Elektrotechnický ústav SAV

Správa o činnosti organizácie SAV za rok 2019

Bratislava
január 2020

Obsah

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Elektrotechnický ústav SAV
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: doc. Ing. Fedor Gömöry, DrSc.
Adresa: Dúbravská cesta 9, 841 04 Bratislava

http://www.elu.sav.sk

Tel.: 02/ 5922 2555
E-mail: elu.sav@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: Príspevková od roku 1993

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	115	81	34	23	6	109	81.45	62.02	11.1
Vedeckí pracovníci	54	46	8	8	2	49	41.49	40.49	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci[1])	28	20	8	13	4	27	11.08	11.08	0
Odborní pracovníci VŠ (ostatní zamestnanci[2])	5	2	3	0	0	5	5.3	1.33	2
Odborní pracovníci ÚS	19	10	9	2	0	19	16.88	9.12	9.1
Ostatní pracovníci	9	3	6	0	0	9	6.7	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 31.12.2019 (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 31.12.2019 (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 31.12.2019)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	9	35	0	4	10	27	9
Ženy	1	8	0	0	1	4	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	14	3.0	8	7.1	7	7.0	6	5.7	3	3.0	4	4.0	2	2.0	13	10.8	12	7.2
Ženy	5	2.3	1	1.0	2	2.0	0	0.0	1	1.0	1	1.0	1	1.0	6	5.6	0	0.0

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

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2019

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	48.6	51.7	47.5
Ženy	51.6	45.2	45.9
Spolu	49.5	50.8	47.2

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

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2019

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	15	3	120326	120326	-	-	17879	-
2. Projekty APVV	9	8	-	-	494129	351316	-	92820
3. Projekty OP ŠF	0	1	-	-	-	-	9315	9315
4. Projekty SASPRO	0	0	-	-	-	-	-	-
5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	0	0	-	-	-	-	-	-

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

Tabuľka 2b Domáce projekty podané v roku 2019

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2019	-	4	2
2. Projekty výziev OP ŠF podané r. 2019	Bratislava	1	
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2019

Tabuľka 2c Medzinárodné projekty riešené v roku 2019

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 7. RP EÚ a Horizont 2020	0	4	-	-	-	-	18226	202786
2. Projekty ERA.NET, ESA, JRP	0	2	-	-	-	-	25000	-
3. Projekty COST	0	1	-	-	-	-	-	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	1	0	-	-	10244	10244	-	-
5. Projekty v rámci medzivládnych dohôd	1	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD	0	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	1	0	25000	25000	-	-	-	-
8. Podpora MVTS z národných zdrojov okrem SAV (APVV a iné)	1	0	-	-	12000	12000	-	-
9. Iné projekty	2	0	-	-	-	-	-	-

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

2.2.2. Medzinárodné projekty Horizont 2020 podané v roku 2019

Tabuľka 2d Počet projektov Horizont 2020 v roku 2019

	A	B
Počet podaných projektov Horizont 2020		4

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu
Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe B.

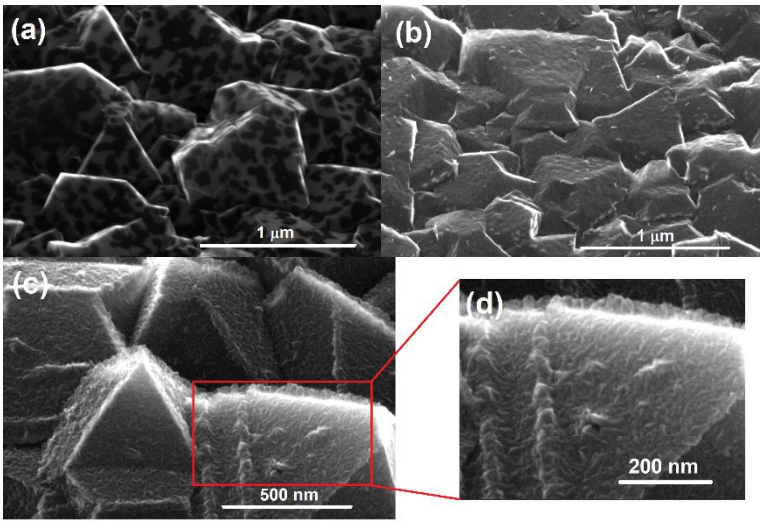
2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

2.3. Najvýznamnejšie výsledky vedeckej práce (maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF)

2.3.1. Základný výskum

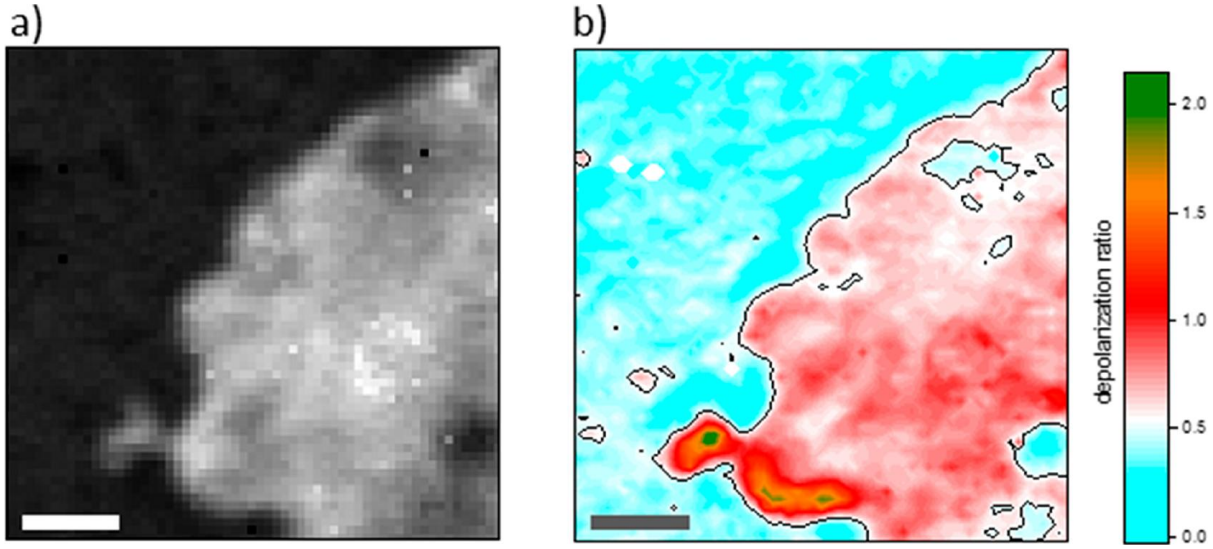
Názov: **Kontrolovaný rast a pokročilá charakterizácia veľmi tenkých vrstiev MoS_2**
Riešitelia: M. Sojková, P. Hutár, G. Vanko, A. Rosová, E. Dobročka, M. Hulman, J. Dérer
Projekt, v rámci ktorého sa dosiahli výsledky: APVV-15-0693, APVV-17-0352, APVV-17-0560, VEGA 2/0149/17

Veľmi tenké vrstvy MoS_2 sú sľubnými kandidátmi na aplikácie v mnohých oblastiach. Všeobecne sú možné dve možnosti orientácie vrstiev MoS_2 - horizontálna a vertikálna, ktoré majú rôzne fyzikálno-chemické vlastnosti. Pri príprave týchto materiálov pomocou sulfurizácie Mo vrstiev sa počiatočná hrúbka Mo ukázala byť kritickým parameterom ovplyvňujúcim konečnú orientáciu vrstiev MoS_2. Cieľom práce bolo štúdium vplyvu ďalších parametrov prípravy na orientáciu vrstiev. Ukázalo sa, že rýchlosť zahrievania je rozhodujúcim parametrom pre rastový mechanizmus, kde rýchla sulfurizácia vedie k rastu vertikálnych vrstiev MoS_2 a pomalé odparovanie síry vedie k horizontálnemu rastu dokonca aj pre hrubšie počiatočné vrstvy molybdénu. Použitá metóda jednozónej sulfurizácie navyše umožnila rast MoS_2 na povrchu CVD diamantových vrstiev. Toto zistenie môže otvoriť cestu pre rast MoS_2 vrstiev na substrátoch, ktoré sú inak citlivé na chemickú reakciu s molybdénom.



SEM obrázky vrstiev MoS_2 pripravených z (a) 1 nm, (b) 3 nm a (c, d) 6 nm Mo vrstiev na mikrokryštalickom CVD diamantovom substráte. V (d) sú stojace vločky MoS_2 viditeľné na okraji kryštálu diamantu.

MoS_2 vrstvy boli ďalej študované pomocou polarizovanej Ramanovej spektroskopie. Experimentálne výsledky ukazujú, že polarizovaná Ramanova spektroskopia je spoľahlivá, jednoduchá a nedeštruktívna metóda poskytujúca informácie o usporiadaní vrstiev v zlúčeninách dichalkogenidov prechodových kovu. Najmä intenzita Ramanovej spektrálnej čiary so symetriou E_{2g} vykazuje polarizačnú závislosť, ktorá je charakteristická pre rôzne orientácie atómových rovín vzhľadom na podložku. Ukázali sme, že depolarizačný pomer E_{2g} čiary vykazuje rôzne hodnoty pre dve významné, horizontálne a vertikálne, orientácie vrstiev MoS_2. Ďalej sme odvodili analytické výrazy pre depolarizačný pomer a potvrdili sme, že pre E_{2g} čiaru sú teoretické hodnoty v dobrej zhode s experimentálnymi. V práci sme tiež demonštrovali praktické využitie tejto metódy pre stanovenie orientácie MoS_2 vrstvy deponovanej na vločkách chemicky redukovaného oxidu grafénu (rGO). Významný je poznatok, že pomocou relatívne jednoduchého optického merania sa dá identifikovať orientácia vrstvy MoS_2 so submikrometrovým laterálnym rozlíšením.



a) Optický obrázok vrstvy redukovaného GO (svetlá oblasť) pokrytej vrstvou MoS_2.
b) Mapa faktoru depolarizácie E2g ramanovského módu MoS_2. Mierka stupnice 2 μm. Rozdielna hodnota depolarizačného faktora znamená rozdielnu orientáciu tenkej vrstvy MoS_2 na a mimo GO.

Výstupy:

1. **Sojková**, M., Végso, K., Mrkývkova, N., Hagara, J., **Hutár**, P., **Rosová**, A., Čaplovičová, M., Ludacka, U., Skákalová, V., Majková, E., Šiffalovič, P., and **Hulman**, M.: Tuning the orientation of few-layer MoS_2 films using one-zone sulfurization, RSC Advances 9 (2019) 29645-29651. IF 3.049, Q SJR 1

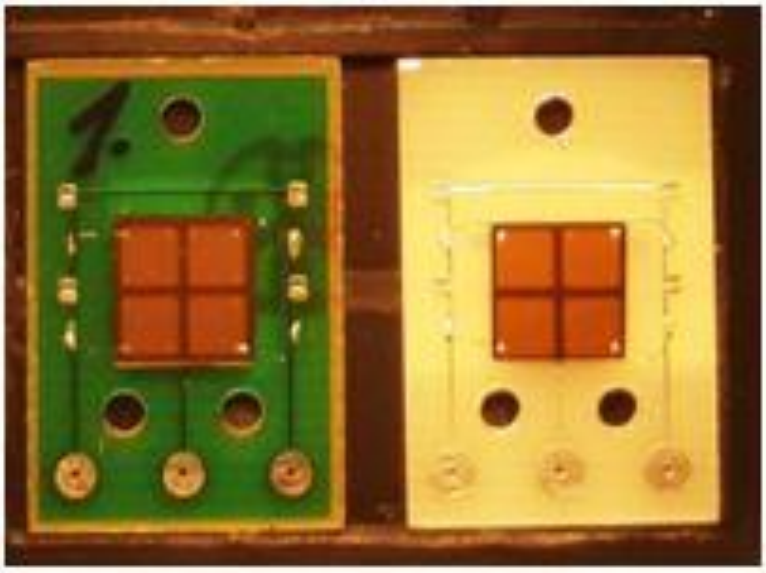
2. **Sojková**, M., Šiffalovič, P., Babchenko, O., **Vanko**, G., **Dobročka**, E., Hagara, J., Mrkývková, N., Majková, E., Ižák, T., Kromka, A., and **Hulman**, M.: Carbide-free one-zone sulfurization method grows thin MoS_2 layers on polycrystalline CVD diamond, Scientific Reports 9 (2019) 2001. IF 4.011, Q SJR 1

3. **Hulman**, M., **Sojková**, M., Vegso, K., Mrkývková, N., Hagara, J., **Hutár**, P., Kotrusz, P., Hudec, J., Tokár, K., Majková, E., and Šiffalovič, P.: Polarized Raman reveals alignment of few-layer MoS_2 films, Journal of Physical Chemistry C 123 (2019) 29468-29475. IF 4.309, Q SJR 1.

2.3.2. Aplikačný typ

Názov: **Výroba a dodávka 4H-SiC senzorov žiarenia vyvinutých pre potreby laboratória na výskumné účely**
Riešitelia: B. Zaťko, F. Dubecký, P. Boháček, M. Sekáčová, J. Arbet
Používateľ: Ústav jaderné fyziky AV ČR, v.v.i., 250 68 Řež, Česká Republika
Finančný prínos: 6000,- €

Vyvinuli sme špeciálny veľkoplošný detektor jadrových častíc a fotónov na báze čistého epitaxného materiálu 4H-SiC. Originálna úprava riešenia predstavuje náhradu jedného veľkoplošného detektora o ploche ca 40 mm^2 štvoricou menších detektorov po ca 10 mm^2. Špeciálny držiak umožňuje zapojenie jedného resp. až všetkých štyroch detektorov na vstup vyčítavacieho obvodu elektroniky. Toto riešenie predstavuje vyššiu výťažnosť výroby a aj adekvátne zníženie šumu pri zapojení každého detektora do vlastného vstupného obvodu predzosilňovača.



