltýs (Vajda diplomant FEI STU)
M. Sojková (V. Tašková diplomantka FEI STU)
Zápražný / Ferkodič (diplomant MTF STU)
R. Ries (Hlaváč bakalár FEI STU)
J. Šouc (Haško bakalár FEI STU)
A. Rosová (A. Kubranská diplomantka FEI STU)
B. Hudec (M. Horský, študent FEI STU)

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2022 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2023 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Gömöry Fedor	1	0	1
Španková Marianna	1	0	0
Spolu	2	0	1

4.2. Členstvo a funkcie v medzinárodných orgánoch

4.2.1. Členstvo a funkcie v medzinárodných vedeckých spoločnostiach, úniách a národných komitétoch SR

doc. Ing. Fedor Gömöry, DrSc.

Applied Superconductivity Educational Foundation (ASEF) (funkcia: člen výboru)
European Society for Applied Superconductivity (funkcia: člen výboru)

Ing. Pavol Kováč, DrSc.

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

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

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Gömöry Fedor	Deutsche Forschungsgemeinschaft (DFG) Nemecko	1
	Fund for Scientific Research, Belgicko	1
	Times Higher Education World University Rankings	1
Ťapajna Milan	EIG Concert-Japan	4

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

Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe E.
Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe B.

5. Koncepcia dlhodobého rozvoja organizácie

5.1. Odporúčania z posledného pravidelného hodnotenia organizácií SAV (akreditácie)

Odporúčané nám boli aktivity, do ktorých sme aj tak chceli investovať

1. Venovať sa novým témam, potláčať menej úspešné
2. Investovať do obnovy prístrojov ústavu
3. Naďalej zlepšovať stratégiu v spolupráci s medzinárodným poradným zborom (IAB)
4. Investovať do obnovy vedcov, doktorandov, postdoktorandov
5. Investovať viac do transferu technológií (IPR, patentovanie, licencie, spin-off a pod.)

5.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

Náš ústav aj pomocou IAB kontroluje plnenie Strategického plánu vzmysle Organizačného poriadku ElÚ SAV, v.v.i.

5.3. Aktualizácia Akčného plánu organizácie v roku 2022

Podľa odporúčaní IAB budeme aktualizovať Strategický plán na jar 2023.

6. Spolupráca s univerzitami/vysokými školami a inými subjektmi v oblasti vedy a techniky, okrem aktivít uvedených v kap. 2, 3, 4

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: Dlhodosahový jav blízkosti v supravodič/feromagnet heteroštruktúrach
Agentúra: APVV
číslo projektu: 19-0303
Spolupracujúce inštitúcie: FMFI UK
Koordinátor projektu: FMFI UK
Začiatok spolupráce: 2020
Koniec spolupráce: 2023
Zhodnotenie:

Názov projektu: Metalické 2D dichalkogenidy prechodných kovov: príprava, štúdium vlastností a korelované stavy
Agentúra: APVV
číslo projektu: 19-0365
Spolupracujúce inštitúcie: FMFI UK
Koordinátor projektu: ElÚ SAV
Začiatok spolupráce: 2020

Koniec spolupráce: 2023
Zhodnotenie:

Názov projektu: Robustné spinové vlny pre budúce magnonické aplikácie
Agentúra: APVV
číslo projektu: 19-0311
Spolupracujúce inštitúcie: FMFI UK
Koordinátor projektu: ElÚ SAV
Začiatok spolupráce: 2020
Koniec spolupráce: 2023
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: 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: ElÚ SAV
Začiatok spolupráce: 2022
Koniec spolupráce: 2025
Zhodnotenie:

Názov projektu: Fotonické labortórium 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: ElÚ 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: ElÚ SAV
Začiatok spolupráce: 2021
Koniec spolupráce: 2025
Zhodnotenie:

Názov projektu: Radiačne odolnejší senzor pre RTG zobrazovanie vyššej kvality
Agentúra: APVV
číslo projektu: 18-0273
Spolupracujúce inštitúcie: Ústav jadrového a fyzikálneho inžinierstva FEI STU
Koordinátor projektu: Ústav jadrového a fyzikálneho inžinierstva FEI STU
Začiatok spolupráce: 2019
Koniec spolupráce: 2023
Zhodnotenie:

Názov projektu: Výskum radiačne odolných polovodičových detektorov pre jadrovú energetiku
Agentúra: APVV
číslo projektu: 18-0243

Spolupracujúce inštitúcie: Ústav jadrového a fyzikálneho inžinierstva FEI STU
Koordinátor projektu: ElÚ SAV
Začiatok spolupráce: 2019
Koniec spolupráce: 2022
Zhodnotenie:

Názov projektu: Vysokoodolné polovodičové senzory ionizujúceho žiarenia pre využitie v radiačnom prostredí
Agentúra: VEGA
číslo projektu: 2/0084/20
Spolupracujúce inštitúcie: Ústav jadrového a fyzikálneho inžinierstva FEI STU
Koordinátor projektu: ElÚ SAV
Začiatok spolupráce: 2020
Koniec spolupráce: 2023
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

Príprava spoločného projektu IPCEI s firmou Bizzcom s.r.o.

7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi

7.1. Výsledky výskumu organizácie aplikované v spoločenskej a hospodárskej praxi

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

7.3. Iné formy aplikácie výsledkov výskumu v spoločenskej a hospodárskej praxi

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

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
RNDr. Vladimír Cambel, DrSc.	Rozvoj spolupráce s Taiwanom	Ministerstvo hospodárstva SR
	Práca na Koncepcii mikroelektroniky SR	Ministerstvo hospodárstva SR

doc. Ing. Fedor Gömöry, DrSc.	Akreditačná komisia	člen Pracovnej skupiny pre elektrotechniku
	SKVH	člen
Ing. Pavol Kováč, DrSc.	SKVH	člen
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 samosprávy
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
doc. Ing. Fedor Gömöry, DrSc.	Grantová agentúra MŠ - APVV	Člen Rady pre technické vedy
	Grantová agentúra MŠ - APVV	Člen Rady pre periodické hodnotenie výskumnej, vývojovej, umeleckej a ďalšej tvorivej činnosti
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 vládnymi a parlamentnými orgánmi alebo pre ich potrebu

9. Vedecko-organizačné a popularizačné aktivity

9.1.Vedecko-popularizačná činnosť

Tabuľka 9a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	1	tlač	3	TV	1
rozhlas	0	internet	2	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	2				

9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov

9.3. Účasť na výstavách
9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Osvald Jozef	0	0	1
Vanko Gabriel	0	0	1
Spolu	0	0	2

9.5. Členstvo v redakčných radách časopisov

doc. Ing. Fedor Gömöry, DrSc.

IEEE Transactions on Applied Superconductivity (funkcia: člen)

RNDr. Dagmar Gregušová, DrSc.

Electronic Materials - mdpi (funkcia: člen)

Ing. Filip Gucmann, PhD.

MDPI Materials, special issue Wide and Ultra-Wide Bandgap Semiconductor Materials for Power Devices (funkcia: guest editor)

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.

MDPI Materials, special issue Wide and Ultra-Wide Bandgap Semiconductor Materials for Power Devices (funkcia: guest editor)
Semiconductor Science and Technology (funkcia: člen)

Ing. Jaroslav Tóbik, PhD.

Scientific Reports (funkcia: člen)

9.6. Činnosť v domácich vedeckých spoločnostiach

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

Na slávnostnom bankete Elektrotechnického ústavu SAV, v. v. i., ktorý sa uskutočnil 24. mája 2022 v Kongresovom centre v Smoleniciach, vedenie a vedecká rada ústavu po druhý raz ocenila svojich významných pracovníkov udelením Medaily ElÚ SAV Ivana Hlásnika. Na slávnostnom podujatí sa okrem zamestnancov ElÚ SAV zúčastnili aj predseda SAV prof. RNDr. Pavol Šajgalík, DrSc., podpredseda SAV pre vedu, výskum a inovácie prof. RNDr. Peter Samuely, DrSc., a podpredseda SAV pre 1. oddelenie vied Mgr. Martin Venhart, PhD.
Medaila ElÚ SAV, ktorú sa ústav rozhodol udeľovať ako ocenenie svojim pracovníkom, ako aj vedcom mimo SAV, bola nazvaná podľa významnej osobnosti ElÚ SAV Ing. Ivana Hlásnika, DrSc., bývalého riaditeľa ústavu. Medaila sa udeľuje osobnostiam, ktoré sa výrazným spôsobom zaslúžili o rozvoj ElÚ SAV, zvýšenie kreditu ústavu v zahraničí, ako aj rozvoj vedy a výskumu na Slovensku i v zahraničí. Historicky prvá Medaila ElÚ SAV Ivana Hlásnika bola venovaná jeho pozostalej rodine. V tomto roku sa medaily odovzdávali po dlhšej prestávke spôsobenej covidom a ocenenia udelili vo viacerých kategóriách.
Za mimoriadny vedecký a organizačný prínos k rozvoju ElÚ SAV boli ocenení doc. Ing. Fedor Gömöry, DrSc., a Ing. Karol Fröhlich, DrSc. Cenu za celoživotné dielo, ktoré významne prispelo k rozvoju vedy a výskumu na Slovensku a v zahraničí, získali Ján Dérer a Ľubomír Kopera. Prof. Goran Karapetrov z Drexel University vo Filadelfii, USA, získal vyznamenanie za mimoriadne zásluhy o rozvoj medzinárodnej spolupráce ElÚ SAV a za výsledky získané v rámci tejto spolupráce.
Na záver sa prítomným prihovoril predseda SAV, ktorý vyzdvihol význam ElÚ SAV, v. v. i., a zablahoželal laureátom Medaily ElÚ SAV Ivana Hlásnika.

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		2183
z toho	knihy a zviazané periodiká	1217
	audiovizuálne dokumenty	
	elektronické dokumenty (vrátane digitálnych)	146
	mikroformy	
	iné špeciálne dokumenty - dizertácie, výskumné správy	819
	Rukopisy, vzácne tlače	
Počet titulov dochádzajúcich periodík		3
z toho zahraničné periodiká		1
Ročný prírastok knižničných jednotiek		4
v tom	kúpou	1
	darom	3
	výmenou	
	bezodplatným prevodom	
	náhradou	

Úbytky knižničných jednotiek	0
Knižničné jednotky spracované automatizovane	2183

*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“.*

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu (riadok 1)		
v tom z r. 1	prezenčné výpožičky	
	absenčné výpožičky	
v tom z r. 1	odborná literatúra pre dospelých	
	výpožičky periodík	
MVS iným knižniciam		
MVS z iných knižníc		
MMVS iným knižniciam		
MMVS z iných knižníc		
Počet vypracovaných bibliografií		
Počet vypracovaných rešerší		254

10.3. Používatelia

Tabuľka 10c Používatelia

Registrovaní používatelia	118
Návštevníci knižnice spolu (bez návštevníkov podujatí)	0

10.4. Iné údaje

Tabuľka 10d Iné údaje

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

10.5. Iné informácie o knižničnej činnosti

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

11.3. Členstvo v komisiách SAV

RNDr. Vladimír Cambel, DrSc.