Fotografia 4H-SiC senzorov žiarenia nalepených a nakontaktovaných na špeciálne držiaky

2.3.3. Medzinárodné vedecké projekty

Názov: **Vysokoteplotné supravodivé silnoprúdové zariadenia pre čistejšiu budúcnosť**
Riešitelia: E. Pardo, F. Gömöry, M. Búran, A. Dadhich, L. Frolek, A. Ghabeli, M. Kapolka, L. Kopera, J. Kováč, L. Kopera, S. Li, E. Mikulášová, M. Mošať, M. Soloviov, J. Šouc, M. Vojenčiak
Projekty, v rámci ktorého sa dosiahli výsledky: HORIZONT2020 ASuMED, FASTGRID

Európska únia si plne uvedomuje nevyhnutnosť znižovania produkcie skleníkových plynov zvyšovaním podielu a efektivity obnoviteľných zdrojov pri súčasnom zachovaní konkurencieschopnosti priemyslu. Dva projekty Horizon 2020 FASTGRID a ASuMED sú zamerané na dosahovanie týchto cieľov vývojom supravodivých výkonových zariadení s využitím

vysokoteplotných supravodivých REBCO pások.
Cieľom projektu FASTGRID je vývoj supravodivého obmedzovača skratových prúdov slúžiaceho v budúcnosti ako ochrana vysokonapäťovej jednosmernej elektrickej siete, ktorá je potrebná na širšiu implementáciu obnoviteľnej energie.
Úlohou projektu ASuMED je vývoj plne supravodivého elektromotora pre použitie v elektrických a hybridných lietadlách. Vysoký pomer výkonu k hmotnosti týchto motorov umožňuje distribuovaný pohon, vďaka ktorému je pre komerčné lety možné zníženie emisií častíc CO_2 o 75%, emisií NO_x o 90% a hlučnosti o 65%.
Elektrotechnický ústav SAV je plnohodnotným partnerom týchto projektov, združujúcich 11 resp. 9 medzinárodných vedeckých, ako aj priemyselných inštitúcií. Vo FASTGRID je našou úlohou vývoj stabilizačnej vrstvy s vysokou tepelnou kapacitou pre zlepšenie elektrotepelných vlastností REBCO pások, zahŕňajúci experimentálne merania aj počítačovým modelovanie. V projekte ASuMED máme za úlohu numerické modelovanie elektro-tepelných vlastností supravodivého motora a elektromagnetické meranie cievok statora.
FASTGRID rozpočet pre ElÚ SAV: 399 947,50 € (9 031 376,79 € celý projekt); ASuMED rozpočet pre ElÚ SAV: 286 210 € (4 776 226,25 € celý projekt).

Výstupy:

Články:

1. **Búran**, M., **Vojenčiak**, M., **Mošať**, M., **Ghabeli**, A., **Solovyov**, M., Pekarčíková, M., **Kopera**, Ľ., and **Gömöry**, F.: Impact of a REBCO coated conductor stabilization layer on the fault current limiting functionality, Supercond. Sci Technol. 32 (2019) 095008. IF 2.489, Q SJR 1

2. **Pardo**, E., Grilli, F., Liu, Y., Wolftädler, S., and Reis, T.: AC loss modeling in superconducting coils and motors with parallel tapes as conductor, IEEE Trans. Applied Supercond. 29 (2019) 5202505. IF 1.682, Q SJR 2

3. Tixador, P., Bauer, M., Bruzek, C., Calleja, A., Deutscher, G., Dutoit, B., **Gömöry**, F., Martini, L., Noe, M., Obradors, X., Pekarcikova, M., and Sirois, F.: Status of the European Union project FASTGRID, IEEE Trans. Applied Supercond. 29 (2019) 5603305. IF 1.682, Q SJR 2

Software licencie:

1. K**apolka**, M. and **Pardo**, E.: MEMEP3Dtool: Three-dimensional electro-magnetic modeling tool for superconductors based on the Minimum Electro-Magnetic Entropy Production (MEMEP) method.
License type: GNU General Public License version 3.
Repository website: https://github.com/epardov/MEMEP3Dtool

Vyžiadané prednášky:

1. Grilli, F., Benkel, T., Hänisch, J., Lao, M., Reis, T., Berberich, E., Wolfstädter, S., Schneider, C., Miller, P., Palmer, C., Glowacki, B., Climente-Alarcon, V., Smara, A., Tomkow, L., Teigelkötter, J., Stock, A., Büdel, J., Jeunesse, L., Staempflin, M., Delautre, G., Zimmermann, B., van der Woude, R., Perez, A., Samoilenkov, S., Molodyk, A., **Pardo**, E., **Kapolka**, M., Li, S., and **Dadhich**, A.: Superconducting motors for aircraft propulsion: the advanced superconducting motor experimental demonstrator project. In: 32th Inter. Symp. on Supercond. - ISS 2019. Kyoto 2019.

Prezentácie:

1. **Gömöry**, F., Adámek, M., and **Šouc**, J.: Overall critical current of CC tapes and devices when local critical currents fluctuate along the tape length. In: 26th Inter. Conf. on Magnet Technol. Vancouver 2019. Prednáška.

2. **Gömöry**, F., **Šouc**, J., **Vojenčiak**, M., **Mošať**, M., Pekarčíková, M., Lacroix, C., and Sirois, F.: Hot spot creation in coated conductors used for fault current limitation. In: EUCAS 2019. Glasgow 2019. Prednáška.

3. Tixador, P., Bauer, M., Calleja, A., Bruzek, C., Deutscher, G., Dutoit, B., **Gömöry**, F., Martini, L., Noe, M., Obradors, X., Pekarcikova, M., and Sirois, F.: Advances of the EC project FASTGRID. In: EUCAS 2019. Glasgow 2019. Vývеska.

4. Skarba, M., Pekarčíková, M., Cuninková, E., Mišík, J., Necpal, M., **Frolek**, L., and **Gömöry**, F.: Thermal cycling of overlap joints of CC tapes. In: EUCAS 2019. Glasgow 2019. Vývеska.

5. **Kujovič**, T. and **Gömöry**, F.: Influence of local deformation on critical current of HTS tape. In: EUCAS 2019. Glasgow 2019. Vývеska.

6. **Mikulášová**, E., Sojková, M., Pekarčíková, M., **Vojenčiak**, M., and Gömöry, F.: Low temperature bonding of non-stabilized coated conductor tapes. In: EUCAS 2019. Glasgow 2019. Vývеska.

7. **Mošať**, M., **Vojenčiak**, M., **Búran**, M., **Šouc**, J., Pekarčíková, M., and **Gömöry**, F.: HTS coated conductor current limiting performance at temperatures lower than 77K. In: EUCAS 2019. Glasgow 2019. Vývеska.

8. **Vojenčiak**, M., **Búran**, M., **Mošať**, M., Pekarčíková, M., and **Gömöry**, F.: Additional stabilization of REBCO coated conductors for fault current limiters. In: EUCAS 2019. Glasgow 2019. Vývеska.

9. Pekarčíková, M., Mišík, J., Skarba, M., Necpal, M., **Vojenčiak**, M., **Mošať**, M., and **Gömöry**, F.: Study of CC tapes damaged during fault current limitation at 66 K. In: EUCAS 2019. Glasgow 2019. Vývеska.

10. **Pardo**, E., **Kováč**, J., **Vojenčiak**, M., **Li**, S., Grilli, F., Liu, Y., Benkel, T., Wolftaedler, S., Berberich, E., and Reis, T.: AC loss in the distributed stator winding of a 1 MW motor for aviation. In: EUCAS 2019. Glasgow 2019. Prednáška.

11. **Dadhich**, A., **Kapolka**, M., **Pardo**, E., Climente-Alarcon, V., Smara, A., Mineev, N., Tomkow, L., Glowacki, B.A., and Grilli, F.: Cross-field demagnetization of 2G HTS stacks for high number of cycles. In: EUCAS 2019. Glasgow 2019. Prednáška.

12. **Kováč**, J., **Pardo**, E., **Vojenčiak**, M., **Li**, S., Berberich, E., and Reis, T.: Measured coupling AC loss in external fields of a stator coil for aircraft motor. In: EUCAS 2019. Glasgow 2019. Vývеska.

13. **Li**, S., **Pardo**, E., **Kováč**, J., **Vojenčiak**, M., Berberich, E., and Reis, T.: Coupling loss modelling for soldered HTS stacks and multi-tape-conductor coil. In: EUCAS 2019. Glasgow 2019. Vývеska.

14. Benkel, T., Liu, Y., **Pardo**, E., Wolftaedler, S., Reis, T., and Grilli, F.: AC Loss calculation in electrical machines with HTS coils using T-A formulation. In: EUCAS 2019. Glasgow 2019. Prednáška

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2019/ doplnky z r. 2018
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)	**1 / 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)	**44 / 0**
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	**15 / 0**
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	**0 / 0**
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	**2 / 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)	**9 / 0**
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	**13 / 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 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. 2018 (zdroj JCR) *Počet článkov / doplnky 2017*	14 / 0	21 / 0	9 / 0	4 / 0	48 / 0
Podľa SJR z r. 2018 (zdroj Scimago) *Počet článkov / doplnky 2017*	30 / 0	13 / 0	8 / 0	8 / 0	59 / 0

Tabuľka 2g Ohlasy

OHLASY	**Počet v r. 2018/ doplnky z r. 2017**
Citácie vo WOS (1.1, 2.1)	1174 / 18
Citácie v SCOPUS (1.2, 2.2)	58 / 22
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)	3 / 2
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	67
Prednášky a vývesky na domácich vedeckých podujatiach	17

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

Chromik, **Š**., **Talacko**, M., Bareli, G., Camerlingo, C., **Španková**, M., **Rosová**, A., Bar, I., and Jung, G.: Preparation, structural and electrical properties of YBCO strips with channels created by electron irradiation. In: 6th Inter. Conf. "Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News " (SURFINT-SREN VI). Florence 2019.

Dobročka, E., **Španková**, M., **Sojková**, M., **Chromik**, Š., **Hasenöhrl**, S., and **Novák**, J.: Structural characterization of textured thin films with various degree of complexity. In: 6th Inter. Conf. "Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News " (SURFINT-SREN VI). Florence 2019.

Ghabeli, A., **Pardo**, E., **Solovyov**, M., and **Šouc**, J.: Modeling and measurement of the voltage signal in HTS flux pumps. In: EUCAS 2019. Glasgow 2019. Pozvaná vývеska.

Gregušová, D., **Blaho**, M., **Pohorelec**, O., **Stoklas**, R., **Eliáš**, P., **Dobročka**, E., and **Kúdela**, R.: GaAs nanomembranes in device technology. In: 6th Inter. Conf. "Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News " (SURFINT-SREN VI). Florence 2019.

Kapolka, M., **Kováč**, J., and **Pardo**, E.: 3D modeling and measurements of a multi-tape pancake coil with coupling currents. In: EUCAS 2019. Glasgow 2019. Pozvaná vývеska.

Kováč, **P**., **Hušek**, I., **Kopera**, L., **Kováč**, J., **Melišek**, T., **Rosová**, A., **Gelušiaková**, B., and

Berek, D.: Superconducting wires, cables and coils with minimized mass. In: EUCAS 2019. Glasgow 2019. Pozvaná výveska.

Kuzmik, J.: GaN-based normally-off HEMTs for switching and logic applications. In: ISPlasma2019/IC-PLANTS2019. Nagoya 2019.

Kuzmik, J.: GaN-based normally-off HEMTs for switching and logic applications. In Materials Research Meeting 2019 (MRM2019) Yokohama 2019.

Novák, J., **Laurenčíková**, A., **Eliáš**, P., **Hasenöhrl**, S., Kováč, J.jr., Kováč, J., Urbancová, P., and Pudiš, D.: Winned nanoparticle structures for surface enhanced raman scattering. In: 6th Inter. Conf. "Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News " (SURFINT-SREN VI). Florence 2019.

Grilli, F., Benkel, T., Hänisch, J., Lao, M., Reis, T., Berberich, E., Wolfstädter, S., Schneider, C., Miller, P., Palmer, C., Glowacki, B., Climente-Alarcon, V., Smara, A., Tomkow, L., Teigelkötter, J., Stock, A., Büdel, J., Jeunesse, L., Staempflin, M., Delautre, G., Zimmermann, B., van der Woude, R., Perez, A., Samoilenkov, S., Molodyk, A., **Pardo**, E., **Kapolka**, M., **Li**, S., and **Dadhich**, A.: Superconducting motors for aircraft propulsion: the advanced superconducting motor experimental demonstrator project. In: 32th Inter. Symp. on Supercond. - ISS 2019. Kyoto 2019.

Ťapajna, **M**., **Gregušová**, D., **Fröhlich**, K., and **Kuzmík**, J.: Present state of InAlN/GaN MOS gate technology. In 11th International Conference on Nanomaterials - Research & Application - NANOCON 2019. Brno 2019.

Tóbik, J., **Ščepka**, T., **Feilhauer**, J., Karapetrov, G., **Šoltýs**, J., **Fedor**, J., **Vetrova**, J., **Cambel**, V., **Precner**, M., **Mruczkiewicz**, M., and **Bublikov**, K.: Magnetic nanostructures and their dynamics. In: 9th Inter. Conf. on Nanomater.: Applications & Properties '2019 - NAP 2019. Odesa 2019.

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

Precner, M., Polakovič, T., Qiao, Q., Trainer, D.J., Putilov, A.V., Di Giorgio, C., Cone, I., Zhu, Y., Xi, X.X., Iavarone, M., and Karapetrov, G.: Evolution of metastable defects and its effect on the electronic properties of MoS_2 films. In: 24th Konferencia slovenských fyzikov. Žilina 2019.

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

Kuzmik J.: GaN-based normally-off HEMTs for switching and logic applications. EPFL Lausanne 2019.

Solovyov, M.: A formulation for full 3D modelling of superconductor magnetization. Politecnico di Torino 2019.

Ťapajna, M.: Selected reliability issues of GaN (MOS-) HEMTs for RF and switching applications. Univ. Bristol, Center for device termography and reliability. Bristol 2019.

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2019

2.7.1. Vynálezy, na ktoré bol v roku 2019 udelený patent

a) na Slovensku

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2019

a) na Slovensku

Názov vynálezu: Spôsob opracovania a nástroj na opracovanie vnútorných stien kanálikov v krehkých materiáloch v nanometrovej oblasti
Číslo prihlášky: PP50023-2019
Dátum priority: 2019
Majiteľ / spolumajiteľ: Integra TDS, s.r.o./ Elektrotechnický ústav SAV
Pôvodcovia vynálezu: Korytár Dušan, Michal Svorada, Zápražný Zdenko

Názov vynálezu: Spôsob výroby hrotu pre magnetickú silovú mikroskopiu, hrot vyrobený týmto spôsobom a spôsob skenovania magnetického poľa použitím tohto hrotu
Číslo prihlášky: 50030-2019
Dátum priority: 3.7.2019
Majiteľ / spolumajiteľ: Elektrotechnický ústav SAV
Pôvodcovia vynálezu: Cambel Vladimír, Šoltýs Ján, Tóbik Jaroslav, Fedor Ján, Precner Marián, Feilhauer Juraj, Ščepka Tomáš, Dérer Ján, Bublikov Konstantin, Vetrova Iuliia

b) v iných krajinách ako prioritná prihláška

c) PCT

d) EP

Názov vynálezu: Atomic Layer Process Printer
Krajina: Dánsko
Číslo prihlášky: EP19178248
Dátum priority: 4.6.2019
Majiteľ / spolumajiteľ: DTU Denmark, SAV Slovakia, FAU Universtat Germany
Pôvodcovia vynálezu: M. Plakonyuk, O. Hansen, A. Boisen, T. Rindzievicius, Kundrata Ivan, Fröhlich Karol, J. Bachmann

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

Názov vynálezu: Superconductor wire based on MgB2 core with Al based sheath and method of its production
Krajina: Čína
Číslo prihlášky: US 16/613,471, CN (No. N/A), EP (No. N/A)
Dátum priority: 2019
Majiteľ / spolumajiteľ: ÚMMS SAV
Pôvodcovia vynálezu: Balog Martin, Krížik Peter, Kováč Pavol, Hušek Imrich, Kopera Ľubomír, Rosová Alica

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
Dubecký František	VEGA	1
Gregušová Dagmar	APVV	2
	VEGA	3
	Ženy vo vede	3
Hulman Martin	SAS-HAS	1
	VEGA	1
Soloviov Mykola	Program na podporu mladých výskumníkov FEI STU (MVP RESFE)	1
Tóbik Jaroslav	VEGA	2

2.10. Recenzovanie publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet recenzovaných monografií, článkov, zborníkov

Meno pracovníka	Knižné monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Fröhlich Karol	0	0	3	0	0	0	0
Ghabeli Juybari Asef	0	0	1	0	0	0	0
Gömöry Fedor	0	0	20	0	0	0	0
Gregušová Dagmar	0	0	6	0	0	0	0
Hulman Martin	0	0	3	0	0	0	0
Chromik Štefan	0	0	4	0	0	0	0
Kováč Pavol	0	0	14	0	0	0	0
Kuzmík Ján	0	0	14	0	0	0	15
Novák Jozef	0	0	5	0	0	0	0
Osvald Jozef	0	0	3	0	0	0	0
Pardo Enric	0	0	7	0	0	0	0
Rosová Alica	0	0	2	0	0	0	0
Sojková Michaela	0	0	9	0	0	0	0
Soloviov Mykola	0	0	11	0	0	0	0
Ťapajna Milan	0	0	10	0	0	0	0
Vojenčiak Michal	0	0	2	0	0	0	0
Zaťko Bohumír	0	0	2	0	0	0	0
Spolu	**0**	**0**	**116**	**0**	**0**	**0**	**15**

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 2019

Forma	Počet k 31.12.2019				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2019					
							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	14	3	2	0	9	3	0	2	0	0	0	0
Denná z iných zdrojov	0	1	0	0	1	1	1	0	0	0	0	0
Externá	1	0	0	0	1	0	0	0	0	0	0	0
Spolu	15	4	2	0	11	4	1	2	0	0	0	0
Súhrn	19		2		15		3		0		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.
Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v „Súhrn“ je súčtom dvoch buniek nad ňou. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2019 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.

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	0	0	0	0	0	0

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2019 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
Mgr. Jana Brndiarová	interné štúdium hradené z prostriedkov SAV	9 / 2014	8 / 2019	4.1.3 fyzika kondenzovaných látok a akustika	Ing. Karol Fröhlich DrSc., Elektrotechnický ústav SAV	Fakulta matematiky, fyziky a informatiky UK
Ing. Prerna Chauhan	interné štúdium hradené z prostriedkov SAV	9 / 2016	11 / 2019	4.1.3 fyzika kondenzovaných látok a akustika	Ing. Ján Kuzmík DrSc., Elektrotechnický ústav SAV	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 2019 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. Norbert Gál	interné štúdium hradené z iných zdrojov	9 / 2015	8 / 2019	5.2.48 fyzikálne inžinierstvo	RNDr. Vladimír Štrbík CSc., Elektrotechnický ústav SAV	Fakulta elektrotechniky a informatiky STU

3.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 3e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2019 (obhajoba leto 2019)	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	1	0	1	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	RUS/3, IND/2, IRN/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	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
fyzika kondenzovaných látok a akustika	4.1.3	Fakulta matematiky, fyziky a informatiky UK
elektronika	5.2.13	Fakulta elektrotechniky a informatiky STU
fyzikálne inžinierstvo	5.2.48	Fakulta elektrotechniky a informatiky STU

Tabuľka 3h Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do spoločných 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)	Mgr. Ján Kováč, PhD. (IIa)
doc. RNDr. Edmund Dobročka, CSc. (fyzikálne inžinierstvo)	doc. Ing. Fedor Gömöry, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	Dr. Michal Mruczkiewicz (IIa)
Ing. Karol Fröhlich, DrSc. (teoretická elektrotechnika)	doc. Ing. Jozef Novák, DrSc. (Fakulta elektrotechniky a informatiky STU)	Ing. Zdenko Zápražný, PhD. (IIa)
Ing. Karol Fröhlich, DrSc. (elektrotechnológie a materiály)		Mgr. Jana Brndiarová, PhD. (PhD., Fakulta matematiky, fyziky a informatiky UK)
Ing. Karol Fröhlich, DrSc. (elektronika)		Ing. Norbert Gál, PhD. (PhD., Fakulta elektrotechniky a informatiky STU)
doc. Ing. Fedor Gömöry, DrSc. (fyzikálne inžinierstvo)		Ing. Prerna Chauhan, PhD. (PhD., Fakulta elektrotechniky a informatiky STU)
RNDr. Dagmar Gregušová, DrSc. (elektronika)		
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)		
Ing. Milan Ťapajna, PhD. (elektronika)		
Ing. Gabriel Vanko, PhD. (elektronika)		

3.8. Údaje o pedagogickej činnosti

Tabuľka 3i Prednášky a cvičenia vedené v roku 2019

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	2	1	6	1
Celkový počet hodín v r. 2019	9	10	36	10

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**	5
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	5
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	15
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	22
5.	**Počet oponovaných dizertačných a habilitačných prác**	7
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	5
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**	8
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·

Práca so študentami

- Tradične Ústav zamestnáva VŠ študentov formou VPS. Ich práca často vyústi do prípravy semestrálnych, bakalárskych a diplomových prác. V r. 2019 ich bolo 8.

Š. Chromik (M. Bennár bakalár FEI STU)
A. Mošková (M. Jenča diplomant FMFI UK)
A. Rosová (Došenovič bakalár FEI STU)
M. Soloviov (Kucharovič bakalár FEI STU)
M. Ťapajna (Sobota bakalár FEI STU)
M. Vojenčiak (M. Búran diplomant FEI STU)
B. Zaťko (M. Škerlik diplomant, A. Pažitný bakalár FEI STU)

- V máji absolvovali 2 týždňové Praktické vyučovanie formou odbornej praxe študenti SPŠE Adlera.

Študenti boli rozdelení do skupín, každá skupina bola na jednom zo štyroch oddelení. Postupne sa oboznamovali s metódami výroby mikročipov, s technologickými postupmi pri príprave polovodičových súčiastok, meraniami základných parametrov súčiastok. Pomocou rôznych zobrazovacích techník (rastrovací elektrónový mikroskop, mikroskop s atomárnym rozlíšením) mohli pozorovať objekty submikrometrových rozmerov. Venovali sa aj tvarovaniu použitím iónového zväzku. Zisťovali čo je supravodivosť, mohli si napr. vyskúšať postup výroby supravodivých káblov, oboznámili sa s prípravou a tvarovaním tenkých supravodivých vrstiev.
Študentom sa venovali vedeckí pracovníci (M. Blaho, D. Gregušová, M. Kučera, M. Sojková, R. Stoklas, M. Španková, M. Ťapajna, G. Vanko), doktorandi (F. Egyenes-Pörsök, P. Hutár O. Pohorelec, P. Šichman) aj inžinierski pracovníci (L. Frolek, S. Hasenöhrl, E. Kováčová, T. Melišek).
Skúsenosti získané na našom pracovisku môžu pomôcť žiakom pri výbere vysokej školy a orientácii pracovať vo výskume v technických vedách.

- Pre študentov supravodivosti na FEI STU viedli kurz Elektromagnetické systémy pracovníci Oddelenia supravodivosti. Po úvodnej prednáške F. Gömöryho viedli cvičenia L. Frolek, M. Soloviev, J. Šouc, M. Vojenčiak.

· **Zvyšovanie teoretickej a praktickej zdatnosti PhD študentov**

Vedeckí pracovníci Ústavu (E. Dobročka, A. Rosová, J. Šoltýs, M. Ťapajna) viedli prednáškový kurz pre PhD študentov Methods for Materials Diagnostics 2019-2020.
Kurz prebiehal v angličtine, zúčastnili sa ho aj doktorandi z iných ústavov, FMFI UK aj FEI STU.

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4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2019 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 2020 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

ASDAM 2020, Smolenice, cca 80 účastníkov, 11.10.-14.10.2020, (Gabriel Vanko, 02/ 5922 2739, 2541, gabriel.vanko@savba.sk)

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
Cambel Vladimír	0	0	1
Dobročka Edmund	0	0	1
Gömöry Fedor	0	0	2
Gregušová Dagmar	0	0	1
Kuzmík Ján	1	0	1
Novák Jozef	0	0	2
Spolu	1	0	8

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.

European Society for Applied Superconductivity (funkcia: člen výboru)

Ing. Pavol Kováč, DrSc.

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

Mgr. Enric Pardo, PhD.

HTS Modelling Workgroup (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	COST	12
Osvald Jozef	Funding scheme SONATA, Poland	1

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

InN: breaking the limits of compound semiconductors, grand agreement No. 654360 NFFA-Europe (https://www.nffa.eu/).

Kučera, M., Adikimenakis, A., **Dobročka, E., Kúdela, R., Ťapajna, M., Laurenčíková**, A., Georgakilas, A., and **Kuzmík**, J.: Structural, electrical, and optical properties of annealed InN films grown on sapphire and silicon substrates, Thin Solid Films 672 (2019) 114-119

Adikimenakis A., P. Chatzopoulou, G. P. Dimitrakopulos, Th. Kehagias, K. Tsagaraki, M. Androulidaki, G. Doundoulakis, **J. Kuzmik**, and A. Georgakilas: Correlation of Threading Dislocations with the Electron Concentration and Mobility in InN Heteroepitaxial Layers Grown by MBE, ECS Journal of Solid State Science and Technology 9 (2020) 015006.

MAD s Inštitútom fyziky PAV - Poľsko, Varšava – riešenie projektu (Príprava a vlastnosti supravodivých, magnetických, a dielektrických vrstiev pre kryoelektronické štruktúry), v rámci riešenia projektu z Inštitútu fyziky navštívili oddelenie Dr. Bruno Camargo a Dr. Piotr Gierlowski a realizovali sa analýzy (SEM, rtg) pripravených vrstiev. V rámci návštevy sa pripravili a pripravujú spoločné publikácie, ktoré by mali vyjsť budúci rok.

V rámci MAD sa uskutočnila pracovná cesta Ing. Š. Chromika, DrSc., na Univerzitu Beersheva, Izrael (prof. Grzegorz Jung) a na Racah Institute of Physics, The Hebrew University of Jerusalem (Jeruzalem), kde sa zaoberali s vlastnosťami a štruktúrou elektrónmi ožiarených vzoriek, meraniami vzoriek tenkých vrstiev Nb a NbN nanesených na cylindrickú podložku. So skupinou Prof. Paltiela pripravili spoločný článok do CC časopisu.

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

Základné princípy práce na ElÚ sú akademická sloboda, spoločné využívanie a dostupnosť prístrojov, zodpovednosť vedúcich oddelení a projektov pri hospodárení a odmeňovanie. Úlohou vedenia ústavu je vytváranie takých podmienok pre vedeckých pracovníkov, aby celkový vedecký výkon ústavu bol maximálny, pričom dbá najmä o chod zariadení – infraštruktúru, o formálny priebeh doktorandského štúdia, príjem nových pracovníkov, mzdovú politiku a pod. Čo sa týka vedeckej činnosti, riadi sa Strategickým plánom a odporúčaniami Advisory Boardu (AB).

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

Hlavné odporúčania z akreditácie ústavu boli zriadiť Advisory Board a zvýšiť publikačnú produkciu ústavu. ElÚ SAV má svoj Strategický plán a po zriadení AB sa automaticky všetky odporúčania AB stávajú jeho súčasťou.

5.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

Advisory Board dala ElÚ v r. 2017 **odporúčania**, podľa ktorých sa snažíme pracovať. Rok 2018 bol náročný kvôli nerealizovanej transformácii, takže na plnenie odporúčaní sme sa mohli plne sústrediť až v r. 2019.
AB v r. 2019 ocenila, že sme ju rešpektovali a konštatovala pokrok v mnohých oblastiach:

- bola definovaná misia ústavu, stratégia oddelení a ujasnili sme si, čo považujeme za úspech pre jednotlivé riešené témy,
- vytvorili sme 4 nové postdoc pozície – cez medzinárodný tender (Euraxess),
- úspešne sme omladili ústav - na ElÚ už pracuje viac mladých pracovníkov (PhD + postdoc) ako starších VP (bez započítania inžinierskych prac.),
- sme úspešní v EÚ projektoch, podaných bolo 5 projektov, jeden úspešne,
- podali sme 4 patenty – výrazný nárast oproti minulosti. Dva z nich si vyžadujú zvýšenú pozornosť:
  - doktorand Kundrata podal patent s partnermi v Dánsku, ten už priniesol aj projekt H2020 a založenie spin-off firmy v Dánsku
  - patent P. Kováča v spolupráci s ÚMMS– Najľahší supravodič – vstúpil do národných fáz – ochrana v USA, EÚ a Číne,
- hospodárska činnosť vzrástla (SiC detektory, práce pre ANL a Intel) – spolu za 68 600 €,
- zaznamenali sme pokrok v internacionalizácií, v aktualizácii webu, zvýšení info tokov,
- publikovali sme Biennial Report vysokej úrovne.

Na tieto výsledky môžeme byť právom hrdí. AB nás však upozornil aj na nedostatky v práci:

- prijali sme málo doktorandov – veľká škoda, v r. 2020 treba tiež využívať Euraxess,
- zlepšiť treba spoluprácu naprieč ústavom, získame tým pridanú hodnota v prierezových témach,
- musíme prehodnotiť prístup k hodnoteniu VP – v článkoch má byť PhD študent ako prvý autor a školiteľ ako posledný autor, v hodnotení treba uvážiť aj počet autorov,
- zvýšiť aktivitu na soc. sieťach Google Scholar, Research gate, atď.