- Etická komisia SAV (člen)

Ing. Ján Fedor, PhD

- Kontrolná rada areálu 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)

11.4. 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 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)

12. Hospodárenie organizácie

12.1. Výdavky organizácie

Tabuľka 12a Výdavky organizácie (skutočnosť k 31. 12. 2022 v €)

Typ organizácie (v. v. i.)		**Zdroje, z ktorých sa kryli jednotlivé výdavky**			
Výdavky	**Spolu**	**kapitola SAV (111)**	**iné štátne a verejné zdroje**	**ostatné zdroje**	**% krytia z kapitoly SAV**
1. Bežné výdavky	4 054 736,70	2 438 538,30	1 346 007,39	270 191,01	60,14
z toho: mzdy (610)	1 948 937,12	1 511 886,00	337 537,19	99 513,93	77,57
vedecká výchova štipendiá (640)	127 481,60	118 942,25	300,00	8 239,35	93,30
poistné a príspevok do poisťovní (620)	672 485,31	514 595,67	118 805,99	39 083,65	76,52
tovary a služby (630)	696 407,23	267 914,38	330 021,42	98 471,43	38,47
transfery partnerom projektov (640)	609 425,44	25 200,00	559 342,79	24 882,65	4,14
2. Kapitálové výdavky	73 832,51	19 892,51		53 940,00	26,94
z toho: obstarávanie kapitálových aktív	73 832,51	19 892,51		53 940,00	26,94
kapitálové transfery	0,00	0,00	0,00	0,00	0,00

12.2. Zdroje financovania organizácie

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2022 v €)

Typ organizácie (v. v. i.)		**Z toho kategórie**			
Zdroje	**Spolu**	**Kapitálové zdroje**	**zdroje na mzdy (610)**	**zdroje na odvody do poisťovní (620)**	**zdroje na transfery partnerom projektov**
1. kapitola SAV (111)	2 438 538,30	30 530,00	1 511 886,00	514 595,67	0,00
z toho: VEGA	126 750,00	23 430,00			0,00
MVTS výskumné projekty	50 479,00	7 100,00			0,00
MVTS podpora	9 000,00				0,00
SASPRO/MOREPRO	12 000,00				0,00
Vydávanie časopisov	0,00				0,00
Vedecká výchova (štipendiá)	125 214,25				0,00
OTAS (630)	88 613,38				0,00
2. ŠF EÚ vr. fin. zo ŠR	636 698,01		74 453,39	26 306,09	398 388,50
3. medzinárodné grantové projekty	259 660,45		63 345,29	22 843,99	0,00
z toho: H2020	259 660,45		63 345,29	22 843,99	0,00
4. iné štátne a verejné zdroje (spolu)	822 963,00		262 783,80	92 499,90	142 845,00
z toho: APVV	720 091,00		209 308,80	73 676,70	142 845,00
podpora z kapitoly MŠVVaŠ SR (stimuly)	102 872,00		53 475,00	18 823,20	0,00
5. ostatné zdroje	121 757,53				0,00
z toho: príjmy z prenájmu	0,00				0,00
príjmy z podnikateľskej činnosti	0,00				0,00
príjmy z expertnej činnosti a služieb	121 757,53				0,00

13. Nadácie a fondy pri organizácii SAV

14. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

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

V ElÚ SAV, v.v.i. sú princípy rodovej rovnosti (RR) dôsledne dodržiavané, náš ústav bol v tomto zmysle označený hlavným riešiteľom projektu Athena (G. Bianchim) ako „ostrov pozitívnej deviácie v rámci SAV“. Je to najmä kvôli ústretovosti voči pracovníčkam na a po materskej/rodičovskej dovolenke a vďaka Komisii pre rodovú rovnosť a etické problémy, ktorá má na ústave dohľad nad dodržiavaním princípov RR.
O našich skúsenostiach s dodržiavaním RR sme podali informácie na dvoch podujatiach. Prvou bola Akadémia 21.storočia – cestou inklúzií vo výskume av inováciách (CVTI, 3.október 2021), na ktorej prezentovala Mgr. Miroslava Blázyová príspevok „Rodová rovnosť na Elektrotechnickom ústave SAV, v.v.i“.
Druhým podujatím bol seminár usporiadaný riešiteľmi projektu Athena, kde riaditeľ ústavu V. Cambel podal pre riaditeľov ostatných ústavov informáciu na rovnakú tému „Rodová rovnosť na Elektrotechnickom ústave SAV, v.v.i“.

14.2. Rodová skladba hlavných riešiteľov (vedúcich) projektov

Tabuľka 14a 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	13	10	3	1	1	0
2. Projekty APVV	14	14	0	11	9	2
3. Projekty EŠIF/OP ŠF	1	1	0	1	1	0
4. Projekty SASPRO, MoRePro, IMPULZ	1	1	0	0	0	0
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	2	0	2	0	0	0

Tabuľka 14b 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	6	6	0
2. Projekty ERA.NET, ESA, JRP	0	0	0	1	1	0
3. Projekty COST	0	0	0	3	3	0
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	0	0	3	2	1
5. Projekty v rámci medzivládnych dohôd	0	0	0	0	0	0
6. Bilaterálne projekty MAD, Mobility, Open Mobility	0	0	0	0	0	0
7. Bilaterálne projekty ostatné	5	3	2	0	0	0
8. Podpora MVTS z národných zdrojov okrem 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

14.3. Výskum zameraný na rodovú problematiku

Uveďte 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 C.

15. Iné významné činnosti organizácie SAV

16. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2022

16.1. Domáce ocenenia

16.1.1. Ocenenia SAV

Búran Marek
Súťaž doktorandov a mladých vedeckých pracovníkov do 35 rokov
Oceňovateľ: SAV
Opis: 2. miesto

Gömöry Fedor
Zlatá medaila SAV
Oceňovateľ: SAV

Gucmann Filip
Ocenenie špičkových publikácií SAV
Oceňovateľ: SAV
Opis: V kategórii Špičkové časopisecké publikácie

Gucmann Filip
Súťaž doktorandov a mladých vedeckých pracovníkov do 35 rokov
Oceňovateľ: SAV
Opis: 2. miesto

Mruczkiewicz Michal
Špičková publikácia SAV
Oceňovateľ: SAV
Opis: kategoria Nature Index

Sojková Michaela
Špičková publikácia SAV
Oceňovateľ: SAV
Opis: kategória Nature Index

Vetrova Iuliia
Špičková publikácia SAV
Oceňovateľ: SAV
Opis: kategoria Nature Index

16.1.2. Iné domáce ocenenia

Búran Marek
Študentská osobnosť Slovenska akad. r. 2021/2022
Oceňovateľ: Junior Chamber International-Slovakia
Opis: 1. miesto v kategórii Elektrotechnika, priemyselné technológie za mimoriadne výsledky v študijnej ako aj vedecko-výskumnej oblasti

Hrdá Jana
Študent roka 2022
Oceňovateľ: Rektor STU

16.2. Medzinárodné ocenenia

Varga Marian
The Best Poster Contest NANOCON 2022
Oceňovateľ: TANGER Ltd.
Opis: https://www.nanocon.eu/en/contests/

17. Poskytovanie informácií v súlade so zákonom č. 211/2000 Z. z. o slobodnom prístupe k informáciám v znení neskorších predpisov (Zákon o slobode informácií)

18. Problémy a podnety pre činnosť SAV

Správu o činnosti organizácie SAV spracoval(i):

RNDr. Vladimír Cambel, DrSc., 02/ 5922 2552, 2555
Ing. Jozef Fabian, CSc, 02/ 5922 2658
PhDr. Anna Gömöryová, 0903 919 384

Schválila vedecká rada organizácie SAV dňa 17. 1. 2023

Riaditeľ organizácie SAV	**Predseda vedeckej rady**
.....	.....
RNDr. Vladimír Cambel, DrSc.	RNDr. Dagmar Gregušová, DrSc.

Prílohy

Príloha A
Zoznam zamestnancov a doktorandov organizácie k 31.12.2022

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.	doc. Ing. Fedor Gömöry, DrSc.	100	1.00
3.	RNDr. Dagmar Gregušová, DrSc.	100	1.00
4.	Ing. Štefan Chromik, DrSc.	40	0.40
5.	Ing. Pavol Kováč, DrSc.	100	1.00
6.	Ing. Ján Kuzmík, DrSc.	100	1.00
7.	doc. RNDr. Martin Moško, DrSc.	40	0.18
8.	doc. Ing. Jozef Novák, DrSc.	60	0.60
9.	Ing. Jozef Osvald, DrSc.	40	0.40
10.	doc. Ing. Viera Skákalová, DrSc.	60	0.60
Samostatní vedeckí pracovníci			
1.	Ing. Michal Blaho, PhD.	100	1.00
2.	RNDr. Pavol Boháček, CSc.	40	0.40
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 Gucmann, 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.	RNDr. Dušan Korytár, CSc.	25	0.25
12.	Mgr. Peter Kotrusz, PhD.	100	0.40
13.	Mgr. Ján Kováč, PhD.	100	1.00
14.	RNDr. Michal Kučera, PhD	50	0.50
15.	Ing. Róbert Kúdela, CSc.	40	0.40
16.	Mgr. Agáta Laurenčíková, PhD.	100	0.50
17.	Ing. Peter Lobotka, CSc.	20	0.20

18.	RNDr. Antónia Mošková, CSc.	100	1.00
19.	Dr. Michal Mruczkiewicz	25	0.38
20.	Mgr. Enric Pardo, PhD.	100	1.00
21.	Ing. Marián Precner, PhD.	100	1.00
22.	Ing. Alica Rosová, CSc.	100	1.00
23.	Mgr. Eugen Seiler, PhD	100	1.00
24.	Mgr. Michaela Sojková, PhD.	100	1.00
25.	Mgr. Mykola Soloviov, PhD.	100	1.00
26.	Ing. Roman Stoklas, PhD.	100	1.00
27.	Ing. Ján Šoltýs, PhD	100	1.00
28.	Ing. Ján Šouc, CSc.	80	0.80
29.	RNDr. Marianna Španková, PhD	100	1.00
30.	Ing. Milan Ťapajna, PhD.	75	0.75
31.	Ing. Jaroslav Tóbik, PhD.	80	0.80
32.	Ing. Gabriel Vanko, PhD.	100	1.00
33.	Ing. Marian Varga, PhD.	100	1.00
34.	Ing. Zdenko Zápražný, PhD.	100	1.00
35.	Mgr. Bohumír Zaťko, PhD	100	1.00
Vedeckí pracovníci			
1.	Mgr. Konstantin Bublikov, PhD.	100	0.53
2.	MSc. Anang Dadhich, PhD.	100	1.00
3.	Ing. Jozef Fabian, CSc	100	1.00
4.	Ing. Norbert Gál, PhD.	100	0.83
5.	Ing. Ladislav Hrubčín, CSc.	20	0.15
6.	Mgr. Peter Hutár, PhD.	100	1.00
7.	RNDr. Tetiana Kalmykova, PhD.	100	0.75
8.	Ing. Tomáš Kujovič, PhD.	100	1.00
9.	Ing. Marek Mošať, PhD.	100	1.00
10.	Mgr. Peter Nádaždy, PhD.	50	0.50
11.	RNDr. Katarína Neilinger, PhD.	80	0.67
12.	RNDr. Lenka Pribusová Slušná, PhD.	100	1.00
13.	Ing. Rastislav Ries, PhD.	100	1.00
14.	Dr. Arpit Kumar Srivastava	100	1.00
15.	Ing. Tomáš Ščepka, PhD.	100	1.00
16.	Ing. Marcel Talacko, PhD.	100	0.67

Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Ing. Michal Bennár	10	0.03
2.	Ing. Dušan Berek	100	1.00
3.	Ing. Marek Búran	100	0.40
4.	Mgr. Fridrich Egyenes	100	0.40
5.	Ing. Peter Eliáš	100	1.00
6.	MSc. Ghazaleh Esmaeili Dehaghi	10	0.28
7.	Ing. Lubomír Frolek	100	1.00
8.	Ing. Stanislav Hasenöhrl	100	1.00
9.	Mgr. Jana Hrdá	10	0.10
10.	Ing. Fedor Hrubišák	10	0.10
11.	MSc. Arif Hussain	10	0.10
12.	Ing. Imrich Hušek	100	1.00
13.	RNDr. Kristína Hušeková	100	1.00
14.	MSc. Javad Keshtar	10	0.10
15.	Ing. Eva Kováčová	100	1.00
16.	Sergei Krylov	10	0.10
17.	Ing. Martin Kucharovič	10	0.10
18.	Ing. Tibor Melišek	60	0.63
19.	MSc. Saviz Parsa Saeb	10	0.10
20.	Mgr. Michal Pecz	10	0.37
21.	Ing. Ondrej Pohorelec	100	1.00
22.	Mgr. Mária Sekáčová	60	0.60
23.	Mgr. Peter Šichman	100	1.00
24.	Mgr. Iuliia Vetrova	100	0.60
25.	Mgr. Tatiana Vojteková	10	0.10
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Mgr. Miroslava Blázyová	100	1.00
2.	PhDr. Anna Gömöryová	100	1.00
3.	Ing. Pavol Mozola	100	1.00
4.	Mgr. Vojtech Ogrodnik	40	0.40
5.	Ing. Marta Zofcsáková	100	1.00
6.	Mgr. Eva Žiačiková	100	0.75
Odborní pracovníci ÚSV			
1.	Juraj Arbet	100	1.00

2.	Ján Dérer	60	0.60
3.	Michal Gerboc	100	1.00
4.	Iveta Grófova	100	1.00
5.	Martin Grujbár	100	1.00
6.	Ľubomír Kopera	100	1.00
7.	Magdaléna Krajčírová	100	1.00
8.	Peter Martiš	100	1.00
9.	Darina Ružičková	100	0.08
10.	Jana Ryzá	100	1.00
11.	Alena Seifertová	100	1.00
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
Ostatní pracovníci			
1.	Jolana Častková	100	1.00
2.	Kvetoslava Hamburgová	100	1.00
3.	Iveta Putiková	100	1.00
4.	Ivo Šimek	50	0.55
5.	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.	Ing. Karol Fröhlich, DrSc.	30.6.2022	0.25
Samostatní vedeckí pracovníci			
1.	Ing. Jozef Huran, CSc.	30.6.2022	0.00
2.	Ing. Peter Lobotka, CSc.	31.12.2022	0.20
Odborní pracovníci ÚSV			
1.	Karol Schwarz	30.11.2022	0.46
2.	Margita Valentínová	30.6.2022	0.45
Ostatní pracovníci			
1.	Milan Kantner	30.6.2022	0.50

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Ing. Michal Bennár	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
2.	Mgr. Konstantin Bublikov	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
3.	MSc. Ghazaleh Esmaeili Dehaghi	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
4.	Mgr. Jana Hrdá	Fakulta elektrotechniky a informatiky STU	5.2.9 elektrotechnika
5.	Ing. Fedor Hrubišák	Fakulta elektrotechniky a informatiky STU	5.2.9 elektrotechnika
6.	MSc. Arif Hussain	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
7.	MSc. Javad Keshtar	Fakulta elektrotechniky a informatiky STU	5.2.9 elektrotechnika
8.	Sergei Krylov	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
9.	Ing. Martin Kucharovič	Fakulta elektrotechniky a informatiky STU	5.2.9 elektrotechnika
10.	MSc. Saviz Parsa Saeb	Fakulta elektrotechniky a informatiky STU	5.2.9 elektrotechnika
11.	Mgr. Michal Pecz	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
12.	Mgr. Tatiana Vojteková	Fakulta matematiky, fyziky a informatiky UK	4.1.1 fyzika
Interní doktorandi hradení z iných zdrojov			
1.	Ing. Marek Búran	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
2.	Mgr. Fridrich Egyenes	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
3.	Ing. Ondrej Pohorelec	Fakulta elektrotechniky a informatiky STU	5.2.13 elektronika
4.	Mgr. Peter Šichman	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
5.	Mgr. Iuliia Vetrova	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
Externí doktorandi			
1.	Ing. Ivan Kundrata	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika

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
1.	Ing. František Dubecký, CSc.

Príloha B
Projekty riešené v organizácii

Medzinárodné projekty

Programy: COST

1.) 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:	- Podpora medzinárodnej spolupráce z národných zdrojov: 3333 €

2.) Ultrarýchla magneto-optoelektronika pre nedisipatívnu informačnú technológiu *(Ultrafast opto-magneto-electronics for non-dissipative information technology)*

Zodpovedný riešiteľ:	Michal Mruczkiewicz
Trvanie projektu:	3.10.2018 / 2.10.2022
Evidenčné číslo projektu:	CA17123
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Radboud University, Nijmegen
Počet spoluriešiteľských inštitúcií:	33 - Belgicko: 1, Bulharsko: 2, Česko: 3, Nemecko: 1, Dánsko: 2, Španielsko: 1, Fínsko: 1, Francúzsko: 2, Veľká Británia: 1, Grécko: 2, Chorvátsko: 1, Maďarsko: 1, Švajčiarsko: 1, Island: 2, Taliansko: 2, Holandsko: 1, Nórsko: 1, Poľsko: 1, Portugalsko: 1, Rumunsko: 1, Srbsko: 2, Slovinsko: 1, Švédsko: 1, Turecko: 1
Čerpané financie:	-

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:	- Podpora medzinárodnej spolupráce z národných zdrojov: 2500 €

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 / 31.5.2024
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:	MŠ: 102872 €

Dosiahnuté výsledky:
Gömöry, F.: Probability of premature quenching of HTS coil due to local reduction of critical current, IEEE Trans. Applied Supercond. 32 (2022) 4604005.

Programy: International Visegrad Fund (IVF)

5.) 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:	-

Programy: Bilaterálne - iné

6.) Dichalkogenidy prechodových kovov s topologickými fázami: predikcie, syntéza a vlastnosti *(Topological transition-metal dichalcogenides: prediction, synthesis and properties)*

Zodpovedný riešiteľ:	Martin Hulman
Trvanie projektu:	1.4.2021 / 31.12.2022
Evidenčné číslo projektu:	SASA-SAS 21-02
Organizácia je	áno

koordinátorom projektu:	
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 567 €

7.) Príprava a charakterizácia veľmi tenkých vrstiev TMD materiálov na atomárnej škále *(The preparation and atomic-scale characterization of ultrathin films of TMD materials)*

Zodpovedný riešiteľ:	Martin Hulman
Trvanie projektu:	1.4.2021 / 31.12.2022
Evidenčné číslo projektu:	SK-AT-20-0020
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

8.) Optimalizácia škálovateľného rastu tenkých vrstiev dichalkogenidov prechodných kovov a nové heterostruktúry na použitie v elektronike a pokročilé senzory *(Optimization of the scalable growth of transition metal dichalcogenide thin films and novel heterostructures for application in electronics and advanced sensors)*

Zodpovedný riešiteľ:	Michaela Sojková
Trvanie projektu:	1.1.2021 / 31.12.2022
Evidenčné číslo projektu:	SAV-CNR
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 3000 € Podpora medzinárodnej spolupráce z národných zdrojov: 3000 €

Dosiahnuté výsledky:

Vegso, K., Shaji, A., Sojková, M., Pribusová Slušná, L., Vojteková, T., Hrdá, J., Halahovets, Y., Hulman, M., Jergel, M., Majková, E., Wiesmann, J., and Šiffalovič, P.: A wide-angle X-ray scattering laboratory setup for tracking phase changes of thin films in a chemical vapor deposition chamber, Rev. Sci Instrum. 93 (2022) 113909.

Shaji, A., Vegso, K., Sojková, M., Hulman, M., Nádaždy, P., Halahovets, Y., Pribusová Slušná, L., Vojteková, T., Hrdá, J., Jergel, M., Majková, E., Wiesmann, J., and Šiffalovič, P.: Stepwise sulfurization of MoO_3 to MoS_2 thin films studied by real-time X-ray scattering, Applied Surface Sci 606 (2022) 154772.

9.) Pulzná laserová depozícia 2D polovodičov na nitridy pre pokročilú elektroniku *(PULSEd laser deposition of 2D semiconductors on nitrides for advanced electronics)*

Zodpovedný riešiteľ:	Marianna Španková
Trvanie projektu:	1.1.2021 / 31.12.2022
Evidenčné číslo projektu:	SAV-CNR

Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 3000 €

Dosiahnuté výsledky:
Giannazzo, F., Panasci, S.E., Schiliró, E., Fiorenza, P., Greco, G., Roccaforte, F., Cannas, M., Agnello, S., Koos, A., Pécz, B., Španková, M., and Chromik, Š.: Highly homogeneous 2D/3D heterojunction diodes by pulsed laser deposition of MoS_2 on ion implantation doped 4H-SiC, Adv. Mater. Interfaces (2023) 2201502.

10.) Syntéza a charakterizácia funkčných heteroštruktúr 2D TMD-diamant pre senzorové prvky *(Synthesis and characterization of 2D TMD-diamond functional heterostructures for sensing elements)*

Zodpovedný riešiteľ:	Gabriel Vanko
Trvanie projektu:	1.1.2021 / 31.12.2022
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:
Vanko, G., Andok, R., Tomáška, M., Wu, S.-R., Vojs, M., Hudec, B., Marton, M., Řeháček, V., Kromka, A., Izsák, T., Chen, Y.-H., and Tsai, H.-Y.: Diamond-based RF MEMS microheaters for insects behavior monitoring. In Proc. 10th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. M. Feiler et al. Žilina: EDIS 2022. ISBN 978-80-554-1884-1. P. 145-148.

Programy: ERANET

11.) Epitaxné vrstvy tranzitných kovov dichalkogenidov pripravených na polovodičoch so širokým zakázaným pásmom pre modernú elektroniku *(Epitaxial transition metal dichalcogenides onto wide bandgap hexagonal superconductors for advanced electronics)*

Zodpovedný riešiteľ:	Štefan Chromik
Trvanie projektu:	1.4.2020 / 31.3.2023
Evidenčné číslo projektu:	FLAG-ERA III/2019/884/ETMOS
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Consiglio Nazionale delle Ricerche – Istituto per la Microelettronica e Microsistemi
Počet spoluriešiteľských inštitúcií:	4 - Francúzsko: 1, Maďarsko: 1, Taliansko: 2
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 25000 €

Dosiahnuté výsledky:
Giannazzo, F., Panasci, S.E., Schiliró, E., Fiorenza, P., Greco, G., Roccaforte, F., Cannas, M., Agnello, S., Koos, A., Pécz, B., Španková, M., and Chromik, Š.: Highly homogeneous 2D/3D heterojunction diodes by pulsed laser deposition of MoS_2 on ion implantation doped 4H-SiC, Adv. Mater. Interfaces (2023) 2201502.

Programy: Horizont 2020

12.) 3D ploter na báze nanášania po atómových vrstvách *(The atomic-layer 3D plotter)*

Zodpovedný riešiteľ:	Karol Fröhlich
Trvanie projektu:	1.5.2020 / 30.4.2022
Evidenčné číslo projektu:	ID: 950785
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Friedrich-Alexander-Universitaet Erlangen-Nuernberg
Počet spoluriešiteľských inštitúcií:	3 - Nemecko: 1, Dánsko: 1, Litva: 1
Čerpané financie:	-

Dosiahnuté výsledky:
Kundrata, I., Barr, M.K.S., Tymek, S., Döhler, D., Hudec, B., Brüner, P., Vanko, G., Precner, M., Yokosawa, T., Spiecker, E., Plakhotnyuk, M., Fröhlich, K., and Bachmann, J.: Additive manufacturing in atomic layer processing mode, Small Methods (2022) 2101546.

13.) 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 members of the EUROfusion consortium)*

Zodpovedný riešiteľ:	Fedor Gömöry
Trvanie projektu:	1.1.2014 / 31.12.2022
Evidenčné číslo projektu:	H2020-633053
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:	-

14.) 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 koordinátorom projektu:	nie

Koordinátor:	Centre National De La Recherche Scientifique CNRS
Počet spoluriešiteľských inštitúcií:	9 - Belgicko: 1, Nemecko: 3, Francúzsko: 1, Veľká Británia: 1, Švajčiarsko: 1, Holandsko: 2
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 3500 €

15.) 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 koordinátorom projektu:	nie
Koordinátor:	European Organization For Nuclear Research - CERN
Počet spoluriešiteľských inštitúcií:	20 - Rakúsko: 1, Nemecko: 2, Španielsko: 2, Estónsko: 1, Francúzsko: 4, Veľká Británia: 1, Maďarsko: 1, Švajčiarsko: 2, Taliansko: 1, Lotyšsko: 1, Holandsko: 1, Poľsko: 1, Slovensko: 1, Švédsko: 1
Čerpané financie:	EÚ: 13889 € Podpora medzinárodnej spolupráce z národných zdrojov: 3500 €

Dosiahnuté výsledky:
Ries, R., Seiler, E., Gömöry, F., Medvids, A., Onufrijevs, P., Pira, C., Chyhyrynets, E., Malyshev, O.B., and Valizadeh, R.: Surface quality characterization of thin Nb films for superconducting radiofrequency cavities, Supercond. Sci Technol. 35 (2022) 075010.

Programy: Horizont Európa

16.) 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:	H EU-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:	-

17.) 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:	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:	-

Programy: EDF

18.) 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:	-

Domáce projekty

Programy: VEGA

1.) Transport magnetických skyrmiónov v antidot mriežkach: Efekt teploty a kombinácie rôznych transportných mechanizmov *(Transport of magnetic skyrmions in antidot lattices: Effect of temperature and combination of transport mechanisms)*

Zodpovedný riešiteľ:	Juraj Feilhauer
Trvanie projektu:	1.1.2021 / 31.12.2023
Evidenčné číslo projektu:	2/0177/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 3391 €

2.) Tepelná stabilizácia vysokoteplotných supravodivých pások 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: 3801 €

Dosiahnuté výsledky:
Cuninková, E., Pekarčíková, M., Mošať, M., and Skarba, M.: Numerical simulation of thermal stabilization used in HTS tapes for SCFCL application, IEEE Trans. Applied Supercond. 32 (2022) 5600805.