5.3. Aktualizácia Akčného plánu organizácie v roku 2019

Úlohy definované v bode 5.2 sú automaticky súčasťou nášho Strategického plánu. Na týchto úlohách budeme v ďalšom období pracovať popri skvalitňovaní vedeckých výstupov a ďalšom omladzovaní ústavu. To sú výzvy, ktorých splnenie posunie náš ústav bližšie k organizáciám západného typu.

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

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

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi

7.1. Výsledky výskumu organizácie aplikované v praxi

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov/účel kontraktového výskumu: Návrh, výroba a inštalácia LN2 modulu pre Femtosekundovú elektrónovú difrakciu
Zadávateľ výskumného kontraktu: Drexel University, Department of Physics, Philadephia, USA
Začiatok spolupráce: 2019
Ukončenie spolupráce: 2019
Finančný prínos pre organizáciu (€): 7200

Názov/účel kontraktového výskumu: Oprava dvoch AFM skenerov pre LT MFM
Zadávateľ výskumného kontraktu: University of Salerno, Physics Department "E.R. Caianiello", Salerno, Taliansko
Začiatok spolupráce: 2019
Ukončenie spolupráce: 2019
Finančný prínos pre organizáciu (€): 2000

Názov/účel kontraktového výskumu: RF čistenie, žíhanie a naprašovanie Ti/Pt-Pd vrstiev na membrány pre elektrónové litografické zariadenia
Zadávateľ výskumného kontraktu: IMS Nanofabrication GmbH, Viedeň, Rakúsko
Začiatok spolupráce: 2019
Ukončenie spolupráce: 2019
Finančný prínos pre organizáciu (€): 6390

Názov/účel kontraktového výskumu: Výroba a dodávka 3×3 4H-SiC senzorov žiarenia vyvinutých pre potreby laboratória na výskumné účely
Zadávateľ výskumného kontraktu: Ústav jaderné fyziky AV ČR, v.v.i., 250 68 Řež, Česká Republika
Začiatok spolupráce: 2019
Ukončenie spolupráce: 2019
Finančný prínos pre organizáciu (€): 6000

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.	Komisia pre SUJV Dubna pri vláde SR	člen
doc. Ing. Fedor Gömöry, DrSc.	SKVH	člen
	Akreditačná komisia	člen Prac. skupiny pre elektrotechniku

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
Ing. Karol Fröhlich, DrSc.	Grantová agentúra MŠ - APVV	Člen Rady pre program Podpora výskumu a vývoja v podnikoch a podpora spolupráce podnikov s výskumnými organizáciami na obdobie rokov 2016 – 2019 (VVP)
doc. Ing. Fedor Gömöry, DrSc.	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	4	tlač	5	TV	2
rozhlas	1	internet	3	exkurzie	1
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	7				

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
Novák Jozef	0	0	1
Spolu	0	0	1

9.5. Členstvo v redakčných radách časopisov

Ing. Karol Fröhlich, DrSc.

Material Science in Semiconductor Processing (funkcia: člen)

doc. Ing. Fedor Gömöry, DrSc.

IEEE Transactions on Applied Superconductivity (funkcia: člen)

Ing. Štefan Chromik, DrSc.

ICRN Condensed Matter Physics (funkcia: člen)

Ing. Pavol Kováč, DrSc.

Superconductor Science and Technology (funkcia: člen)

doc. Ing. Jozef Novák, DrSc.

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

Ing. Jozef Osvald, DrSc.

Materials Science in Semiconductor Processing (funkcia: člen)

Mgr. Enric Pardo, PhD.

IEEE Transactions on Applied Superconductivity (funkcia: technický redaktor Spec. Iss. 5)

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

- · Európska noc výskumníkov 2019

13. ročník festivalu vedy na Slovensku Európska noc výskumníkov 2019 sa uskutočnil 27. 9. 2019.
ElÚ SAV sa prezentoval stánkom Elektrotechnika a fyzika zblízka
Návštevníci sa na vlastné oči presvedčili:
– Čo v praxi znamená magnetická levitácia – jav, ktorý sa využíva v najrýchlejšej doprave, kde sa Maglev vlaky pohybujú na vankúši magnetického poľa. Videli, ako sa vznáša supravodivý objekt nad magnetickou dráhou. Bolo im vysvetlené, čo je supravodivosť a prečo musíme náš "vláčik" ochladzovať kvapalným dusíkom.
– Ako sa dá pomocou obyčajnej ceruzky pripraviť najtenší materiál na svete – grafén. Grafén je známy neobyčajnými vlastnosťami, napríklad výbornou elektrickou a tepelnou vodivosťou a tiež

mechanickými vlastnosťami. Pripravili si monovrsty grafénu na špeciálnej podložke a takisto nakreslili funkčný elektrický obvod.
– Ako si vytvarovať polovodičovú súčiastku mikrometrových rozmerov a vyskúšať ako funguje tranzistor.
– Názornou videli nezvyčajné prejavy známych fyzikálnych javov ako napríklad efekt skrytého trenia, model vedenia elektrického prúdu alebo prejavy zákona elektromagnetickej indukcie.

- · ElÚ SAV zorganizoval 5. novembra Deň otvorených dverí

Ústav navštívilo 200 žiakov so sprievodom zo škôl:

- Cirkevná ZŠ Narnia
- SPŠE Zochova
- SPŠE Hálova
- Gymnázium J. Papánka
- Gymnázium Pezinok
- Mokrohájska

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		8276
z toho	knihy a zviazané periodiká	7321
	audiovizuálne dokumenty	
	elektronické dokumenty (vrátane digitálnych)	146
	mikroformy	
	iné špeciálne dokumenty - dizertácie, výskumné správy	809
	Rukopisy, vzácne tlače	
Počet titulov dochádzajúcich periodík		3
z toho zahraničné periodiká		1
Ročný prírastok knižničných jednotiek		
v tom	kúpou	4
	darom	5
	výmenou	
	bezodplatným prevodom	
	náhradou	
Úbytky knižničných jednotiek		
Knižničné jednotky spracované automatizovane		7321

*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	195

10.3. Používatelia

Tabuľka 10c Používatelia

Registrovaní používatelia	111
Návštevníci knižnice spolu (bez návštevníkov podujatí)	

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 €	1043

10.5. Iné informácie o knižničnej činnosti

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

doc. Ing. Fedor Gömöry, DrSc.

- člen

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

11.3. Členstvo vo vedeckých kolégiách SAV

RNDr. Vladimír Cambel, DrSc.

- VK SAV pre elektroniku, materiálový výskum a technológie (člen)

Ing. Pavol Kováč, DrSc.

- VK SAV pre elektroniku, materiálový výskum a technológie (predseda)

doc. RNDr. Martin Moško, DrSc.

- VK SAV pre matematiku, fyziku a informatiku (podpredseda)

11.4. 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.

- Komisia SAV pre infraštruktúru a štrukturálne fondy (člen - zástupca Snemu SAV)
- Komisia SAV pre medzinárodnú vedecko-technickú spoluprácu (člen - zástupca Snemu SAV)
- Komisia SAV pre vyhodnocovanie medzinárodných projektov (člen)
- Komisia SAV pre zahraničné styky (člen)
- Porota pre udeľovanie Medzinárodnej ceny SAV (člen)
- Rada SAV pre vzdelávanie a doktorandské štúdium (člen)

RNDr. Dagmar Gregušová, DrSc.

- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (člen)

Ing. Michal Vojenčiak, PhD.

- Bytová komisia SAV (člen)

11.5. Členstvo v orgánoch VEGA

doc. RNDr. Edmund Dobročka, CSc.

- Komisie VEGA č. 7 pre strojárstvo a príbuzné odbory informačných a komunikačných technológií a materiálové inžinierstvo (člen)

Dr. rer. nat. Martin Hulman

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

Ing. Štefan Chromik, DrSc.

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

Ing. Jozef Osvald, DrSc.

- Komisia č. 5 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. 2019 v €)

Typ organizácie (RO,PO)		**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	3121313,18	2225540,98	590709,59	305062,61	71,31
z toho: mzdy (610)	1597955,29	1310472,62	159021,22	128461,45	82,01
vedecká výchova štipendiá (640)	172234,89	153089,75	508,74	18636,40	88,88
poistné a príspevok do poisťovní (620)	540135,13	438718,43	55518,51	45898,19	81,22
tovary a služby (630)	656171,74	316115,58	232848,12	107208,04	48,18
transfery partnerom projektov (640)	154816,13	7144,60	142813,00	4858,53	4,61
2. Kapitálové výdavky	28319,60	12000		27119,60	42,37
z toho: obstarávanie kapitálových aktív	12000	12000		27119,60	42,37
kapitálové transfery	-	-	-	-	-

12.2. Zdroje financovania organizácie

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2019 v €)

Typ organizácie (RO,PO)		**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)	2225540,98	12000	1310472,62	438718,43	7144,60
z toho: VEGA	146690,00	6000	-	-	-
MVTS výskumné projekty	56000	6000	-	-	-
MVTS podpora	18226	-	-	-	-
SASPRO/MOREPRO	20592,18	-	-	-	-
Vydávanie časopisov	2547	-	-	-	-
Vedecká výchova (štipendiá)	153089,75	-	-	-	-
OTAS (630)	59180,4	-	-	-	-
2. ŠF EÚ vr. fin. zo ŠR	21186,04	-	14876,06	6309,98	-
3. medzinárodné grantové projekty	213259,01	-	110005	3844677	-
z toho H2020	213259,01	-	110005	3844677	-
4. iné štátne a verejné zdroje (spolu)	586949,00	-	152074,06	53149,89	142613,00
z toho: APVV	586949,00	-	152074,06	53149,89	142613,00
podpora z kapitoly MŠVVaŠ SR (stimuly)	-	-	-	-	-
5. ostatné zdroje	46022,23	-	11509,29	5082,80	4858,53
z toho: príjmy z prenájmu	-	-	-	-	-
príjmy z podnikateľskej činnosti	-	-	-	-	-
príjmy z expertnej činnosti a služieb	46022,23	-	11509,29	5082,80	4858,53

13. Nadácie a fondy pri organizácii SAV

14. Iné významné činnosti organizácie SAV

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2019

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Precner Marián
Súťaže mladých vedeckých pracovníkov SAV do 35 rokov - 3. miesto
Oceňovateľ: SAV

15.1.2. Iné domáce ocenenia

Precner Marián
Súťaž vedeckých prác mladých fyzikov 2019
Oceňovateľ: Slovenská fyzikálna spoločnosť
Opis: 1.cena

15.2. Medzinárodné ocenenia

Ščepka Tomáš
Súťaž o najlepší vedecký príspevok pracovníkov do 35 rokov
Oceňovateľ: SURFINT-SREN
Opis: 3. miesto, súťaž v rámci konferencie

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

17. 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, 02/ 5922 2908

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

Prílohy

Príloha A
Zoznam zamestnancov a doktorandov organizácie k 31.12.2019

Zoznam zamestnancov podľa štruktúry

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	RNDr. Vladimír Cambel, DrSc.	100	1.00
2.	Ing. Karol Fröhlich, DrSc.	50	0.60
3.	doc. Ing. Fedor Gömöry, DrSc.	100	1.00
4.	RNDr. Dagmar Gregušová, DrSc.	100	1.00
5.	Ing. Štefan Chromik, DrSc.	50	0.50
6.	Ing. Pavol Kováč, DrSc.	100	1.00
7.	Ing. Ján Kuzmík, DrSc.	100	1.00
8.	doc. RNDr. Martin Moško, DrSc.	10	0.10
9.	doc. Ing. Jozef Novák, DrSc.	60	0.60
10.	Ing. Jozef Osvald, DrSc.	60	0.60
Vedúci vedeckí pracovníci CSc., PhD.			
1.	Ing. František Dubecký, CSc.	20	0.20
Samostatní vedeckí pracovníci			
1.	Ing. Michal Blaho, PhD.	100	0.75
2.	RNDr. Pavol Boháček, CSc.	60	0.70
3.	doc. RNDr. Edmund Dobročka, CSc.	100	1.00
4.	Ing. Ján Fedor, PhD	100	1.00
5.	RNDr. Štefan Haščík, PhD.	100	1.00
6.	Dr. rer. nat. Martin Hulman	100	1.00
7.	Ing. Jozef Huran, CSc.	100	0.00
8.	RNDr. Dušan Korytár, CSc.	30	0.30
9.	Mgr. Ján Kováč, PhD.	100	1.00
10.	RNDr. Michal Kučera, PhD	100	1.00
11.	Ing. Róbert Kúdela, CSc.	60	0.60
12.	Ing. Peter Lobotka, CSc.	40	0.40
13.	RNDr. Antónia Mošková, CSc.	80	0.80
14.	Dr. Michal Mruczkiewicz	100	1.00
15.	Mgr. Enric Pardo, PhD.	100	1.00

16.	Ing. Jozef Pitel, CSc.	100	0.00
17.	Ing. Alica Rosová, CSc.	100	1.00
18.	Mgr. Eugen Seiler, PhD	100	1.00
19.	Mgr. Michaela Sojková, PhD.	100	1.00
20.	Mgr. Mykola Soloviov, PhD.	100	1.00
21.	Ing. Roman Stoklas, PhD.	100	1.00
22.	Ing. Ján Šoltýs, PhD	100	1.00
23.	Ing. Ján Šouc, CSc.	100	1.00
24.	RNDr. Marianna Španková, PhD	100	1.00
25.	RNDr. Vladimír Štrbík, CSc.	60	0.80
26.	Ing. Milan Ťapajna, PhD.	70	0.85
27.	Ing. Jaroslav Tóbik, PhD.	100	1.00
28.	Ing. Gabriel Vanko, PhD.	100	1.00
29.	Ing. Michal Vojenčiak, PhD.	100	1.00
30.	Ing. Zdenko Zápražný, PhD.	100	1.00
31.	Mgr. Bohumír Zaťko, PhD	100	1.00
Vedeckí pracovníci			
1.	Ing. Jozef Fabian, CSc	100	1.00
2.	Mgr. Juraj Feilhauer, PhD.	100	1.00
3.	Ing. Norbert Gál, PhD.	100	1.00
4.	Ing. Filip Gucmann, PhD.	100	0.28
5.	Ing. Ladislav Hrubčín, CSc.	10	0.00
6.	Ing. Milan Kapolka, PhD.	100	1.00
7.	Mgr. Mária Koscelanská, PhD.	100	0.33
8.	Mgr. Agáta Laurenčíková, PhD.	100	0.00
9.	Ing. Marián Precner, PhD.	100	1.00
10.	RNDr. Lenka Pribusová Slušná, PhD.	100	0.33
11.	Ing. Ivan Rýger, PhD.	100	0.00
12.	Ing. Tomáš Ščepka, PhD.	100	1.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Ing. Dušan Berek	100	1.00
2.	Mgr. Konstantin Bublikov	10	0.10
3.	Ing. Marek Búran	10	0.03
4.	MSc. Anang Dadhich	10	0.10
5.	Mgr. Fridrich Egyenes-Pörsök	10	0.10

6.	Ing. Peter Eliáš	100	1.00
7.	Ing. Lubomír Frolek	100	1.00
8.	Mgr. Štefan Gaži	20	0.20
9.	Ing. Bronislava Gelušiaková	10	0.10
10.	MSc. Asef Ghabeli Juybari	10	0.10
11.	Ing. Stanislav Hasenöhrl	100	1.00
12.	Ing. Imrich Hušek	100	1.00
13.	RNDr. Kristína Hušeková	100	1.00
14.	Mgr. Peter Hutár	10	0.10
15.	Ing. Prerna Chauhan, PhD.	100	0.08
16.	Ing. Eva Kováčová	100	1.00
17.	Ing. Tomáš Kujovič	10	0.10
18.	Ing. Ivan Kundrata	10	0.10
19.	Ing. Tibor Melišek	100	1.00
20.	Ing. Edita Mikulášová	10	0.10
21.	Ing. Marek Mošať	10	0.10
22.	RNDr. Katarína Neilinger	10	0.00
23.	Ing. Ondrej Pohorelec	10	0.10
24.	Ing. Rastislav Ries	10	0.10
25.	Mgr. Mária Sekáčová	100	1.00
26.	Mgr. Peter Šichman	10	0.10
27.	Ing. Marcel Talacko	40	0.20
28.	Mgr. Iuliia Vetrova	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
Odborní pracovníci ÚSV			
1.	Juraj Arbet	100	1.00
2.	Ján Dérer	80	0.80
3.	Dagmar Erbenová	80	0.82
4.	Michal Gerboc	100	1.00
5.	Iveta Grófova	100	1.00

6.	Martin Grujbár	100	1.00
7.	Ľubomír Kopera	100	1.00
8.	Magdaléna Krajčírová	100	1.00
9.	Peter Martiš	100	1.00
10.	Jakub Mojžiš	50	0.50
11.	Jana Ryzá	100	1.00
12.	Alena Seifertová	100	1.00
13.	Edita Sýkorová	50	0.50
14.	Edita Šimeková	100	1.00
15.	Stanislav Štefánik	100	1.00
16.	Juraj Tančár	100	1.00
17.	Iveta Tóthová	50	0.46
18.	Margita Valentínová	80	0.80
19.	Michal Vrbovský	100	1.00
Ostatní pracovníci			
1.	Jolana Častková	100	1.00
2.	Eva Domoráková	50	0.50
3.	Kvetoslava Hamburgová	100	1.00
4.	Ján Matlovič	60	0.60
5.	Júlia Poláková	50	0.50
6.	Mária Poórová	50	0.50
7.	Iveta Putiková	100	1.00
8.	Ivo Šimek	60	0.60
9.	Róbert Vanek	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	**Dátum odchodu**	**Ročný prepočítaný úväzok**
Vedeckí pracovníci			
1.	Ing. Shuo Li, PhD.	30.9.2019	0.75
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Jana Brndiarová, PhD.	31.5.2019	0.17
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Mgr. Miroslav Adámek	31.10.2019	0.83
2.	Ing. Anna Kršjaková	31.1.2019	0.07

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Mgr. Konstantin Bublikov	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
2.	Ing. Marek Búran	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
3.	MSc. Anang Dadhich	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
4.	Mgr. Fridrich Egyenes-Pörsök	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
5.	Ing. Bronislava Gelušiaková	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
6.	MSc. Asef Ghabeli Juybari	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
7.	Mgr. Peter Hutár	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
8.	Sergei Krylov	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
9.	Ing. Tomáš Kujovič	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
10.	Ing. Ivan Kundrata	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
11.	Ing. Edita Mikulášová	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
12.	Ing. Marek Mošať	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
13.	Ing. Ondrej Pohorelec	Fakulta elektrotechniky a informatiky STU	5.2.13 elektronika
14.	Ing. Rastislav Ries	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
15.	Mgr. Peter Šichman	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
16.	Ing. Marcel Talacko	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
17.	Mgr. Iuliia Vetrova	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
Interní doktorandi hradení z iných zdrojov			
1.	Mgr. Katarína Neilinger	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
Externí doktorandi			
1.	Ing. Peter Jančovič	Fakulta elektrotechniky a informatiky STU	5.2.13 elektronika

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

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

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi

Príloha B
Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medzivládna dohoda

1.) Technológia a vlastnosti supravodivých a magnetických oxidových vrstiev pre moderné elektronické aplikácie *(Technology and properties of superconductig and magnetic oxide films for modern electronic application)*

Zodpovedný riešiteľ:	Štefan Chromik
Trvanie projektu:	1.1.2019 / 31.12.2021
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Poľsko: 1
Čerpané financie:	-

Programy: COST

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:	-

Programy: International Visegrad Found (IVF)

3.) Vysokobezpečný GaN MOS spínací tranzistor *(Highly Safe GaN Metal-Oxide-Semiconductor Transistor Switch)*

Zodpovedný riešiteľ:	Ján Kuzmík
Trvanie projektu:	1.10.2015 / 30.3.2019
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV

Počet spoluriešiteľských inštitúcií:	3 - Maďarsko: 1, Japonsko: 1, Poľsko: 1
Čerpané financie:	EÚ: 10244 €

Dosiahnuté výsledky:

Gregušová, D., Tóth, L., Pohorelec, O., Hasenöhrl, S., Haščík, Š., Cora, I., Fogarassy, Z., Stoklas, R., Seifertová, A., Blaho, M., Laurenčíková, A., Oyobiki, T., Pécz, B., Hashizume, T., and Kuzmík, J.: InGaN/(GaN)/AlGaN/GaN normally-off metal-oxide-semiconductor high-electron mobility transistors with etched access region, Japan. J. Applied Phys. 58 (2019) SCCCD21.

Ťapajna, M., Drobný, J., Gucmann, F., Hušeková, K., Gregušová, D., Hashizume, T., and Kuzmík, J.: Impact of oxide/barrier charge on threshold voltage instabilities in AlGaN/GaN metal-oxide-semiconductor heterostructures, Mater. Sci in Semicond Process. 91 (2019) 356-361.

Kuzmik, J.: GaN-based normally-off HEMTs for switching and logic applications. In: ISPlasma2019/IC-PLANTS2019. Nagoya 2019. Invited.

Programy: Bilaterálne - iné

4.) Vývoj nových vodivých priehladných elektród pre organickú elektroniku *(Development of new designed transparent conductive electrodes for organic electronics)*

Zodpovedný riešiteľ:	Karol Fröhlich
Trvanie projektu:	1.2.2017 / 31.1.2020
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Turecko: 1
Čerpané financie:	SAV: 25000 €

Programy: ERANET

5.) Terahertzová spintronika a magnonika feromagnetov a antiferomagnetov *(Terahertz spintronics and magnonics of ferro- and antiferromagnets)*

Zodpovedný riešiteľ:	Michal Mruczkiewicz
Trvanie projektu:	1.7.2018 / 30.6.2021
Evidenčné číslo projektu:	177550
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Swiss Federal Institute of Technology in Lausanne
Počet spoluriešiteľských inštitúcií:	1 - Rusko: 1
Čerpané financie:	SAV: 25000 €

Dosiahnuté výsledky:

An, K., Bhat, V.S., Mruczkiewicz, M., Dubs, C., and Grundler, D.: Optimization of spin-wave propagation with enhanced group velocities by exchange-coupled ferrimagnet-ferromagnet bilayers, Phys. Rev. Applied 11 (2019) 034065.

Gruszecki,P., Banerjee, C., Mruczkiewicz, M., Hellwigde, O., Barman, A., and Krawczyk, A.: The influence of the internal domain wall structure on spin wave band structure in periodic magnetic stripe domain patterns, Solid State Phys. 70 (2019) 79-132.

Programy: Iné

6.) Topologické spinové vlny *(Topological spin waves)*

Zodpovedný riešiteľ:	Michal Mruczkiewicz
Trvanie projektu:	1.3.2019 / 30.5.2019
Evidenčné číslo projektu:	SAS-ERC/2018/576PHOTONOMETA
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 12000 €

7.) Dynamika magnetizácie s narušenou symetriou *(Symmetry broken magnetization dynamics)*

Zodpovedný riešiteľ:	Jaroslav Tóbik
Trvanie projektu:	1.1.2018 / 31.12.2019
Evidenčné číslo projektu:	NFFA 701
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Programy: Horizont 2020

8.) Nákladovo efektívne obmedzovače skratových prúdov využívajúce pokročilé supravodivé pásky pre budúce vysokonapäťové jednosmerne rozvodné siete *(Cost effective FCL using advanced superconducting tapes for future HVDC grids)*

Zodpovedný riešiteľ:	Fedor Gömöry
Trvanie projektu:	1.1.2017 / 30.6.2020
Evidenčné číslo projektu:	H2020-721019
Organizácia je koordinátorom projektu:	nie
Koordinátor:	CNRS
Počet spoluriešiteľských inštitúcií:	7 - Kanada: 1, Nemecko: 0, Španielsko: 1, Francúzsko: 1, Švajčiarsko: 1, Izrael: 1, Taliansko: 1, Slovensko: 1
Čerpané financie:	EÚ: 74445 € Podpora medzinárodnej spolupráce z národných zdrojov: 3797 €

Dosiahnuté výsledky:

Búran, M., Vojenčiak, M., Mošať, M., Ghabeli, A., Solovyov, M., Pekarčíková, M., Kopera, Ľ., and Gömöry, F.: Impact of a REBCO coated conductor stabilization layer on the fault current limiting functionality, Supercond. Sci Technol. 32 (2019) 095008.

Tixador, P., Bauer, M., Bruzek, C., Calleja, A., Deutscher, G., Dutoit, B., Gömöry, F., Martini, L., Noe, M., Obradors, X., Pekarcikova, M., and Sirois, F.: Status of the European Union project FASTGRID, IEEE Trans. Applied Supercond. 29 (2019) 5603305.

9.) Pokročilý experimentálny model supravodivého motora *(Advanced superconducting motor experimental demonstrator)*

Zodpovedný riešiteľ:	Enric Pardo
Trvanie projektu:	1.5.2017 / 30.4.2020
Evidenčné číslo projektu:	Horizon2020-723119
Organizácia je koordinátorom projektu:	nie
Koordinátor:	OSWALD ELEKTROMOTOREN GMBH
Počet spoluriešiteľských inštitúcií:	7 - Nemecko: 1, Francúzsko: 1, Veľká Británia: 3, Holandsko: 1, Rusko: 1
Čerpané financie:	EÚ: 103569 € Podpora medzinárodnej spolupráce z národných zdrojov: 5316 €

Dosiahnuté výsledky:

Pardo, E., Grilli, F., Liu, Y., Wolftädler, S., and Reis, T.: AC loss modeling in superconducting coils and motors with parallel tapes as conductor, IEEE Trans. Applied Supercond. 29 (2019) 5202505.

10.) Výskum a inovácie urýchľovačov pre európsku vedu a spoločnosť *(Accelerator research and innovation for european science and society)*

Zodpovedný riešiteľ:	Eugen Seiler
Trvanie projektu:	1.5.2017 / 30.4.2021
Evidenčné číslo projektu:	H2020-730871
Organizácia je koordinátorom projektu:	nie
Koordinátor:	CERN
Počet spoluriešiteľských inštitúcií:	21 - Rakúsko: 1, Belgicko: 1, Nemecko: 1, Španielsko: 2, Francúzsko: 2, Veľká Británia: 2, Maďarsko: 1, Švajčiarsko: 1, Taliansko: 2, Lotyšsko: 1, Malta: 1, Holandsko: 1, Poľsko: 1, Portugalsko: 1, Rumunsko: 1, Slovinsko: 1, Švédsko: 1
Čerpané financie:	EÚ: 21643 € Podpora medzinárodnej spolupráce z národných zdrojov: 5316 €

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

Zodpovedný riešiteľ:	Michal Vojenčiak
Trvanie projektu:	1.1.2014 / 31.12.2020

Evidenčné číslo projektu:	Horizon2020-633053
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Max-Planck Gesellschaft zur Forderung der Wissenschaften E.V.
Počet spoluriešiteľských inštitúcií:	33 - Rakúsko: 1, Belgicko: 1, Bulharsko: 1, 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:	EÚ: 3129 € Podpora medzinárodnej spolupráce z národných zdrojov: 3797 €

Programy: JRP

12.) *(An individual stimulating system with 3D nano-structure carbon/graphene based transducer and wireless heater for automated tiny insects behavior monitoring)*

Zodpovedný riešiteľ:	Robert Andok
Zodpovedný riešiteľ v organizácii SAV:	Gabriel Vanko
Trvanie projektu:	1.1.2018 / 31.12.2020
Evidenčné číslo projektu:	SAS-MOST JRP 2017/1
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav informatiky SAV
Počet spoluriešiteľských inštitúcií:	1 - Taiwan: 1
Čerpané financie:	-

Domáce projekty

Programy: VEGA

1.) Štúdium okrajových stavov a Landauových hladín v elektronickom umelom graféne *(Edge states and Landau levels in electronic artificial graphene)*

Zodpovedný riešiteľ:	Juraj Feilhauer
Trvanie projektu:	1.1.2018 / 31.12.2020
Evidenčné číslo projektu:	2/0162/18
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 3131 €

2.) Tenkovrstvové štruktúry pre využitie v energetike *(Thin film structures for energy applications)*

Zodpovedný riešiteľ:	Karol Fröhlich
Trvanie projektu:	1.1.2018 / 31.12.2021
Evidenčné číslo projektu:	2/0136/18
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 9738 €

Dosiahnuté výsledky:

Kundrata, I., Fröhlich, K., Vančo, L., Mičušík, M., and Bachmann, J.: Growth of lithium hydride thin films from solutions: Towards solution atomic layer deposition of lithiated films, Beilstein J. Nanotechnol. 10 (2019) 1443-1451.