Gömöry, F.: Probability of premature quenching of HTS coil due to local reduction of critical current, IEEE Trans. Applied Supercond. 32 (2022) 4604005.

Gömöry, F., Šouc, J., and Mošať, M.: Formation of hot spots in coated conductors during static and dynamic DC loading, IEEE Trans. Applied Supercond. 32 (2022) 5400207.

3.) 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: 10729 €

Dosiahnuté výsledky:
Pohorelec, O., Hasenöhrl, S., Blaho, M., Stoklas, R., Dobročka, E., Nádaždy, P., Vincze, A., Eliáš, P., Kučera, M., Gucmann, F., Gregušová, D., and Kuzmík, J.: Mg doping in In-rich InAlN layers. In: Inter. Workshop on Nitride Semicond. (IWN 2022) Berlin 2022. Výveska.

4.) 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: 9565 €

5.) Supravodivé spoje pre MgB_2 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	áno

koordinátorom projektu:	
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 14805 €

Dosiahnuté výsledky:
Búran, M., Kopera, L., and Kováč, P.: Transport measurement of MgB_2 wire under the sub-cooled water ice compared to other cooling conditions, Supercond. Sci Technol. 35 (2022) 105004.

6.) 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: 17409 €

Dosiahnuté výsledky:
Stoklas, R., Hasenőhrl, S., Dobročka, E., Gucmann, , and Kuzmík, J.: Electron transport properties in thin InN layers grown on InAlN, Mater. Sci Semicond. Process. 155 (2023) 107250.

Rosová, A., Dobročka, E., Eliáš, P., Hasenöhrl, S., Kučera, M., Gucmann, F., and Kuzmík, J.: In(Ga)N 3D growth on GaN-buffered on-axis and off-axis (0001) sapphire substrates by MOCVD, Nanomater. 12 (2022) 3496. IF 5.72, Q 1

Hasenöhrl, S., Blaho, M., Dobročka, E., Gucmann, F., Kučera, M.,Nádaždy, P., Stoklas, R., and Kuzmík, J.: Growth of N-polar In-rich InAlN by MOCVD. In: Inter. Workshop on Nitride Semicond. (IWN 2022) Berlin 2022. Výveska.

Šichman, P., Stoklas, R., Hasenöhrl, S., Gregušová, D., Ťapajna, M., Hudec, B., Haščík, Š., Hashizume, T., Chvála, A., Šatka, A., and Kuzmík, J.: Vertical GaN transistor with semi-insulating channel. In: Inter. Workshop on Nitride Semicond. (IWN 2022) Berlin 2022.

Hasenöhrl, S., Blaho, M., Dobročka, E., Gucmann, F., Kučera, M., Nádaždy, P., Stoklas, R., and Kuzmík, J.: Growth of N-polar In-rich InAlN by MOCVD. In 14th Topical Workshop on Heterostruct. Microel. Hiroshima 2022.

7.) Nízkostratový supravodivý kábel typu CORC z REBCO vodičov *(Low-loss superconducting CORC-like cable from REBCO conductors)*

Zodpovedný riešiteľ:	Eugen Seiler
Trvanie projektu:	1.1.2021 / 31.12.2023
Evidenčné číslo projektu:	2/0036/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.

Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 19463 €

Dosiahnuté výsledky:

Dadhich, A., Li, S., Solovyov, M., Šouc, J., Mošať, M., and Pardo, E.: Reducing cross-field demagnetization of superconducting stacks by soldering in pairs, Supercond. Sci Technol. 35 (2022) 115001.

Kováč, J., Kopera, L., Pardo, E., Melišek, T., Ries, R., Berberich, E., Wolfstädler S., and Reis, T.: Measurement of AC loss down to 25 K in a REBCO racetrack coil for electrical aircraft motor, Sci Reports 12 (2022) 16454.

Ries, R., Seiler, E., Gömöry, F., Medvids, A., Onufrijevs, P., Pira, C., Chyhyrynets, E., Malyshev, O.B., and Valizadeh, R.: Surface quality characterization of thin Nb films for superconducting radiofrequency cavities, Supercond. Sci Technol. 35 (2022) 075010.

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: 15892 €

Dosiahnuté výsledky:

Shaji, A., Vegso, K., Sojková, M., Hulman, M., Nádaždy, P., Halahovets, Y., Pribusová Slušná, L., Vojteková, T., Hrdá, J., Jergel, M., Majková, E., Wiesmann, J., and Šiffalovič, P.: Stepwise sulfurization of MoO_3 to MoS_2 thin films studied by real-time X-ray scattering, Applied Surface Sci 606 (2022) 154772.

Kozak, A., Sojková, M., Gucmann, F., Bodík, M., Vegso, K., Dobročka, E., Píš, I., Bondino, F., Hulman, M., Šiffalovič, P., and Ťapajna, M.: Effect of the crystallographic c-axis orientation on the tribological properties of the few-layer $PtSe_2$, Applied Surface Sci 605 (2022) 154883.

Dvurečenskij, A., Cigáň, A., Lobotka, P., Radnóczi, G., Škrátek, M., Benyó, J., Kováčová, E., Majerová, M., , and Maňka, J.: Colloids of HEA nanoparticles in an imidazolium-based ionic liquid prepared by magnetron sputtering: Structural and magnetic properties, Alloys Compounds 896 (2022) 163089.

Hrdá, J., Vojteková, T., Pribusová-Slušná, L., Dobročka, E., Hulman, M., Píš, I., and Sojková, M.: Influence of Li-doping on the structural properties of thin-layer MOS_2 films. In Proc. 10^{th} Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. M. Feiler et al. Žilina: EDIS 2022. ISBN 978-80-554-1884-1. P. 85-88.

9.) Vývoj UV senzora na báze GaN pre vesmírne aplikácie *(GaN-based heterostructure as a promising UV sensor for space application)*

Zodpovedný riešiteľ:	Roman Stoklas
Trvanie projektu:	1.1.2019 / 31.12.2022
Evidenčné číslo projektu:	2/0114/19
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 4989 €

Dosiahnuté výsledky:
Stoklas, R., Šichman, P., Hasenöhrl, S., Gregušová, D., Ťapajna, M., Hudec, B., Haščík, Š., and Kuzmík, J.: Interface states analysis of Al_2O_3/GaN MOS capacitors with semi-insulating C-doped GaN. In: ASDAM 2022. Eds. J. Marek et al. IEEE 2022. ISBN 978-1-6654-6977-7. P. 15-16.

10.) 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: 20296 €

Dosiahnuté výsledky:
Krylov, S., Vetrova, I., Feilhauer, J., Fedor, J., Dérer, J., Šoltýs, J., and Cambel, V.: Improved durable vortex core MFM tip, J. Magnet. Magn. Mater. 555 (2022) 169357.

11.) 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: 3951 €

12.) Elektronické a optoelektronické súčiastky na báze ultra-širokopásmového Ga_2O_3 polovodiča *(Electronic and optoelectronic devices based on ultra-wide bandgap Ga_2O_3 semiconductor)*

Zodpovedný riešiteľ:	Milan Ťapajna
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0100/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 11643 €

Dosiahnuté výsledky:

Egyenes, F., Gucmann, F., Rosová, A., Dobročka, E., Hušeková, K., Hrubišák, F., Keshtkar, J., and Ťapajna, M.: Conductance anisotropy of MOCVD-grown α-Ga_2O_3 films caused by (010) β-Ga_2O_3 filament-shaped inclusions, J. Phys. D: Appl. Phys. 56 (2023) 045102.

Hrubišák, F., Egyenes, F., Dobročka, E., Gucmann, F., Hušeková, K., Keshtkar, J., and Ťapajna, M.: Growth and properties of Ga_2O_3 on 4H-SiC using liquid-injection MOCVD. In Proc. 10th Inter. Conf. on Advances in Electron. Photon. Technol. - ADEPT. Eds. M. Feiler et al. Žilina: EDIS 2022. ISBN 978-80-554-1884-1. P. 47-50.

Keshtkar, J., Hotovy, I., Gucmann, F., Hušeková, K., Dobročka, E., Nádaždy, P., Egyenes, F., Mikolášek, M., and Ťapajna, M.: NiO thin films for solar-blind photodetectors: structure and electrical properties. In Proc. 10th Inter. Conf. on Advances in Electron. Photon. Technol. - ADEPT. Eds. M. Feiler et al. Žilina: EDIS 2022. ISBN 978-80-554-1884-1. P. 113-116.

Hrubišák, F., Hušeková, K., Egyenes, F., Gucmann, F., Dobročka, E., Keshtkar, J., and Ťapajna, M.: Effects of repeated annealing in different atmospheres on surface morphology of ε-/κ-Ga2O3 grown on c-plane sapphire using LI-MOCVD method. In: ELITECH´22: 24th Conf. Doctoral Students Ed. A. Kozáková. Bratislava: Spektrum STU, 2022. ISBN 978-80-227-5192-6.

Keshtkar, J., Gucmann, F., Hotový, I., Dobročka, E., Egyenes, F., and Ťapajna, M.: NiO thin films for solar-blind photodetectors:structure and electrical properties. In: ELITECH´22: 24th Conf. Doctoral Students Ed. A. Kozáková. Bratislava: Spektrum STU, 2022. ISBN 978-80-227-5192-6.

Hrubišák, F., Hušeková, K., Egyenes, F., Rosová, A., Kubranská, A., Dobročka, E., Nádaždy, P., Keshtar, J., Gucmann, F., and Ťapajna, M.: Structural and electrical properties of Ga_2O_3 transistors grown on 4H-SiC substrates. In: ASDAM 2022. Eds. J. Marek et al. IEEE 2022. ISBN 978-1-6654-6977-7. P. 115-118.

Egyenes, F., Gucmann, F., Dobročka, E., Mikolášek, M., Hušeková, K., and Ťapajna, M.: Transport properties of Si-doped ß-Ga_2O_3 grown by liquid-injection MOCVD. In: ASDAM 2022. Eds. J. Marek et al. IEEE 2022. ISBN 978-1-6654-6977-7. P. 119-122.

Dobročka, E., Rosová, A., Hušeková, K., Kubranská, A., Egyenes, F., Gucmann, F., and Ťapajna, M.: Crystal structure of ε/κ-Ga_2O_3 epitaxial films grown by liquidinjection MOCVD on sapphire substrates. In E-MRS 2022 - Fall Meeting. Warsaw 2022. Vývеska.

Gucmann, F., Hušeková, K., Dobročka, E., Nádaždy, P., Keshtar, J., Egyenes, F., Mikolášek, M., Fröhlich, K., and Ťapajna, M.: Growth of gallium oxide on 4H-SiC using liquid-injection MOCVD. In WOCSDICW 2022. Ponta Delgada 2022.

Gucmann, F., Hušeková, K., Dobročka, E., and Nádaždy, P.: Ga_2O_3 vs heat: anisotropy, thermal stability, and heat removal. In E-MRS 2022 - Fall Meeting. Warsaw 2022. Vyžiadaná prednáška.

13.) Vysokovýkonná zakrivená röntgenová optika pripravená pokročilou technológiou nanoobrábania *(High-performance curved X-ray optics prepared by advanced nanomachining technology)*

Zodpovedný riešiteľ:	Zdenko Zápražný
Trvanie projektu:	1.1.2021 / 31.12.2023
Evidenčné číslo projektu:	2/0041/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 3631 €

Dosiahnuté výsledky:
Vegso, K., Shaji, A., Sojková, M., Pribusová Slušná, L., Vojteková, T., Hrdá, J., Halahovets, Y., Hulman, M., Jergel, M., Majková, E., Wiesmann, J., and Šiffalovič, P.: A wide-angle X-ray scattering laboratory setup for tracking phase changes of thin films in a chemical vapor deposition chamber, Rev. Sci Instrum. 93 (2022) 113909.

Shaji, A., Vegso, K., Sojková, M., Hulman, M., Nádaždy, P., Halahovets, Y., Pribusová Slušná, L., Vojteková, T., Hrdá, J., Jergel, M., Majková, E., Wiesmann, J., and Šiffalovič, P.: Stepwise sulfurization of MoO3 to MoS2 thin films studied by real-time X-ray scattering, Applied Surface Sci 606 (2022) 154772.