Brndiarová, J., Siffalovic, P., Hulman, M., Kalosi, A., Bodik, M., Skakalova, V., Micusik M., Markovic, Z., Majkova, E., Fröhlich, K.,: Functionalized graphene transistor for ultrasensitive detection of carbon quantum dots, J. Appl. Phys 126 (2019) 214303.

3.) Návrh a príprava spojov vysokoteplotných supravodivých pások bezolovnatými spájkami a charakterizácia ich vlastností *(Design and preparation of high-temperature superconducting tapes joints using lead-free solders and characterization of their properties)*

Zodpovedný riešiteľ:	Fedor Gömöry
Trvanie projektu:	1.1.2017 / 31.12.2020
Evidenčné číslo projektu:	1/0151/17
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Materiálovotechnologická fakulta STU v Trnave
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 7661 €

Dosiahnuté výsledky:

Búran, M., Vojenčiak, M., Mošať, M., Ghabeli, A., Solovyov, M., Pekarčíková, M., Kopera, Ľ., and Gömöry, F.: Impact of a REBCO coated conductor stabilization layer on the fault current limiting functionality, Supercond. Sci Technol. 32 (2019) 095008.

Solovyov, M. and Gömöry, F.: A–V formulation for numerical modelling of superconductor magnetization in true 3D geometry, Supercond. Sci Technol. 32 (2019) 115001.

Gömöry, F., Šouc, J., Adámek, M., Ghabeli, A., Solovyov, M., and Vojenčiak, M.: Impact of critical current fluctuations on the performance of a coated conductor tape, Supercond. Sci Technol. 32 (2019) 124001.

4.) Opracovanie povrchu polovodiča ako cesta k novým III-As a III-N elektronickým súčiastkám *(Surface processing of semiconductors as the way towards new III-As and III-N electronic devices)*

Zodpovedný riešiteľ:	Dagmar Gregušová
Trvanie projektu:	1.1.2017 / 31.12.2020
Evidenčné číslo projektu:	2/0109/17
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 12392 €

Dosiahnuté výsledky:

Ťapajna, M., Drobný, J., Gucmann, F., Hušeková, K., Gregušová, D., Hashizume, T., and Kuzmík, J.: Impact of oxide/barrier charge on threshold voltage instabilities in AlGaN/GaN metal-oxide-semiconductor heterostructures, Mater. Sci in Semicond Process. 91 (2019) 356-361.

5.) Výskum progresívnych materiálov a štruktúr pre foto-elektrochemické aplikácie *(Investigation of advanced materials and structures for photoelectrochemical applications)*

Zodpovedný riešiteľ:	Jozef Huran
Trvanie projektu:	1.1.2016 / 31.12.2019
Evidenčné číslo projektu:	1/0651/16
Organizácia je koordinátorom projektu:	nie
Koordinátor:	FEI STU
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 3360 €

Dosiahnuté výsledky:

Chymo, F., Fröhlich, K., Kundrata, I., Hušeková, K., Harmatha, L., Racko, J., Breza, J., and Mikolášek, M.: Characterization of MIS photoanode with a thin SiO2 layer for photoelectrochemical water splitting, AIP Conf. Proc. 2131 (2019) 020020.

6.) Pokročilé monochromátory s pridanou funkcionalitou úpravy zväzku pre röntgenovú metrológiu a röntgenové zobrazovanie *(Advanced monochromators with added functionality of the beam conditioning for X-ray metrology and X-ray imaging)*

Zodpovedný riešiteľ:	Matej Jergel
Zodpovedný riešiteľ v organizácii SAV:	Zdenko Zápražný
Trvanie projektu:	1.1.2018 / 31.12.2020
Evidenčné číslo projektu:	2/0092/18
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 6858 €

Dosiahnuté výsledky:

Zápražný, Z., Korytár, D., Jergel, M., Halahovets, Y., Kotlár, M., Maťko, I., Hagara, J., Šiffalovič, P., Keckes, J., and Majková, E.: Characterization of the chips generated by the nanomachining of germanium for X-ray crystal optics, Inter. J. Adv. Manufactur. Technol. 102 (2019) 2757-2767.

Zápražný, Z., Korytár, D., Jergel, M., Halahovets, Y., Maťko, I., Šiffalovič, P., Kečkéš, J., Mikulík, P., Majková, E., and Thi, T.N.T.: Study of surface quality and subsurface damage of germanium optics produced by single point diamond nanomachining, Proc. SPIE 11032 (2019)11032E.

Nádaždy, P., Hagara, J., Jergel, M., Majková, E., Mikulík, P., Zápražný, Z., Korytár, D., and Šiffalovič, P.: Exploiting the potential of beam-compressing channel-cut monochromators for laboratory high-resolution small-angle X-ray scattering experiments, J. Applied Crystall. 52 (2019) 498-506.

Zaťko, B., Hrubčín, L., Boháček, P., Osvald, J., Šagátová, A., Sekáčová, M., Kováčová, E., and Nečas, V.: Electrical properties of detector Schottky diodes based on 4H-SiC high quality epitaxial layer, AIP Conf. Proc. 2131 (2019) 020054.

Šagátová, A., Zaťko, B., and Nečas, V.: Influence of holder quality on radiation hardness of SI GaAs detector, AIP Conf. Proc. 2131 (2019) 020038.

Kubanda, D., Zaťko, B., Šagátová, A., Žemlička, J., Zápražný, Z., Boháček, P., Dudák, J., Kováčová, E., and Nečas, V.: Performance of bulk semi-insulating GaAs-based sensor and its comparison to Si-based sensor for Timepix radiation camera, J. Instrument. 14 (2019) C01023.

7.) Pokročilé III-N súčiastky pre prenos informácie a energie *(Advanced III-N devices for energy and information transfer)*

Zodpovedný riešiteľ:	Ján Kuzmík
Trvanie projektu:	1.1.2018 / 31.12.2021
Evidenčné číslo projektu:	2/0012/18
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 9657 €

Dosiahnuté výsledky:

Hasenöhrl, S., Chauhan, P., Dobročka, E., Stoklas, R., Vančo, Ľ., Veselý, M., Bouazzaoui, F., Chauvat, M.-P., Reterana, P., and Kuzmík, J.: Generation of hole gas in non-inverted InAl(Ga)N/GaN heterostructures, Applied Physics Express 12 (2019) 014001.

Gregušová, D., Tóth, L., Pohorelec, O., Hasenöhrl, S., Haščík, Š., Cora, I., Fogarassy, Z., Stoklas, R., Seifertová, A., Blaho, M., Laurenčíková, A., Oyobiki, T., Pécz, B., Hashizume, T., and Kuzmík, J.: InGaN/(GaN)/AlGaN/GaN normally-off metal-oxide-semiconductor high-electron mobility transistors with etched access region, Japan. J. Applied Phys. 58 (2019) SCCCD21.

8.) Moderné nanoštruktúry pripravené sofistikovanou MOVPE technológiou *(Advanced nanostructures prepared by sophisticated MOVPE technology)*

Zodpovedný riešiteľ:	Jozef Novák
Trvanie projektu:	1.1.2017 / 31.12.2020

Evidenčné číslo projektu:	2/0104/17
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 10220 €

Dosiahnuté výsledky:

Eliáš, P. and Haščík, Š.: Fabrication of nanocones by RIE on GaP, J. Phys.: Conf. Ser. 1319 (2019) 012017.

9.) Fyzikálne problémy štruktúr MISFET a MISHFET na báze III-V a III-N polovodičov *(Physical problems of MISFET and MISHFET structures based on III-V and III-N semiconductors)*

Zodpovedný riešiteľ:	Jozef Osvald
Trvanie projektu:	1.1.2017 / 31.12.2020
Evidenčné číslo projektu:	2/0112/17
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 2932 €

Dosiahnuté výsledky:

Dubecký, F., Kindl, D., Hubík, P., Mičušík, M., Boháček, P., Zaťko, B., Gombia, E., Kováč, J., and Nečas, V.: Role of contacts in metal/semi-insulating GaAs/metal structures: symmetrical geometry, AIP Conf. Proc. 2131 (2019) 020010.

Dubecký, F., Zaťko, B., Kolesár, V., Kindl, D., Hubík, P., Gombia, E., and Dubecký, M.: Charge collection efficiency of Pt vs. Mg contacts on semi-insulating GaAs, Applied Surface Sci 467-468 (2019) 1219-1225.

Osvald, J.: Simulation of structure parameters' influence on threshold voltage of normally-off p-GaN/AlGaN/GaN transistors, Phys. Status Solidi A 216 (2019) 1900453.

10.) Rast a charakterizácia materiálu zo skupiny dichalkogenidov prechodových kovov: diselenid titánu *(Growth and characterization of a material from the group of transition metal dichalcogenides: titanium diselenide)*

Zodpovedný riešiteľ:	Marián Precner
Trvanie projektu:	1.1.2019 / 31.12.2021
Evidenčné číslo projektu:	2/0131/19
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 6524 €

11.) Magnetická interakcia supravodivých a feromagnetických vrstiev: modelovanie, charakterizácia a aplikácie *(Magnetic interaction of superconducting and ferromagnetic layers: modelling, characterization and applications)*

Zodpovedný riešiteľ:	Eugen Seiler
Trvanie projektu:	1.1.2018 / 31.12.2020
Evidenčné číslo projektu:	2/0097/18
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 25349 €

Dosiahnuté výsledky:

Búran, M., Vojenčiak, M., Mošať, M., Ghabeli, A., Solovyov, M., Pekarčíková, M., Kopera, Ľ., and Gömöry, F.: Impact of a REBCO coated conductor stabilization layer on the fault current limiting functionality, Supercond. Sci Technol. 32 (2019) 095008.

Kapolka, M. and Pardo, E.: 3D modelling of macroscopic force-free effects in superconducting thin films and rectangular prisms, Supercond. Sci Technol. 32 (2019) 054001.

Pardo, E., Grilli, F., Liu, Y., Wolftädler, S., and Reis, T.: AC loss modeling in superconducting coils and motors with parallel tapes as conductor, IEEE Trans. Applied Supercond. 29 (2019) 5202505.

Fagnard, J.F., Vanderheyden, B., Pardo, E., and Vanderbemden, P.: Magnetic shielding of various geometries of bulk semi-closed superconducting cylinders subjected to axial and transverse fields, Supercond. Sci Technol. 32 (2019) 074007.

Seiler, E., Gömöry, F., Ries, R., M., and Vojenčiak, M.: Analysis of critical current anisotropy in commercial coated conductors in terms of the maximum entropy approach, Sci Technol. 32 (2019) 095004.

12.) 2D materiály a iónové kvapaliny pre využitie v mikroelektronike a senzorike *(2D materials and ionic liquids in microelectronics and sensors)*

Zodpovedný riešiteľ:	Michaela Sojková
Trvanie projektu:	1.1.2017 / 31.12.2020
Evidenčné číslo projektu:	2/0149/17
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 6518 €

Dosiahnuté výsledky:

Sojková, M., Šiffalovič, P., Babchenko, O., Vanko, G., Dobročka, E., Hagara, J., Mrkývková, N., Majková, E., Ižák, T., Kromka, A., and Hulman, M.: Carbide-free one-zone sulfurization method grows thin MoS_2 layers on polycrystalline CVD diamond, Sci Rep. 9 (2019) 2001.

Sojková, M., Végso, K., Mrkývkova, N., Hagara, J., Hutár, P., Rosová, A., Čaplovičová, M., Ludacka, U., Skákalová, V., Majková, E., Šiffalovič, P., and Hulman, M.: Tuning the orientation of few-layer MoS2 films using one-zone sulfurization, RSC Adv. 9 (2019) 29645-29651.

13.) 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
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 3218 €

14.) Štúdium magnetických efektov na nanoúrovni *(Study of magnetic effects at nanoscale)*

Zodpovedný riešiteľ:	Ján Šoltýs
Trvanie projektu:	1.1.2019 / 31.12.2021
Evidenčné číslo projektu:	2/0160/19
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 10864 €

Dosiahnuté výsledky:

Bol podaný patent (je zatiaľ v konaní): Spôsob výroby hrotu pre magnetickú silovú mikroskopiu, hrot vyrobený týmto spôsobom a spôsob skenovania magnetického poľa použitím tohto hrotu.

15.) Perovskitovské tenké vrstvy a štruktúry vhodné pre modern elektroniku a senzoriku *(Perovskite thin films and structures for modern electronics and sensorics)*

Zodpovedný riešiteľ:	Marianna Španková
Trvanie projektu:	1.1.2018 / 31.12.2021
Evidenčné číslo projektu:	2/0117/2018
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 7243 €

Dosiahnuté výsledky:

Gál, N., Štrbík, V., Gaži, Š. Chromik, Š., and Talacko, M.: Resistance anomalies at superconducting transition in multilayer N/S/F/S/N heterostructures, J. Supercond. Novel Magnet. 32 (2019) 213-217.

16.) Adaptácia algoritmu metadynamiky na problémy mikromagnetizmu *(Application of the metadynamics algorithm to micromagnetism)*

Zodpovedný riešiteľ:	Jaroslav Tóbik
Trvanie projektu:	1.1.2018 / 31.12.2021
Evidenčné číslo projektu:	2/0150/18
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 6263 €

17.) Vysokoteplotná charakterizácia, integrácia a spoľahlivosť MEMS senzorov tlaku na báze AlGaN/GaN *(High temperature characterization, integration and reliability of MEMS pressure sensors based on AlGaN/GaN)*

Zodpovedný riešiteľ:	Gabriel Vanko
Trvanie projektu:	1.1.2017 / 31.12.2019
Evidenčné číslo projektu:	2/0150/17
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 2414 €

18.) Detekcia ionizujúcich častíc s využitím senzorov na báze semiizolačného GaAs a 4H-SiC pre fyziku vysokých energií *(Detection of ionizing particles using sensors base on semi-insulating GaAs and 4H-SiC for high energy physics)*

Zodpovedný riešiteľ:	Bohumír Zaťko
Trvanie projektu:	1.1.2016 / 31.12.2019
Evidenčné číslo projektu:	2/0152/16
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 3863 €

Dosiahnuté výsledky:

Dubecký, F., Kindl, D., Hubík, P., Mičušík, M., Boháček, P., Zaťko, B., Gombia, E., Kováč, J., and Nečas, V.: Role of contacts in metal/semi-insulating GaAs/metal structures: symmetrical geometry,

AIP Conf. Proc. 2131 (2019) 020010.

Zaťko, B., Hrubčín, L., Boháček, P., Osvald, J., Šagátová, A., Sekáčová, M., Kováčová, E., and Nečas, V.: Electrical properties of detector Schottky diodes based on 4H-SiC high quality epitaxial layer, AIP Conf. Proc. 2131 (2019) 020054.