14.) Vysokoodolné polovodičové senzory ionizujúceho žiarenia pre využitie v radiačnom prostredí *(Radiation resistant semiconductor sensors for utilization in harsh environment)*

Zodpovedný riešiteľ:	Bohumír Zaťko
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	2/0084/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	VEGA: 8734 €

Dosiahnuté výsledky:
Sedláčková, K., Zaťko, B., Šagátová, A., and Nečas, V.: Polarization effect of Schottky-barrier CdTe semiconductor detectors after electron irradiation, Nuclear Instr. Methods Phys. Res. A 1027 (2022) 166282.

Osvald, J., Hrubčín, L., and Zaťko, B.: Temperature dependence of electrical behaviour of inhomogeneous Ni/Au/4H–SiC Schottky diodes, Mater. Sci Semicond. Process. 140 (2022) 106413.

Osvald, J. and Zaťko, B.: Anomalous intersection point of Schottky diodes I-V curves measured at different temperatures. In Proc. 10th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. M. Feiler et al. Žilina: EDIS 2022. ISBN 978-80-554-1884-1. P. 133-136.

Huran, J., Boháček, P., Sasinková, V., Kleinová, A., Mikolášek, M., and Kobzev, A.P.: Amorphous silicon carbide thin films doped with P or B for the photoelectrochemical water splitting devices, Current Applied Phys. 34 (2022) 101-106.

Huran, J., Sasinková, V., Nozdrin, M.A., Kováčová, E., Kobzev, A.P., and Kleinová, A.: Photo-induced electron emission of nanostructured carbon thin film based transmission photocathodes at different electric field, Adv. Electr. Electron. Engn. 20 (2022) 108-114.

Huran, J., Skrypnik, A.P., Sasinková, V., Doroshkevich, A.S., Nozdrin, M.A., Kováčová, E., and Shirkov, G.D.: Effect of electric field on the photoelectron emission properties of very thin carbon films prepared by electron beam-plasma vacuum deposition. In Proc. 10th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. M. Feiler et al. Žilina: EDIS 2022. ISBN 978-80-554-1884-1. P. 129-132.

Programy: APVV

15.) Optimalizácia okrúhleho kábla z vysokoteplotného supravodiča pre pulzné magnetické polia *(Optimization of round high-temperature supercnoducting 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: 24604 €

Dosiahnuté výsledky:
Gömöry, F., Šouc, J., and Mošať, M.: Formation of hot spots in coated conductors during static and dynamic DC loading, IEEE Trans. Applied Supercond. 32 (2022) 5400207.

16.) 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: 16043 €

17.) 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: 11935 €

18.) Moderné elektronické súčiastky na báze ultraširokopásmového polovodiča Ga_2O_3 pre budúce vysokonapäťové aplikácie *(Modern electronic devices based on ultrawide bandgap semiconducting Ga_2O_3 for future high-voltage applications)*

Zodpovedný riešiteľ:	Filip Gucmann
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: 29900 €

Dosiahnuté výsledky:

Egyenes, F., Gucmann, F., Rosová, A., Dobročka, E., Hušeková, K., Hrubišák, F., Keshtkar, J., and Ťapajna, M.: Conductance anisotropy of MOCVD-grown α-Ga_2O_3 films caused by (010) β-Ga_2O_3 filament-shaped inclusions, J. Phys. D: Appl. Phys. 56 (2023) 045102.

Hrubišák, F., Egyenes, F., Dobročka, E., Gucmann, F., Hušeková, K., Keshtkar, J., and Ťapajna, M.: Growth and properties of Ga_2O_3 on 4H-SiC using liquid-injection MOCVD. In Proc. 10th Inter. Conf. on Advances in Electron. Photon. Technol. - ADEPT. Eds. M. Feiler et al. Žilina: EDIS 2022. ISBN 978-80-554-1884-1. P. 47-50.

Keshtkar, J., Hotovy, I., Gucmann, F., Hušeková, K., Dobročka, E., Nádaždy, P., Egyenes, F., Mikolášek, M., and Ťapajna, M.: NiO thin films for solar-blind photodetectors: structure and electrical properties. In Proc. 10th Inter. Conf. on Advances in Electron. Photon. Technol. - ADEPT. Eds. M. Feiler et al. Žilina: EDIS 2022. ISBN 978-80-554-1884-1. P. 113-116.

Hrubišák, F., Hušeková, K., Egyenes, F., Gucmann, F., Dobročka, E., Keshtkar, J., and Ťapajna, M.: Effects of repeated annealing in different atmospheres on surface morphology of ε-/κ-Ga_2O_3 grown on c-plane sapphire using LI-MOCVD method. In: ELITECH´22: 24th Conf. Doctoral Students Ed. A. Kozáková. Bratislava: Spektrum STU, 2022. ISBN 978-80-227-5192-6.

Keshtkar, J., Gucmann, F., Hotový, I., Dobročka, E., Egyenes, F., and Ťapajna, M.: NiO thin films for solar-blind photodetectors:structure and electrical properties. In: ELITECH´22: 24th Conf. Doctoral Students Ed. A. Kozáková. Bratislava: Spektrum STU, 2022. ISBN 978-80-227-5192-6.

Hrubišák, F., Hušeková, K., Egyenes, F., Rosová, A., Kubranská, A., Dobročka, E., Nádaždy, P., Keshtar, J., Gucmann, F., and Ťapajna, M.: Structural and electrical properties of Ga_2O_3 transistors grown on 4H-SiC substrates. In: ASDAM 2022. Eds. J. Marek et al. IEEE 2022. ISBN 978-1-6654-6977-7. P. 115-118.

Egyenes, F., Gucmann, F., Dobročka, E., Mikolášek, M., Hušeková, K., and Ťapajna, M.: Transport properties of Si-doped ß-Ga_2O_3 grown by liquid-injection MOCVD. In: ASDAM 2022. Eds. J. Marek et al. IEEE 2022. ISBN 978-1-6654-6977-7. P. 119-122.

Gucmann, F., Hušeková, K., Dobročka, E., and Nádaždy, P.: Ga_2O_3 vs heat: anisotropy, thermal stability, and heat removal. In E-MRS 2022 - Fall Meeting. Warsaw 2022. Vyžiadaná prednáška.

Gucmann, F., Hušeková, K., Dobročka, E., Nádaždy, P., Keshtar, J., Egyenes, F., Mikolášek, M., Fröhlich, K., and Ťapajna, M.: Growth of gallium oxide on 4H-SiC using liquid-injection MOCVD. In WOCSDICW 2022. Ponta Delgada 2022.

Dobročka, E., Rosová, A., Hušeková, K., Kubranská, A., Egyenes, F., Gucmann, F., and Ťapajna, M.: Crystal structure of ε/κ-Ga_2O_3 epitaxial films grown by liquidinjection MOCVD on sapphire substrates. In E-MRS 2022 - Fall Meeting. Warsaw 2022. Výveska.

19.) Vlastnosti tepelného transportu v budúcich perspektívnych polovodičových materiáloch a rozhraniach *(Thermal transport properties of perspective future semiconductor materials and interfaces)*

Zodpovedný riešiteľ:	Filip Gucmann
Trvanie projektu:	1.1.2022 / 31.12.2023
Evidenčné číslo projektu:	SK-CN-21-0013
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 6000 €

20.) Metalické 2D dichalkogenidy prechodných kovov: príprava, štúdium vlastností a korelované stavy *(Fabrication, physics and correlated states in metallic 2D transition metal dichalcogenides)*

Zodpovedný riešiteľ:	Martin Hulman
Trvanie projektu:	1.7.2020 / 30.6.2023
Evidenčné číslo projektu:	19-0365
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 42710 €

Dosiahnuté výsledky:
Gabinet, U., Lee, C., Kim, N.K., Hulman, M., Thompson, S.M., Kagan, C.R., and Osuji, C.O.: Magnetic field alignment and optical anisotropy of MoS_2 nanosheets dispersed in a liquid crystal polymer, J. Phys. Chem. Lett. 13 (2022) 7994–8001.

Vegso, K., Shaji, A., Sojková, M., Pribusová Slušná, L., Vojteková, T., Hrdá, J., Halahovets, Y., Hulman, M., Jergel, M., Majková, E., Wiesmann, J., and Šiffalovič, P.: A wide-angle X-ray scattering laboratory setup for tracking phase changes of thin films in a chemical vapor deposition chamber, Rev. Sci Instrum. 93 (2022) 113909.

Shaji, A., Vegso, K., Sojková, M., Hulman, M., Nádaždy, P., Halahovets, Y., Pribusová Slušná, L., Vojteková, T., Hrdá, J., Jergel, M., Majková, E., Wiesmann, J., and Šiffalovič, P.: Stepwise sulfurization of MoO_3 to MoS_2 thin films studied by real-time X-ray scattering, Applied Surface Sci 606 (2022) 154772.

Kozak, A., Sojková, M., Gucmann, F., Bodík, M., Vegso, K., Dobročka, E., Píš, I., Bondino, F., Hulman, M., Šiffalovič, P., and Ťapajna, M.: Effect of the crystallographic c-axis orientation on the tribological properties of the few-layer $PtSe_2$, Applied Surface Sci 605 (2022) 154883.

21.) Dlhodosahový jav blízkosti v supravodič/feromagnet heteroštruktúrach *(Long-range proximity effect in superconductor / ferromagnet heterostructures)*

Zodpovedný riešiteľ:	Štefan Chromik
Trvanie projektu:	1.7.2020 / 31.12.2023
Evidenčné číslo projektu:	19-0303
Organizácia je koordinátorom projektu:	nie
Koordinátor:	FMFI UK
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 24000 €

22.) Supravodivé vinutia z homogénnych MgB_2 drôtov s trubičkovými vláknami *(Superconducting coils made of uniform MgB2 wires with tubular filaments)*

Zodpovedný riešiteľ:	Pavol Kováč
Trvanie projektu:	1.7.2019 / 30.11.2022
Evidenčné číslo projektu:	18-0271
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 53511 €

Dosiahnuté výsledky:
Búran, M., Kopera, L., and Kováč, P.: Transport measurement of MgB_2 wire under the sub-cooled water ice compared to other cooling conditions, Supercond. Sci Technol. 35 (2022) 105004.

Kováč, P., Kopera, L., Berek, D., Hain, M., Melišek, T., Hušek, I., Kováč, J., and Búran, M.: High-current-density Rutherford MgB_2 cable sheathed by $CuNi_30$ alloy, Supercond. Sci Technol. 35 (2022) 115003.

23.) 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: 33500 €

24.) Vertikálny GaN MOSFET pre výkonové spínacie aplikácie *(Vertical GaN MOSFET for power switching applications)*

Zodpovedný riešiteľ:	Ján Kuzmík
Trvanie projektu:	1.7.2019 / 30.6.2022
Evidenčné číslo projektu:	18-0054
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 29340 €

Dosiahnuté výsledky:

Kuzmík, J.: Vertikálny GaN tranzistor s izolačným kanálom a spôsob jeho prípravy. SK patent č. 289027.

Šichman, P., Stoklas, R., Hasenöhrl, S., Gregušová, D., Ťapajna, M., Hudec, B., Haščík, Š., Hashizume, T., Chvála, A., Šatka, A., and Kuzmík, J.: Vertical GaN transistor with semi-insulating channel. In: Inter. Workshop on Nitride Semicond. (IWN 2022) Berlin 2022.

Priesol, J., Šatka, A., Chvála, A., Šichman, P., Hasenöhrl, S., Kuzmík, J., and Uherek, F.: EBIC analysis of semi-insulating GaN/Si-doped GaN-on-GaN test structures for vertical GaN transistors. In WOCSDICW 2022. Ponta Delgada 2022. Výveska.

25.) Časovo-rozlíšené štúdium rastu hybridných van der Waalsových heteroštruktúr *(Real-time grow studies of hybrid van der Waals heterostructures)*

Zodpovedný riešiteľ:	Naďa Mrkývková
Zodpovedný riešiteľ v organizácii SAV:	Martin Hulman
Trvanie projektu:	1.8.2018 / 30.6.2022
Evidenčné číslo projektu:	17-0352
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum pre využitie pokročilých materiálov SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 6686 €

Dosiahnuté výsledky:
Shaji, A., Vegso, K., Sojková, M., Hulman, M., Nádaždy, P., Halahovets, Y., Pribusová Slušná, L., Vojteková, T., Hrdá, J., Jergel, M., Majková, E., Wiesmann, J., and Šiffalovič, P.: Stepwise sulfurization of MoO_3 to MoS_2 thin films studied by real-time X-ray scattering, Applied Surface Sci 606 (2022) 154772.

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

Zodpovedný riešiteľ:	Michal Mruczkiewicz
Trvanie projektu:	1.7.2020 / 30.6.2023
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: 35562 €

Dosiahnuté výsledky:
Krylov, S., Vetrova, I., Feilhauer, J., Fedor, J., Dérer, J., Šoltýs, J., and Cambel, V.: Improved durable vortex core MFM tip, J. Magnet. Magn. Mater. 555 (2022) 169357.

27.) Fotonické labortórium 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: 27330 €

Dosiahnuté výsledky:
Novák, J., Laurenčíková, A., Eliáš, P., Hasenöhrl, S., Sojková, M., Kováč, J.jr., and Kováč, J.: Investigation of a nanostructured GaP/MoS_2 p-n heterojunction photodiode, AIP Adv. 12 (2022) 065004.

Novák, J., Laurenčíková, A., Eliáš, P., Hasenöhrl, S., Sojková, M., Kováč, J.jr., and Kováč, J.: MOVPE growth of edge rich GaP surfaces for preparation of molybdenum disulphide. In Proc. 10th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. M. Feiler et al. Žilina: EDIS 2022. ISBN 978-80-554-1884-1. P. 21-24.

28.) 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: 26830 €

Dosiahnuté výsledky:
Novák, J., Laurenčíková, A., Eliáš, P., Hasenöhrl, S., Sojková, M., Kováč, J.jr., and Kováč, J.: Investigation of a nanostructured GaP/MoS_2 p-n heterojunction photodiode, AIP Adv. 12 (2022) 065004.

Novák, J., Laurenčíková, A., Eliáš, P., Hasenöhrl, S., Sojková, M., Kováč, J.jr., and Kováč, J.: MOVPE growth of edge rich GaP surfaces for preparation of molybdenum disulphide. In Proc. 10th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. M. Feiler et al. Žilina: EDIS 2022. ISBN 978-80-554-1884-1. P. 21-24.

29.) Vysokoteplotná supravodivá cievka pre motory elektrických a hybridných lietadiel *(High temperature superconducting coils in motors for electric and hybrid aircrafts)*

Zodpovedný riešiteľ:	Enric Pardo
Trvanie projektu:	1.7.2020 / 30.6.2023
Evidenčné číslo projektu:	19-0536
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 84896 €

Dosiahnuté výsledky:
Kováč, J., Kopera, L., Pardo, E., Melišek, T., Ries, R., Berberich, E., Wolfstädler S., and Reis, T.: Measurement of AC loss down to 25 K in a REBCO racetrack coil for electrical aircraft motor, Sci Reports 12 (2022) 16454.

Dadhich, A., Li, S., Solovyov, M., Šouc, J., Mošať, M., and Pardo, E.: Reducing cross-field demagnetization of superconducting stacks by soldering in pairs, Supercond. Sci Technol. 35 (2022) 115001.

30.) Formovanie farebných centier v diamante a ich vlastností smerom ku kvantovej detekcii *(Evolution of colour centres in diamond and their properties towards quantum detection)*

Zodpovedný riešiteľ:	Viera Skákalová
Zodpovedný riešiteľ v organizácii SAV:	Marian Varga
Trvanie projektu:	1.7.2021 / 31.12.2024
Evidenčné číslo projektu:	20-0398
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum pre využitie pokročilých materiálov SAV, v. v. i.

Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

31.) 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: 15040 €

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

Zodpovedný riešiteľ:	Milan Ťapajna
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: 18612 €

33.) Tribologické vlastnosti 2D materiálov a príbuzných nanokompozitov *(Tribological properties of 2D materials and related nanocomposites)*

Zodpovedný riešiteľ:	Milan Ťapajna
Zodpovedný riešiteľ v organizácii SAV:	Martin Hulman
Trvanie projektu:	1.8.2018 / 30.6.2022
Evidenčné číslo projektu:	17-0560
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum pre využitie pokročilých materiálov SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 6686 €

Dosiahnuté výsledky:

Shaji, A., Vegso, K., Sojková, M., Hulman, M., Nádaždy, P., Halahovets, Y., Pribusová Slušná, L., Vojteková, T., Hrdá, J., Jergel, M., Majková, E., Wiesmann, J., and Šiffalovič, P.: Stepwise sulfurization of MoO_3 to MoS_2 thin films studied by real-time X-ray scattering, Applied Surface Sci 606 (2022) 154772.

Kozak, A., Sojková, M., Gucmann, F., Bodík, M., Vegso, K., Dobročka, E., Píš, I., Bondino, F., Hulman, M., Šiffalovič, P., and Ťapajna, M.: Effect of the crystallographic c-axis orientation on the tribological properties of the few-layer $PtSe_2$, Applied Surface Sci 605 (2022) 154883.

34.) Pokročilé mikromechanické nosníky zo širokopásmových polovodičových materiálov *(Advanced Microcantilevers from Wide Bandgap Materials)*

Zodpovedný riešiteľ:	Gabriel Vanko
Trvanie projektu:	1.3.2020 / 31.12.2022
Evidenčné číslo projektu:	DS-FR-19-0051
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Rakúsko: 1, Česko: 1, Francúzsko: 0
Čerpané financie:	APVV: 5000 €

Dosiahnuté výsledky:
Vanko, G., Andok, R., Tomáška, M., Wu, S.-R., Vojs, M., Hudec, B., Marton, M., Řeháček, V., Kromka, A., Izsák, T., Chen, Y.-H., and Tsai, H.-Y.: Diamond-based RF MEMS microheaters for insects behavior monitoring. In Proc. 10th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. M. Feiler et al. Žilina: EDIS 2022. ISBN 978-80-554-1884-1. P. 145-148.

35.) Zberač energie na báze mikrostĺpikovitých štruktúr *(Energy Harvesting Device Based on Micropillar Structures)*

Zodpovedný riešiteľ:	Gabriel Vanko
Trvanie projektu:	1.1.2022 / 31.12.2023
Evidenčné číslo projektu:	SK-TW-21-0006
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Taiwan: 1
Čerpané financie:	APVV: 5000 €

36.) Modifikácia vlastností supravodivých, feromagnetických oxidových vrstiev a štruktúr pre modernú elektroniku *(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:	-

37.) Perspektívne polovodičové detektory pre využitie v jadrovej fyzike *(Perspective semiconductor detector for nuclear physics)*

Zodpovedný riešiteľ:	Bohumír Zaťko
Trvanie projektu:	1.3.2022 / 31.12.2024
Evidenčné číslo projektu:	SK-RU-21-0002
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	-

38.) Radiačne odolnejší senzor pre RTG zobrazovanie vyššej kvality *(Radiation harder sensor for X-ray imaging of higher quality)*

Zodpovedný riešiteľ:	Bohumír Zaťko
Trvanie projektu:	1.7.2019 / 30.6.2023
Evidenčné číslo projektu:	18-0273
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav jadrového a fyzikálneho inžinierstva FEI STU
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 25932 €

Dosiahnuté výsledky:

Sedláčková, K., Zaťko, B., Šagátová, A., and Nečas, V.: Polarization effect of Schottky-barrier CdTe semiconductor detectors after electron irradiation, Nuclear Instr. Methods Phys. Res. A 1027 (2022) 166282.

Huran, J., Sasinková, V., Nozdrin, M.A., Kováčová, E., Kobzev, A.P., and Kleinová, A.: Photo-induced electron emission of nanostructured carbon thin film based transmission photocathodes at different electric field, Adv. Electr. Electron. Engn. 20 (2022) 108-114.

Huran, J., Skrypnik, A.P., Sasinková, V., Doroshkevich, A.S., Nozdrin, M.A., Kováčová, E., and Shirkov, G.D.: Effect of electric field on the photoelectron emission properties of very thin carbon films prepared by electron beam-plasma vacuum deposition. In Proc. 10th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. M. Feiler et al. Žilina: EDIS 2022. ISBN 978-80-554-1884-1. P. 129-132.

Osvald, J. and Zaťko, B.: Anomalous intersection point of Schottky diodes I-V curves measured at different temperatures. In Proc. 10th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. M. Feiler et al. Žilina: EDIS 2022. ISBN 978-80-554-1884-1. P. 133-136.

39.) Výskum radiačne odolných polovodičových detektorov pre jadrovú energetiku *(Research of radiation resistant semiconductor detector for nuclear energies)*

Zodpovedný riešiteľ:	Bohumír Zaťko
Trvanie projektu:	1.7.2019 / 31.12.2022
Evidenčné číslo projektu:	18-0243
Organizácia je	áno

koordinátorom projektu:	
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 36680 €

Dosiahnuté výsledky:
Osvald, J., Hrubčín, L., and Zaťko, B.: Temperature dependence of electrical behaviour of inhomogeneous Ni/Au/4H–SiC Schottky diodes, Mater. Sci Semicond. Process. 140 (2022) 106413.

Osvald, J. and Zaťko, B.: Anomalous intersection point of Schottky diodes I-V curves measured at different temperatures. In Proc. 10th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. M. Feiler et al. Žilina: EDIS 2022. ISBN 978-80-554-1884-1. P. 133-136.

Sedláčková, K., Zaťko, B., Šagátová, A., and Nečas, V.: Polarization effect of Schottky-barrier CdTe semiconductor detectors after electron irradiation, Nuclear Instr. Methods Phys. Res. A 1027 (2022) 166282.

Huran, J., Boháček, P., Sasinková, V., Kleinová, A., Mikolášek, M., and Kobzev, A.P.: Amorphous silicon carbide thin films doped with P or B for the photoelectrochemical water splitting devices, Current Applied Phys. 34 (2022) 101-106.

Huran, J., Sasinková, V., Nozdrin, M.A., Kováčová, E., Kobzev, A.P., and Kleinová, A.: Photo-induced electron emission of nanostructured carbon thin film based transmission photocathodes at different electric field, Adv. Electr. Electron. Engn. 20 (2022) 108-114.

Huran, J., Skrypnik, A.P., Sasinková, V., Doroshkevich, A.S., Nozdrin, M.A., Kováčová, E., and Shirkov, G.D.: Effect of electric field on the photoelectron emission properties of very thin carbon films prepared by electron beam-plasma vacuum deposition. In Proc. 10th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. M. Feiler et al. Žilina: EDIS 2022. ISBN 978-80-554-1884-1. P. 129-132.

Programy: Iné projekty

40.) 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:	-

Programy: Štrukturálne fondy EÚ Výskum a inovácie

41.) CEMEA - Vybudovanie centra pre využitie pokročilých materiálov SAV *(Building a centre for advanced material application SAS)*

Zodpovedný riešiteľ:	Eva Majková
Zodpovedný riešiteľ v organizácii SAV:	Milan Ťapajna
Trvanie projektu:	1.7.2019 / 30.6.2023
Evidenčné číslo projektu:	313021T081
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum pre využitie pokročilých materiálov SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	6 - Slovensko: 6
Čerpané financie:	SAV: 47612 €

Dosiahnuté výsledky:
Vegso, K., Shaji, A., Sojková, M., Pribusová Slušná, L., Vojteková, T., Hrdá, J., Halahovets, Y., Hulman, M., Jergel, M., Majková, E., Wiesmann, J., and Šiffalovič, P.: A wide-angle X-ray scattering laboratory setup for tracking phase changes of thin films in a chemical vapor deposition chamber, Rev. Sci Instrum. 93 (2022) 113909.

Mustonen, K., Hofer, Ch., Kotrusz, P., , Markevich, A., Hulman, M., Mangler, C., Susi, T., Pennycook, T.J., Hricovini, K., Richter, Ch. M., Meyer, J.C., Kotakoski, J., and Skákalová, V.: Towards exotic layered materials: 2D cuprous iodide, Adv. Mater. 34 (2022) 2106922.

Programy: DoktoGranty

42.) Optimalizácia rastu parametrov pre tenké vrstvy $MoTe_2$ *(Oprimisation of growth parameters for MoTe2)*

Zodpovedný riešiteľ:	Tatiana Vojteková
Trvanie projektu:	1.1.2022 / 31.12.2022
Evidenčné číslo projektu:	APP0282
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 2000 €

Dosiahnuté výsledky:
Vojteková, T., Pribusová-Slušná, L., and Hulman, M.: Optical characterisation of $MOTe_2$ thin films. In Proc. 10th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. M. Feiler et al. Žilina: EDIS 2022. ISBN 978-80-554-1884-1. P. 59-62.