Šagátová, A., Zaťko, B., and Nečas, V.: Influence of holder quality on radiation hardness of SI GaAs detector, AIP Conf. Proc. 2131 (2019) 020038.

Kubanda, D., Zaťko, B., Šagátová, A., Žemlička, J., Zápražný, Z., Boháček, P., Dudák, J., Kováčová, E., and Nečas, V.: Performance of bulk semi-insulating GaAs-based sensor and its comparison to Si-based sensor for Timepix radiation camera, J. Instrument. 14 (2019) C01023.

Programy: APVV

19.) Skyrmióny vo feromagnetických nanoobjektoch *(Skyrmions in ferromagnetic nanoobjects)*

Zodpovedný riešiteľ:	Vladimír Cambel
Trvanie projektu:	1.7.2017 / 31.12.2020
Evidenčné číslo projektu:	16-0068
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 35000 €

20.) Magnetické plášte z kompozitov supravodič/feromagnetikum *(Magnetic cloaks from superconductor/ferromagnet composites)*

Zodpovedný riešiteľ:	Fedor Gömöry
Trvanie projektu:	1.7.2017 / 28.2.2021
Evidenčné číslo projektu:	16-0418
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 79187 €

Dosiahnuté výsledky:

Solovyov, M. and Gömöry, F.: A–V formulation for numerical modelling of superconductor magnetization in true 3D geometry, Supercond. Sci Technol. 32 (2019) 115001.

Gömöry, F., Šouc, J., Adámek, M., Ghabeli, A., Solovyov, M., and Vojenčiak, M.: Impact of critical current fluctuations on the performance of a coated conductor tape, Supercond. Sci Technol. 32 (2019) 124001.

21.) 2D materiály iné ako grafén: monovrstvy, heteroštruktúry a hybridné vrstvy *(2D materials beyond graphene: monolayers, heterostructures and hybrids)*

Zodpovedný riešiteľ:	Martin Hulman
Trvanie projektu:	1.7.2016 / 31.12.2019
Evidenčné číslo projektu:	15-0693
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 33365 €

Dosiahnuté výsledky:

Sojková, M., Végso, K., Mrkývkova, N., Hagara, J., Hutár, P., Rosová, A., Čaplovičová, M., Ludacka, U., Skákalová, V., Majková, E., Šiffalovič, P., and Hulman, M.: Tuning the orientation of few-layer MoS2 films using one-zone sulfurization, RSC Adv. 9 (2019) 29645-29651.

Sojková, M., Šiffalovič, P., Babchenko, O., Vanko, G., Dobročka, E., Hagara, J., Mrkývková, N., Majková, E., Ižák, T., Kromka, A., and Hulman, M.: Carbide-free one-zone sulfurization method grows thin MoS2 layers on polycrystalline CVD diamond, Sci Rep. 9 (2019) 2001.

Hutár, P., Španková, M., Sojková, M., Dobročka, E., Végso, K., Hagara, J., Halahovets, Y., Majková, E., Šiffalovič, P., and Hulman, M.: Highly crystalline MoS_2 thin films fabricated by sulfurization, Phys. Status Solidi B 256 (2019) 1900342.

Hulman, M., Sojková, M., Végso, K., Mrkývkova, N., Hagara, J., Hutár, P., Kotrusz, P., Hudec, J., Tokar, K., Majková, E., and Šiffalovič, P.: Polarized Raman reveals alignment of few-layer MoS_2 films, J. Phys. Chem. C 123 (2019) 29468-29475.

Brndiarová, J., Šiffalovič, P., Hulman, M., Kalosi, A., Bodik, M., Skákalová, V., Micusik, M., Markovič, Z., Majková, E., and Fröhlich, K.: Functionalized graphene transistor for ultrasensitive detection of carbon quantum dots, J. Applied Phys. 126 (2019) 214303.

22.) Modifikácia YBCO tenkovrstvových štruktúr nízkoenergetickými elektrónmi pre supravodivú elektroniku *(Modification of YBCO thin film structures using low energy electron beam processing for superconducting electronics)*

Zodpovedný riešiteľ:	Štefan Chromik
Trvanie projektu:	1.7.2017 / 31.12.2020
Evidenčné číslo projektu:	16-0315
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 44000 €

Dosiahnuté výsledky:

Gál, N., Štrbík, V., Gaži, Š. Chromik, Š., and Talacko, M.: Resistance anomalies at superconducting transition in multilayer N/S/F/S/N heterostructures, J. Supercond. Novel Magnet. 32 (2019) 213-217.

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

Zodpovedný riešiteľ:	Pavol Kováč
Trvanie projektu:	1.7.2019 / 30.11.2021
Evidenčné číslo projektu:	18-0271
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 28143 €

Dosiahnuté výsledky:

Kováč, P., Bonura, M., Santra, S., Kopera, L., Rosová, A., Senatore, C., and Hušek, I.: Thermal conductivities and thermal runaways of superconducting MgB2 wires stabilized by an Al+Al2O3 sheath, Supercond. Sci Technol. 32 (2019) 115007.

Santra, S., Grovenor, C.R.M., Speller, S.C., Kováč, P., Kopera, L., and Hušek, I.: Comparison of interfacial and critical current behaviour of Al+Al2O3 sheathed MgB2 wires with Ta and Tidiffusion barriers, J. Alloys Comp. 807 (2019) 151665.

Kováč, P., Kopera, L., Kováč, J., Melišek, T., Haessler, W., Wang, D., and Ma, Y.: Current densities and strain tolerances of filamentary MgB2 wires made by an internal Mg diffusion process, Supercond. Sci Technol. 32 (2019) 095006.

Kováč, P., Hušek, I., Rosová, A., Melišek, T., Kováč, J., Kopera, L., Scheiter, J., and Haessler, W.: Strong no-barrier SS sheathed MgB2 composite wire, Physica C 560 (2019) 40-44.

24.) Polovodičové nanomembrány pre hybridné súčiastky *(Semiconductor nanomembranes for hybrid devices)*

Zodpovedný riešiteľ:	Róbert Kúdela
Trvanie projektu:	1.7.2016 / 31.12.2019
Evidenčné číslo projektu:	15-0243
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 49000 €

25.) GaN monolitické integrované obvody *(GaN Monolithic Integrated Circuits)*

Zodpovedný riešiteľ:	Ján Kuzmík
Trvanie projektu:	1.7.2016 / 30.6.2019
Evidenčné číslo projektu:	15-0673
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fakulta elektrotechniky a informatiky Slovenská technická univerzita v Bratislave
Počet spoluriešiteľských	0

inštitúcií:
Čerpané financie: APVV: 12500 €

26.) Tranzistory s InN-kanálom pre THz mikrovlny a logiku *(Transistors with InN channel for THz microwaves and logic)*

Zodpovedný riešiteľ: Ján Kuzmík
Trvanie projektu: 1.7.2016 / 30.6.2019
Evidenčné číslo projektu: 15-0031
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 29333 €

Dosiahnuté výsledky:

Gregušová, D., Tóth, L., Pohorelec, O., Hasenöhrl, S., Haščík, Š., Cora, I., Fogarassy, Z., Stoklas, R., Seifertová, A., Blaho, M., Laurenčíková, A., Oyobiki, T., Pécz, B., Hashizume, T., and Kuzmík, J.: InGaN/(GaN)/AlGaN/GaN normally-off metal-oxide-semiconductor high-electron mobility transistors with etched access region, Japan. J. Applied Phys. 58 (2019) SCCCD21.

Chauhan P., Hasenöhrl S., Dobročka E., Vančo Ľ., Stoklas R., Kováč J., Šiffalovič P., Kuzmík J.: Effect of temperature and carrier gas on the properties of thick InxAl1-xN layer, Applied Surface Sci 470 (2019) 1-7.

Hasenöhrl, S., Chauhan, P., Dobročka, E., Stoklas, R., Vančo, Ľ., Veselý, M., Bouazzaoui, F., Chauvat, M.-P., Reterana, P., and Kuzmík, J.: Generation of hole gas in non-inverted InAl(Ga)N/GaN heterostructures, Applied Physics Express 12 (2019) 014001.

Kučera, M., Adikimenakis, A., Dobročka, E., Kúdela, R., Ťapajna, M., Laurenčíková, A., Georgakilas, A., and Kuzmík, J.: Structural, electrical, and optical properties of annealed InN films grown on sapphire and silicon substrates, Thin Solid Films 672 (2019) 114-119.

Chauhan, P., Hasenöhrl, S., Dobročka, E., Chauvat, M.-P., Minj, A., Gucmann, F., Vančo, Ľ., Kováč, J.jr., Kret, S., Ruterana, P., Kuball, M., Šiffalovič, P., and Kuzmík, J.: Evidence of relationship between strain and In-incorporation: growth of N-polar In-rich InAlN buffer layer by OMCVD, J. Applied Phys. 125 (2019) 105304.

Ťapajna, M., Drobný, J., Gucmann, F., Hušeková, K., Gregušová, D., Hashizume, T., and Kuzmík, J.: Impact of oxide/barrier charge on threshold voltage instabilities in AlGaN/GaN metal-oxide-semiconductor heterostructures, Mater. Sci in Semicond Process. 91 (2019) 356-361. (Corrigendum in Mater. Sci in Semicond Process. 93 (2019) 381.

27.) 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

Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 36667 €

28.) Fotoluminescenčné keramické materiály na báze oxynitridov kremíka *(Silicon oxynitride-based photoluminiscent ceramic materials)*

Zodpovedný riešiteľ:	Zoltán Lenčéš
Zodpovedný riešiteľ v organizácii SAV:	Karol Fröhlich
Trvanie projektu:	1.7.2015 / 30.6.2019
Evidenčné číslo projektu:	14-0385
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav anorganickej chémie SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 6000 €

29.) Výskum technológie nanoobrábania pre aktívne povrchy novej generácie rtg optiky *(Research of the nanomachining technology for active surfaces of the new generation of the X-ray optics)*

Zodpovedný riešiteľ:	Eva Majková
Zodpovedný riešiteľ v organizácii SAV:	Zdenko Zápražný
Trvanie projektu:	1.7.2015 / 30.6.2019
Evidenčné číslo projektu:	14-0745
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 12500 €

Dosiahnuté výsledky:

Zápražný, Z., Korytár, D., Jergel, M., Halahovets, Y., Kotlár, M., Maťko, I., Hagara, J., Šiffalovič, P., Keckes, J., and Majková, E.: Characterization of the chips generated by the nanomachining of germanium for X-ray crystal optics, Inter. J. Adv. Manufactur. Technol. 102 (2019) 2757-2767.

Zápražný, Z., Korytár, D., Jergel, M., Halahovets, Y., Maťko, I., Šiffalovič, P., Kečkéš, J., Mikulík, P., Majková, E., and Thi, T.N.T.: Study of surface quality and subsurface damage of germanium optics produced by single point diamond nanomachining, Proc. SPIE 11032 (2019)11032E.

Nádaždy, P., Hagara, J., Jergel, M., Majková, E., Mikulík, P., Zápražný, Z., Korytár, D., and Šiffalovič, P.: Exploiting the potential of beam-compressing channel-cut monochromators for laboratory high-resolution small-angle X-ray scattering experiments, J. Applied Crystall. 52 (2019) 498-506.

Kubanda, D., Zaťko, B., Šagátová, A., Žemlička, J., Zápražný, Z., Boháček, P., Dudák, J., Kováčová, E., and Nečas, V.: Performance of bulk semi-insulating GaAs-based sensor and its comparison to Si-based sensor for Timepix radiation camera, J. Instrument. 14 (2019) C01023.

30.) 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
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 6264 €

Dosiahnuté výsledky:

Sojková, M., Végso, K., Mrkývkova, N., Hagara, J., Hutár, P., Rosová, A., Čaplovičová, M., Ludacka, U., Skákalová, V., Majková, E., Šiffalovič, P., and Hulman, M.: Tuning the orientation of few-layer MoS2 films using one-zone sulfurization, RSC Adv. 9 (2019) 29645-29651.

Sojková, M., Šiffalovič, P., Babchenko, O., Vanko, G., Dobročka, E., Hagara, J., Mrkývková, N., Majková, E., Ižák, T., Kromka, A., and Hulman, M.: Carbide-free one-zone sulfurization method grows thin MoS2 layers on polycrystalline CVD diamond, Sci Rep. 9 (2019) 2001.

Hutár, P., **Španková**, M., Sojková, M., Dobročka, E., Végso, K., Hagara, J., Halahovets, Y., Majková, E., Šiffalovič, P., and Hulman, M.: Highly crystalline MoS_2 thin films fabricated by sulfurization, Phys. Status Solidi B 256 (2019) 1900342.

Hulman, M., Sojková, M., Végso, K., Mrkývkova, N., Hagara, J., Hutár, P., Kotrusz, P., Hudec, J., Tokar, K., Majková, E., and Šiffalovič, P.: Polarized Raman reveals alignment of few-layer MoS_2 films, J. Phys. Chem. C 123 (2019) 29468-29475.

31.) Fotonické nanoštruktúry pripravené laserovou 3D litografiou pre biosenzory *(Photonic nanostructures prepared by 3D laser lithography for biosensing)*

Zodpovedný riešiteľ:	Jozef Novák
Trvanie projektu:	1.7.2017 / 31.12.2020
Evidenčné číslo projektu:	16-0129
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Žilinská univerzita
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 24087 €

Dosiahnuté výsledky:

Eliáš, P. and Haščík, Š.: Fabrication of nanocones by RIE on GaP, J. Phys.: Conf. Ser. 1319 (2019) 012017.

32.) Pokročilé materiály a štruktúry pre perspektívne aplikácie v elektrotechnike, elektronike a iných oblastiach na báze feritov s rozmermi častíc v oblasti mikrometrov a nanometrov *(Advanced materials and smart structures for progressive applications in electrical engineering, electronics and other fields based on micro- and nano-sized ferrite particles)*

Zodpovedný riešiteľ:	Mykola Soloviov
Trvanie projektu:	1.7.2016 / 30.6.2020
Evidenčné číslo projektu:	15-0257
Organizácia je koordinátorom projektu:	nie
Koordinátor:	FEI STU
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 7500 €

Dosiahnuté výsledky:

Solovyov, M. and Gömöry, F.: A–V formulation for numerical modelling of superconductor magnetization in true 3D geometry, Supercond. Sci Technol. 32 (2019) 115001.

Dilna, N., Fečkan, M., Solovyov, M., and Wang, J.R.: Symmetric nonlinear functional differential equations at resonance, Electron. J. Qual. Theory Differ. Equ. (2019) Iss. 76, 1-16.