Programy: MoRePro

43.) 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: 44448 €

Dosiahnuté výsledky:
Kromka, A., Babčenko, O., Izsák, T., Varga, M., Vanko, G., Zehetner, J., and Potocký, Š.: Growth of carbon allotropes in plasma CVD system. In Proc. 10th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. M. Feiler et al. Žilina: EDIS 2022. ISBN 978-80-554-1884-1. P. 17-20.

Cajzl, J., Nekvindová, P., Macková, A., Varga, M., and Kromka, A.: Erbium ion implantation into $LiNbO_3$, Al_2O_3, ZnO and diamond – measurement and modelling – an overview, Phys. Chem. Chem. Phys. 24 (2022) 19052-19072.

Programy: Európsky fond regionálneho rozvoja (EFRR)

44.) Nová technológia prípravy senzorov, detektorov a memristorov pre inteligentnú mikroelektroniku v 21. storočí *(New technology for the preparation of sensors, detectors and memristors for intelligent microelectronics in the 21st century)*

Zodpovedný riešiteľ:	Vladimír Cambel
Trvanie projektu:	1.3.2022 / 30.9.2023
Evidenčné číslo projektu:	ITMS2014+ 313011BVN5
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	EFRR: 35645 €

Príloha C
Publikačná činnosť organizácie (*generovaná z ARL*)

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

ADCA01 BUDIL, J.** - SZABÓ, O. - LISKOVA, P. - STENCLOVA, P. - IZSÁK, Tibor - POTOCKÝ, Štěpán - KROMKA, A. Impact of electrolyte solution on electrochemical oxidation treatment of Escherichia coli K-12 by boron-doped diamond electrodes. In Letters in Applied Microbiology, 2022, vol. 74, p. 924-931. (2021: 2.813 - IF, Q3 - JCR, 0.593 - SJR, Q2 - SJR). ISSN 0266-8254. Dostupné na: https://doi.org/10.1111/lam.13687

ADCA02 BÚRAN, Marek** - KOPERA, Ľubomír - KOVÁČ, Pavol. Transport measurement of MgB2 wire under the sub-cooled water ice compared to other cooling conditions. In Superconductor Science and Technology, 2022, vol. 35, no. 105004. (2021: 3.482 - IF, Q2 - JCR, 0.826 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: https://doi.org/10.1088/1361-6668/ac8455 (APVV 18-0271)

ADCA03 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). ISSN 0020-1669. Dostupné na: https://doi.org/10.1021/acs.inorgchem.2c03200

ADCA04 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). ISSN 1463-9076. Dostupné na: https://doi.org/10.1039/d2cp01803a (MoRePro 19MRP0010)

ADCA05 CUNINKOVÁ, E.** - PEKARČÍKOVÁ, M. - MOŠAŤ, Marek - SKARBA, M. Numerical simulation of thermal stabilization used in HTS tapes for SCFCL application. In IEEE Transactions on Applied Superconductivity, 2022, vol. 32, no. 5600805. (2021: 1.949 - IF, Q3 - JCR, 0.443 - SJR, Q2 - SJR). ISSN 1051-8223. Dostupné na: https://doi.org/10.1109/TASC.2022.3148694 (VEGA 1/0205/21)

ADCA06 DADHICH, Anang - LI, S. - SOLOVYOV, Mykola - ŠOUC, Ján - MOŠAŤ, Marek - PARDO, Enric**. Reducing cross-field demagnetization of superconducting stacks by soldering in pairs. In Superconductor Science and Technology, 2022, vol. 35, no. 115001. (2021: 3.482 - IF, Q2 - JCR, 0.826 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: https://doi.org/10.1088/1361-6668/ac908f (APVV 19-0536. VEGA 2/0036/21)

ADCA07 DOSOUDIL, R. - ŠOKA, M.** - UŠÁKOVÁ, M. - UŠÁK, E. - JANČÁRIK, V. - DOBROČKA, Edmund. Magnetic and structural properties analysis of Cerium substituted Nickel–Zinc ferrites. In IEEE Transactions on Magnetics, 2022, vol. 58, no. 2200305. (2021: 1.848 - IF, Q3 - JCR, 0.730 - SJR, Q2 - SJR). ISSN 0018-9464. Dostupné na: https://doi.org/10.1109/TMAG.2021.3092581

ADCA08 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, 1.027 - 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)

ADCA09 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, 121785. (2021: 4.458 - IF, Q1 - JCR, 0.751 - SJR, Q1 - SJR). 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 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov)

ADCA10 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). ISSN 1996-1944. Dostupné na: https://doi.org/10.3390/ma15020667 (APVV 16-0418)

ADCA11 GABINET, U.R. - LEE, C. - KIM, N.K. - HULMAN, Martin - THOMPSON, S.M. - KAGAN, C.R. - OSUJI, C.O.**. Magnetic field alignment and optical anisotropy of MoS2 nanosheets dispersed in a liquid crystal polymer. In Journal of Physical Chemistry Letters, 2022, vol. 13, p. 7994–8001. (2021: 6.888 - IF, Q1 - JCR, 2.009 - SJR, Q1 - SJR). ISSN 1948-7185. Dostupné na: https://doi.org/10.1021/acs.jpclett.2c01819 (APVV-19-0365 TMD2DCOR)

ADCA12 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

ADCA13 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). ISSN 1051-8223. Dostupné na: https://doi.org/10.1109/TASC.2022.3147436 (VEGA 1/0205/21. APVV 20-0056)

ADCA14 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). ISSN 1051-8223. Dostupné na: https://doi.org/10.1109/TASC.2022.3171192 (VEGA 1/0205/21)

ADCA15 GOZZELINO, L.** - FRACASSO, M. - SOLOVYOV, Mykola - GÖMÖRY, Fedor - NAPOLITANO, A. - GERBALDO, R. - GHIGO, G. - LAVIANO, F. - TORSELLO, D. - GRIGOROSCUTA, M.A. Screening of magnetic fields by superconducting and hybrid shields with a circular cross-section. In Superconductor Science and Technology, 2022, vol. 35, no. 044002. (2021: 3.482 - IF, Q2 - JCR, 0.826 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: https://doi.org/10.1088/1361-6668/ac4ad0

ADCA16 HOFER, C.** - MUSTONEN, K. - SKÁKALOVÁ, V. - PENNYCOOK, T.J. Few-tilt electron ptychotomography: a new method to determine the 3D structure of 2D

materials with high-precision and low-dose. In Microscopy and Microanalysis, 2022, vol. 28, no. S1, p. 2526-2527. (2021: 4.099 - IF, Q1 - JCR, 0.379 - SJR, Q3 - SJR). ISSN 1431-9276.

ADCA17 HURAN, Jozef** - BOHÁČEK, Pavol - SASINKOVÁ, Vlasta - KLEINOVÁ, Angela - MIKOLÁŠEK, Miroslav - KOBZEV, Aexander P. Amorphous silicon carbide thin films doped with P or B for the photoelectrochemical water splitting devices. In Current Applied Physics, 2022, vol. 34, p. 101-106. (2021: 2.856 - IF, Q2 - JCR, 0.521 - SJR, Q2 - SJR). ISSN 1567-1739. Dostupné na: https://doi.org/10.1016/j.cap.2021.11.014 (VEGA 2/0084/20)

ADCA18 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). ISSN 0030-4026. Dostupné na: https://doi.org/10.1016/j.ijleo.2022.168869

ADCA19 KEMENY, M. - ONDREJKA, P. - WEIS, M. - HURAN, Jozef - ANDOK, Robert - HOTOVÝ, I. - MIKOLÁŠEK, M.**. Plasmonic enhanced photo-electrochemical water splitting on amorphous silicon structures. In Optik, 2022, vol. 257, no. 168769. (2021: 2.840 - IF, Q2 - JCR, 0.523 - SJR, Q2 - SJR). ISSN 0030-4026. Dostupné na: https://doi.org/10.1016/j.ijleo.2022.168769

ADCA20 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, Q2 - JCR, 0.922 - SJR, Q1 - SJR). 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)

ADCA21 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). ISSN 2227-7390. Dostupné na: https://doi.org/10.3390/math10040596

ADCA22 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). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-022-20625-6 (APVV 19-0536. VEGA 2/0036/21)

ADCA23 KOVÁČ, Pavol** - KOPERA, Ľubomír - BEREK, Dušan - HAIN, Miroslav - MELIŠEK, Tibor - HUŠEK, Imrich - KOVÁČ, Ján - BÚRAN, Marek. High-current-density Rutherford MgB2 cable sheathed by CuNi30 alloy. In Superconductor Science and Technology, 2022, vol. 35, no. 115003. (2021: 3.482 - IF, Q2 - JCR, 0.826 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: https://doi.org/10.1088/1361-6668/ac8ad5 (APVV 18-0271)

ADCA24 KOVÁČ, Pavol** - BÚRAN, Marek - KOPERA, Ľubomír. Behaviour of Al2O3-oxide insulated and non-insulated superconducting MgB2 coils cooled by water ice. In Superconductor Science and Technology, 2022, vol. 35, no. 095007. (2021: 3.482 - IF, Q2 - JCR, 0.826 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: https://doi.org/10.1088/1361-6668/ac7d12

ADCA25 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: 3.482 - IF, Q2 - JCR, 0.826 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: https://doi.org/10.1088/1361-6668/ac4afe

ADCA26 KOVÁČ, Pavol** - KOPERA, Ľubomír - MELIŠEK, Tibor - BÚRAN, Marek - HUŠEK, Imrich - BEREK, Dušan - KOVÁČ, Ján. Water ice-cooled MgB2 coil made by wind and react process. In Superconductor Science and Technology, 2022, vol. 35, no. 055001. (2021: 3.482 - IF, Q2 - JCR, 0.826 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: https://doi.org/10.1088/1361-6668/ac521c

ADCA27 KOZAK, Andrii** - HOFBAUEROVÁ, Monika, Benkovičová - HALAHOVETS, Yuriy - PRIBUSOVÁ SLUŠNÁ, Lenka - PRECNER, Marián - MIČUŠÍK, Matej - OROVČÍK, Ľubomír - HULMAN, Martin - STEPURA, Anastasiia - OMASTOVÁ, Mária - ŠIFFALOVIČ, Peter - ŤAPAJNA, Milan**. Nanofriction properties of mono- and double-layer Ti3C2Tx 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). ISSN 1944-8244. Dostupné na: https://doi.org/10.1021/acsami.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)

ADCA28 KOZAK, Andrii** - SOJKOVÁ, Michaela - GUCMANN, Filip - BODIK, Michal - VÉGSO, Karol - DOBROČKA, Edmund - PÍŠ, I. - BONDINO, F. - HULMAN, Martin - ŠIFFALOVIČ, Peter - ŤAPAJNA, Milan**. Effect of the crystallographic c-axis orientation on the tribological properties of the few-layer PtSe2. In Applied Surface Science, 2022, vol. 605, art. no. 154883. (2021: 7.392 - IF, Q1 - JCR, 1.147 - SJR, Q1 - SJR). ISSN 0169-4332. Dostupné na: https://doi.org/10.1016/j.apsusc.2022.154883 (APVV-17-0560 : Tribologické vlastnosti 2D materiálov a príbuzných nanokompozitov/. APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou. 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 2/0059/21)

ADCA29 KRYLOV, Sergei - VETROVA, Iuliia - FEILHAUER, Juraj - FEDOR, Ján - DÉRER, Ján - ŠOLTÝS, Ján** - CAMBEL, Vladimír. Improved durable vortex core MFM tip. In Journal of Magnetism and Magnetic Materials, 2022, vol. 555, no. 169357. (2021: 3.097 - IF, Q3 - JCR, 0.606 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: https://doi.org/10.1016/j.jmmm.2022.169357 (APVV 19-0311. VEGA 2/0168/22. ITMS2014+: 313021T081 : Vybudovanie Centra pre využitie pokročilých materiálov Slovenskej akadémie vied)

ADCA30 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). ISSN 2366-9608. Dostupné na: https://doi.org/10.1002/smtd.202101546

ADCA31 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: 3.482 - IF, Q2 - JCR, 0.826 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na:

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ADCA32 MRKÝVKOVÁ, Naďa, Tesařová** - HELD, Vladimír - HALAHOVETS, Yuriy - NÁDAŽDY, Peter - JERGEL, Matej - MAJKOVÁ, Eva - SCHREIBER, F. - ŠIFFALOVIČ, Peter. Simultaneous measurement of X-ray scattering and photoluminescence during molecular deposition. In Journal of Luminescence, 2022, vol. 248, art. no. 118950. (2021: 4.171 - IF, Q2 - JCR, 0.640 - SJR, Q2 - SJR). ISSN 0022-2313. Dostupné na: https://doi.org/10.1016/j.jlumin.2022.118950 (APVV-17-0352 : Časovo-rozlíšené štúdium rastu hybridných van der Waalsových heteroštruktúr. APVV-19-0465 : Hybridné nízkorozmerné vrstevnaté materiály s novými funkciami. APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou. SK-AT-20-0006 : Molekulárne nanoštruktúry na dvojdimenzionálnych subsrátov. VEGA 2/0046/21 : Vplyv zabudovania MXénov do perovskitových solárnych článkov)

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ADEA Vedecké práce v ostatných zahraničných časopisoch – impaktovaných

ADEA01 ŠOUC, Ján - GÖMÖRY, Fedor - VOJENČIAK, Michal - FROLEK, Lubomír - ISFORT, D. - EHRENBERG, J. - BOCK, J. AC loss of the short coaxial superconducting cable model made from ReBCO coated tapes. In Journal of Physics: Conference Series, 2008, vol. 97, no. 012198. (2007: 0.258 - SJR, Q3 - SJR). (2008 - WOS, SCOPUS). ISSN 1742-6588.

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ADEB01 HOTOVÝ, I. - HURAN, Jozef - SPIESS, L. - ROMANUS, H. - CAPONE, S. -

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

ADMA01 DUBORSKÁ, E. - SZABO, K. - BUJDOŠ, M. - VOJTKOVÁ, Hana - LITTERA, Pavol - DOBROČKA, Edmund - KIM, Hie Lim - URÍK, Martin**. Assessment of aspergillus niger strain's suitability for arsenate-contaminated water treatment and adsorbent recycling via bioextraction in a laboratory-scale experiment. In Microorganisms, 2020, vol. 8, no. 1668. (2019: 4.152 - IF, Q2 - JCR). (2020 - WOS, SCOPUS). ISSN 2076-2607. Dostupné na: https://doi.org/10.3390/microorganisms8111668

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ADMA04 GUROV, J.B. - ROZOV, S.V. - SANDUKOVSKIJ, V.G. - YAKUSHEV, E.A. - HRUBČÍN, Ladislav - ZAŤKO, Bohumír. Characteristics of silicon carbide detectors. In Instruments and Experimental Techniques, 2015, vol. 58, p. 22-24. (2014: 0.331 - IF, Q4 - JCR, 0.254 - SJR, Q3 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0020-4412. Dostupné na: https://doi.org/10.1134/S0020441215010054

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GII01 AINSLIE, M.D.** - GRILLI, F. - QUEVAL, L. - PARDO, Enric - PEREZ-MENDEZ, F. - MATAIRA, R. - MORANDI, A. - GHABELI, Asef - BUMBY, C. - BRAMBILLA, R. A new benchmark problem for electromagnetic modelling of superconductors: the high-Tc superconducting dynamo (2020 Supercond. Sci. Technol. 33 105009) : Corrigendum. In Superconductor Science and Technology, 2021, vol. 34, no. 029502. (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/abd522

Citácie:

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benchmark problem. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, JUN 2021, vol. 34, no. 6., Registrované v: WOS

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne 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, Ústav elektrotechniky

Ing. Ján Šoltýs, PhD
Názov semestr. predmetu: Nanotechnológie
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚJFI

Semestrálne cvičenia:

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, Ústav elektrotechniky

RNDr. Dagmar Gregušová, DrSc.
Názov semestr. predmetu: Praktikum Fyziky tuhých látok
Počet hodín za semester: 20
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra experimentálnej fyziky

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, Ústav elektrotechniky

Ing. Marek Mošať, PhD.
Názov semestr. predmetu: Elektromagnetické prvky a systémy
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav elektrotechniky

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, Ústav elektrotechniky

Ing. Ján Šoltýs, PhD
Názov semestr. predmetu: Nanotechnológie
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚJFI

Príloha E

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**
Bulharsko					Milan Ťapajna	3
Česko					Martin Hulman	1
					Tibor Izsák	5
					Lenka Pribusová Slušná	2
					Viera Skákalová	3
					Ján Šoltýs	1
					Jaroslav Tóbik	1
					Gabriel Vanko	5
					Marian Varga	9
					Marian Varga	10
					Marian Varga	6
					Tatiana Vojteková	2
					Bohumír Zaťko	3
					Bohumír Zaťko	4
Dánsko					Boris Hudec	5
					Marián Precner	5
Francúzsko					Anang Dadhich	3
					Michal Mruczkiewicz	2
					Enric Pardo	3
					Viera Skákalová	5
					Arpit Kumar Srivastava	3
Holandsko					Eugen Seiler	9
Nemecko					Fedor	3

					Gömöry	
					Fedor Gömöry	7
					Fedor Gömöry	6
					Boris Hudec	3
					Pavol Kováč	7
					Tomáš Kujovič	3
					Tomáš Kujovič	6
					Marek Mošať	3
					Marek Mošať	6
					Enric Pardo	1
					Rastislav Ries	3
					Arpit Kumar Srivastava	1
Nórsko					Peter Hutár	15
Poľsko	Štefan Chromik	5			Michal Mruczkiewicz	13
					Michal Mruczkiewicz	11
Rakúsko					Martin Hulman	3
					Tibor Izsák	5
					Michaela Sojková	5
					Gabriel Vanko	5
					Tatiana Vojteková	3
Srbsko					Martin Hulman	2
Švajčiarsko					Fedor Gömöry	5
					Arif Hussain	6
					Michal Mruczkiewicz	5
					Eugen Seiler	6
Taliansko					Jana Hrdá	4
					Jana Hrdá	4
					Martin Hulman	5
					Martin Hulman	3

					Martin Hulman	10
					Štefan Chromik	3
					Peter Kotrusz	9
					Peter Nádaždy	10
					Viera Skákalová	9
					Michaela Sojková	5
					Michaela Sojková	4
					Marianna Španková	3
					Tatiana Vojteková	4
USA					Ján Fedor	30
Počet vyslaní spolu	**1**	**5**			**61**	**326**

(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**
Nemecko					Winkler T.	3
Poľsko	Gierlowski P.	6				
	Zajcewa I.	6				
Rakúsko					Zaoli Z.	2
Srbsko					Damnjanovic M.	2
Počet prijatí spolu	**2**	**12**			**3**	**7**

(C) Účasť pracovníkov pracoviska na konferenciách v zahraničí (nezahrnutých v "A"):

Krajina	**Názov konferencie**	**Meno pracovníka**	**Počet dní**
Belgicko	ALD 2022	Boris Hudec	4
Česko	NANOCON 2022	Tibor Izsák	4
		Marian Varga	4
Dánsko	MDE	Ondrej Pohorelec	4
Francúzsko	IWED 2022	Viera Skákalová	5
Japonsko	TWHM 2022	Ján Kuzmík	10
Japonsko (online)	ISS 2022	Anang Dadhich	2
		Enric Pardo	2
	TTC2022 Meeting	Rastislav Ries	3
Nemecko	GW	Michaela Sojková	6
	HTS4Fusion & MEM 2022	Marek Búran	7

		Fedor Gömöry	7
		Pavol Kováč	7
		Rastislav Ries	7
		Mykola Soloviov	7
	IWN 2022	Michal Blaho	6
		Dagmar Gregušová	6
		Ján Kuzmík	6
		Ondrej Pohorelec	6
		Peter Šichman	6
Poľsko	e-MRS	Filip Gucmann	5
		Roman Stoklas	5
		Milan Ťapajna	5
		Gabriel Vanko	5
	e-MRS 2022	Jana Hrdá	5
	IEEE NAP 2022	Juraj Feilhauer	6
	JEMS 2022	Iuliia Vetrova	6
Portugalsko	IASM	Konstantin Bublikov	5
	WOCSDICE	Filip Gucmann	6
		Jozef Novák	6
Španielsko	NANO 2022	Viera Skákalová	5
	SSM	Ján Šoltýs	5
Švajčiarsko	EWEG	Martin Hulman	5
		Lenka Pribusová Slušná	5
		Tatiana Vojteková	5
Taliansko	CIMTEC 2022	Fedor Gömöry	5
	IEEE NSS	Bohumír Zaťko	7
	iWoRiD	Norbert Gál	6
		Bohumír Zaťko	6
Ukrajina (online)	In IEEE 2nd Ukrainian Microwave Week 2022	Tetiana Kalmykova	2
USA	ASC 2022	Anang Dadhich	11
		Fedor Gömöry	11
		Tomáš Kujovič	11
		Marek Mošať	11
		Rastislav Ries	11
Veľká Británia	EFATS	Enric Pardo	2
Spolu	**25**	**46**	**271**

Vysvetlivky: MAD - medziakademické dohody, KD - kultúrne dohody, VTS - vedecko-technická spolupráca v rámci vládnych dohôd

Skratky použité v tabuľke C:

ALD 2022 - 22st International Conference on Atomic Layer Deposition
ASC 2022 - Applied Superconductivity Conference 2022
CIMTEC 2022 - 15th International Conference on Modern Materials and Technologies
e-MRS - 20th E-MRS Fall Meeting 2022
e-MRS 2022 - 20th E-MRS Fall Meeting 2022
EFATS - 2nd International Conference on Emissions Free Air Transport through Superconductivity
EWEG - 5th European Workshop on Epitaxial Graphene and 2D Materials
GW - Graphene Week 2022
HTS4Fusion & MEM 2022 - 5th HTS4Fusion Conductor Workshop & 10th MEM Mechanical & Electromagnetic Properties of Composite Superconductors

IASM - 4th International Advanced School on Magnonics
IEEE NAP 2022 - IEEE 12th International Conference "Nanomaterials: Applications & Properties
IEEE NSS - 2022 IEEE Nuclear Science Symposium, Medical Imaging Conference and Room Temperature Semiconductor Detector
In IEEE 2nd Ukrainian Microwave Week 2022 - UMW 2022
ISS 2022 - 35th International Symposium on Superconductivity
IWED 2022 - 5th International Workshop on Electron Dynamics
IWN 2022 - International Workshop on Nitride Semiconductors
iWoRiD - 23nd International Workshop on Radiation Imaging Detectors
JEMS 2022 - Joint European Magnetic Symposia
MDE - Modern directions in Epitaxy
NANO 2022 - 16th International Conference on Nanostructured Materials
NANOCON 2022 - 14th International Conference on Nanomaterials
SSM - Sol-SkyMag 2022
TTC2022 Meeting - Tesla Technology Collaboration
TWHM 2022 - 14th Topical Workshop on Heterostructure Microelectronics
WOCSDICE - 45th Workshop on Compound Semiconductor Devices and Integrated Circuits

Príloha F

Vedecko-popularizačná činnosť pracovníkov organizácie SAV

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Mgr. Fridrich Egyenes		TL	Kyseliny v kuchyni	Quark	26.3.2022
doc. Ing. Fedor Gömöry, DrSc.		IN	Podľa vedca zo SAV nie sú reaktory na jadrovú fúziu len ďalšia technologická kuriozita. Môžu kompletne zmeniť budúcnosť energetiky	Refresher (webový portál)	18.3.2022
doc. Ing. Fedor Gömöry, DrSc.		TL	Vedci dosiahli prelom v jadrovej fúzii	SME	27.1.2022
doc. Ing. Fedor Gömöry, DrSc.		TL	Veľký krok vpred. Pri fúznej reakcii vyrobili rekordné množstvo energie	DennikN	11.2.2022
Ing. Filip Gucmann, PhD.	M. Španková, D. Gregušová, T. Kujovič, M. Mošať, Ľ. Frolek	iné	Európska noc výskumníkov	Stará tržnica, Bratislava	2022
Ing. Filip Gucmann, PhD.	O. Pohorelec	IN	Reklamná kampaň "nové PhD témy na ElÚ SAV"	Facebook a Instagram ElÚ SAV	2022
Ing. Filip Gucmann, PhD.	O. Pohorelec, F. Egyenes	iné	Prezentačný stánok v rámci kariérneho veľtrhu Dni príležitostí	FEI STU	2022
RNDr. Katarína Neilinger, PhD.		PB	Je veda riešením na všetko?	ESET Science Award	2022
Mgr. Bohumír Zaťko, PhD		TV	Inovatívny detektor ionizovaného žiarenia	VAT na STV2	19.2.2022

[1] *PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédiá, DO - dokumentárny film*