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
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 15184 €

Dosiahnuté výsledky:

Sojková, M., Végso, K., Mrkývkova, N., Hagara, J., Hutár, P., Rosová, A., Čaplovičová, M., Ludacka, U., Skákalová, V., Majková, E., Šiffalovič, P., and Hulman, M.: Tuning the orientation of few-layer MoS_2 films using one-zone sulfurization, RSC Adv. 9 (2019) 29645-29651.

Hutár, P., Španková, M., Sojková, M., Dobročka, E., Végso, K., Hagara, J., Halahovets, Y., Majková, E., Šiffalovič, P., and Hulman, M.: Highly crystalline MoS_2 thin films fabricated by sulfurization, Phys. Status Solidi B 256 (2019) 1900342.

Hulman, M., Sojková, M., Végso, K., Mrkývkova, N., Hagara, J., Hutár, P., Kotrusz, P., Hudec, J., Tokar, K., Majková, E., and Šiffalovič, P.: Polarized Raman reveals alignment of few-layer MoS_2 films, J. Phys. Chem. C 123 (2019) 29468-29475.

34.) 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: 8785 €

35.) 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 koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 16621 €

Programy: Štrukturálne fondy EÚ Výskum a inovácie

36.) 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
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ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

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ADNA02 HARMATHA, L. - MIKOLÁŠEK, M. - STUCHLÍKOVÁ, Ľ. - KÓSA, A. - ŽIŠKA, Milan - HRUBČÍN, Ladislav - SKURATOV, V.A. Electrically active defects in solar cells based on amorphous silicon/crystalline silicon heterojunction after irradiation by heavy Xe ions. In Journal of Electrical Engineering, 2015, vol. 66, p. 323-328. (2014: 0.378 - IF, Q4 - JCR, 0.234 - SJR, Q3 - SJR). (2015 - INSPEC, SCOPUS, WOS). ISSN 1335-3632.

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2. [1.2] ŠÁLY, Vladimír - PACKA, Juraj - PERNÝ, Milan. Present state of solar cell technology. In EEA Electrotehnica, Electronica, Automatica. ISSN 15825175, 2018-07-01, 66, 3, pp. 9-14., Registrované v: SCOPUS

ADNA03 HURAN, Jozef - VALOVIČ, Albín - KUČERA, Michal - KLEINOVÁ, Angela - KOVÁČOVÁ, Eva - BOHÁČEK, Pavol - SEKÁČOVÁ, Mária. Hydrogenated amorphous silicon carbon nitride films prepared by PECVD technology: properties. In Journal of Electrical Engineering, 2012, vol. 65, p. 333-335. (2011: 0.370 - IF, 0.151 - SJR). (2012 - INSPEC, SCOPUS). ISSN 1335-3632.

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1. [1.1] FAINER, N.I. - PLEKHANOV, A.G. - MAKSIMOVSKY, E.A. - RUMYANTSEV, Y.M. Synthesis of Hydrogenated Silicon Oxycarbonitride from a Gas Mixture of Methyltris(Diethylamino)Silane, Nitrogen, and Oxygen. In GLASS PHYSICS AND CHEMISTRY. NOV 2018, vol. 44, no. 6, p. 607-615., Registrované v: WOS

2. [1.1] HE, W.Q. - CHEN, L.X. - XU, T.T. - PENG, F. Borazine-type single source precursor with vinyl to SiBCN ceramic. In JOURNAL OF THE CERAMIC SOCIETY OF JAPAN. APR 2018, vol. 126, no. 4, p. 253-259., Registrované v: WOS

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4. [1.1] KHATAMI, Z. - WILSON, P.R.J. - WOJCIK, J. - MASCHER, P. On the origin of white light emission from nanostructured silicon carbonitride thin films. In JOURNAL OF LUMINESCENCE. APR 2018, vol. 196, p. 504-510., Registrované v: WOS

ADNA04 PERNÝ, M. - ŠÁLY, V. - VÁRY, M. - MIKOLÁŠEK, M. - HURAN, Jozef - PACKA, J. AC impedance spectroscopy of Al/a-SiC/c-Si(p)/Al heterostructure under illumination. In Journal of Electrical Engineering, 2014, vol. 65, p. 174-178. (2013: 0.420 - IF, 0.187 - SJR). (2014 - INSPEC, WOS, SCOPUS). ISSN 1335-3632.

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v: WOS

***AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách**

AEC01 ČIČO, Karol - KUZMÍK, Ján - GREGUŠOVÁ, Dagmar - LALINSKÝ, Tibor - GEORGAKILAS, A. - POGANY, D. - FRÖHLICH, Karol. Rapid thermal annealing and performance of Al2O3/GaN metal-oxide-semiconductor structures. In ASDAM 2006 : proceedings of the 6th International Conference on Advanced Semiconductor Devices and Microsystems. - Piscataway : IEEE, 2006, p. 197-200. ISBN 1-4244-0396-0.

Citácie:

1. [1.1] KIM, H.D. - KIM, S. - YUN, M.J. Self-rectifying resistive switching behavior observed in Al2O3-based resistive switching memory devices with p-AlGaN semiconductor bottom electrode. In JOURNAL OF ALLOYS AND COMPOUNDS. APR 25 2018, vol. 742, p. 822-827., Registrované v: WOS

AEC02 PELFER, P.G. - DUBECKÝ, František - FORNARI, R. - PIKNA, M. - GOMBIA, E. - ZAŤKO, Bohumír - DARMO, Juraj - KREMPASKÝ, Marián - SEKÁČOVÁ, Mária. Semi-insulating InP detectors for solar neutrino experiment. In ASDAM 2000 : 3rd International EuroConference on Advanced Semiconductor Devices and Microsystems. Eds.: Jozef Osvald, Štefan Haščík, Ján Kuzmík, J. Breza. - Piscataway : IEEE, 2000, p. 99-104. ISBN 0-7803-5939-9.

Citácie:

1. [1.1] LIOLIOU, G. - KRYSA, A.B. - BARNETT, A.M. Energy response characterization of InGaP X-ray detectors. In JOURNAL OF APPLIED PHYSICS. NOV 21 2018, vol. 124, no. 19., Registrované v: WOS

AEC03 STUCHLÍKOVÁ, Ľ. - ŠEBOK, J. - RYBÁR, J. - PETRUS, M. - NEMEC, M. - HARMATHA, L. - BENKOVSKÁ, J. - KOVÁČ, Ján - ŠKRINIAROVÁ, J. - LALINSKÝ, Tibor - PASKIEWICZ, R. - TLACZALA, M. Investigation of deep energy levels in heterostructures based on GaN by DLTS. In ASDAM 2010 : proceedings of the 8th International Conference on Advanced Semiconductor Devices and Microsystems. Eds. J. Breza, D. Donoval and E. Vavrinský. - Piscataway : IEEE, 2010, p. 135-138. ISBN 978-1-4244-8572-7.

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1. [1.1] DE SANTI, C. - MENEGHINI, M. - MENEGHESSO, G. - ZANONI, E. Review of dynamic effects and reliability of depletion and enhancement GaN HEMTs for power switching applications. In IET POWER ELECTRONICS. APR 10 2018, vol. 11, no. 4, SI, p. 668-674., Registrované v: WOS

2. [1.1] JABBARI, I. - BAIRA, M. - MAAREF, H. - MGHAIETH, R. C-DLTS interface defects in Al0.22Ga0.78N/GaN HEMTs on SiC: Spatial location of E2 traps. In PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES. OCT 2018, vol. 104, p. 216-222., Registrované v: WOS

AEC04 VANKO, Gabriel - LALINSKÝ, Tibor - TOMÁŠKA, M. - HAŠČÍK, Štefan - MOZOLOVÁ, Želmíra - ŠKRINIAROVÁ, J. - KOSTIČ, Ivan - VINCZE, A. - UHEREK, F. Impact of SF6 plasma on DC and microwave performance of AlGaN/GaN HEMT structures. In ASDAM 2008 : conference proceedings. Editors Štefan Haščík, Jozef Osvald. - Piscataway, NJ : Institute of Electrical and Electronics Engineers, 2008, p. 335-338. ISBN 978-1-4244-2325-5.

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1. [3.1] ANDRIANOV, N.A - BLINOV, N.E. - GAVRILOV, A.S. - SMIRNOV, A.S. - SOMOV, P.A. - MUSIKHIN, S.F. - KOKIN, S.V. - KRASOVITSKYI, D.M. Study of SF6 plasma treatment of GaN-HEMT structures. In Uspechi prikladnoj fiziki. 2017, vol. 5, no. 4, pp. 335-340. ISSN 2307-4469

***AEE Vedecké práce v zahraničných nerecenzovaných vedeckých zborníkoch, monografiách**

AEE01 ELIÁŠ, Peter - KOSTIČ, Ivan - HASENÖHRL, Stanislav. Polar diagram of wet-etched (100) InP. In 14th Indium Phosphide and Related Materials Conference : proceedings. - Piscataway : IEEE, 2002, p. 229. ISBN 1092-8669.

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1. [1.1] CALABRETTA, N. - COOMAN, I. A. - STABILE, R. Low-to-high refractive index contrast transition (RICT) device for low loss polymer-based optical coupling. In JOURNAL OF OPTICS. ISSN 2040-8978, 2018, vol. 20, no. 4, pp., Registrované v: WOS

AFC Publikované príspevky na zahraničných vedeckých konferenciách

AFC01 MITRÓOVÁ, Zuzana - TOMAŠOVIČOVÁ, Natália - LANCZ, Gábor - KOVÁČ, Jozef - VÁVRA, Ivo - KOPČANSKÝ, Peter. Preparation and characterization of carbon nanotubes functionalized by magnetite nanoparticles. In NANOCON 2010: 2nd international conference, October 12th - 14th 2010, Olomouc, Czech Republic : conference proceedings. - Ostrava : TANGER Ltd., 2010, p. 388-392. ISBN 978-80-87294-19-2.(NANOCON 2010 : International Conference).

Citácie:
1. [1.1] KHAN, J. - ILYAS, S. - AKRAM, B. - AHMAD, K. - HAFEEZ, M. - SIDDIQ, M. - ASHRAF, M.A. Zno/NiO coated multi-walled carbon nanotubes for textile dyes degradation. In ARABIAN JOURNAL OF CHEMISTRY. SEP 2018, vol. 11, no. 6, SI, p. 880-896., Registrované v: WOS

AFC02 OSVALD, Jozef. Influence of interface deep traps on capacitance of AlGaN/GaN heterojunctions. In Physics of Semiconductor Devices : 17th International Workshop on the Physics of Semiconductor Devices 2013. Eds. V.K. Jain, A.R.Verma. - Heidelberg : Springer, 2014, p. 215-217. ISBN 978-3-319-03002-9.

Citácie:
1. [1.1] VERMA, S. - LOAN, S.A. - ALAMOUD, A.M. Design and simulation of a doping-less charge plasma based enhancement mode GaN MOSFET. In JOURNAL OF COMPUTATIONAL ELECTRONICS. MAR 2018, vol. 17, no. 1, p. 256-264., Registrované v: WOS
2. [1.1] VERMA, S. - LOAN, S.A. - ALHARBI, A.G. Polarization engineered enhancement mode GaN HEMT: Design and investigation. In SUPERLATTICES AND MICROSTRUCTURES. JUL 2018, vol. 119, p. 181-193., Registrované v: WOS

AFC03 REGGIANI, S. - GNANI, E. - RUDAN, M. - BACCARANI, G. - BYCHIKHIN, S. - KUZMÍK, Ján - POGANY, D. - GORNIK, E. - DENISON, M. - JENSEN, N. - GROOS, G. - STECHER, M. Predictive device simulation for ESD protection structures validated with transient interferometric thermal - mapping experiments. In Proceedings of the ESSDERC '2005. Ed. G. Ghibaudo. - Piscataway : IEEE, 2005, p. 411-414. ISBN 7803-9203-5.

Citácie:
1. [1.1] HOLLAND, S. - BRENNER, R. Voltage oscillations during surge pulses induced by self-extinguishing non-destructive second breakdown in pn-junction diodes. In MICROELECTRONICS RELIABILITY. SEP 2018, vol. 88-90, SI, p. 208-213., Registrované v: WOS

AFC04 ŤAPAJNA, Milan - VÁLIK, Lukáš - KOTARA, P. - ZHYTNYTSKA, R. - BRUNNER, F. - HILT, O. - BAHAT-TREIDEL, E. - WÜRFL, H.-J. - KUZMÍK, Ján. Impact of the buffer structure on trapping characteristics of normally-off p-GaN/AlGaN/GaN HEMTs for power switching applications. In ASDAM 2014 : The 10th International Conference on Advanced Semiconductor Devices and Microsystems. Eds. J. Breza, D. Donoval, and E. Vavrinsky. - IEEE, 2014, p. 121-124. ISBN 978-1-4799-5474-2.

Citácie:
1. [1.2] BISI, Davide - ROSSETTO, Isabella - MENEGHINI, Matteo - MENEGHESSO, Gaudenzio - ZANONI, Enrico. Reliability in III-nitride devices. In Handbook of GaN Semiconductor Materials and Devices, 2017-01-01, pp. 367-430., Registrované v: SCOPUS

AFK Postery zo zahraničných konferencií

AFK01 PICHONAT, E. - KUZMÍK, Ján - BYCHIKHIN, S. - POGANY, D. - POISSON, M.A. - GRIMBERT, B. - GAQUIèRE, C. Temperature analysis of AlGaN/GaN high-electron-mobility transistors using micro-Raman scattering spectroscopy and transient interferometric

mapping. In 2006 European Microwave Integrated Circuits Conference.

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1. [1.1] CHERVONNI, B. - AKTUSHEV, O. - OJALVO, E. - KNAFO, Y. - TURKULETS, Y. - SHALISH, I. Fast estimation of channel temperature in GaN high electron mobility transistor under RF operating conditions. In SEMICONDUCTOR SCIENCE AND TECHNOLOGY. SEP 2018, vol. 33, no. 9., Registrované v: WOS

GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup

GHG01 HURAN, Jozef - BOHÁČEK, Pavol - SHVETSOV, V.N. - KOBZEV, A.P. - KLEINOVÁ, Angela - SASINKOVÁ, Vlasta - BALALYKIN, Nikolay I. - SEKÁČOVÁ, Mária - ARBET, Juraj. Amorphous silicon carbide thin films deposited by plasma enhanced chemical vapor deposition at different temperature for hard environment applications. In 21st International Symposium on Plasma Chemistry : Cairns (Australia) 2013 [elektronický zdroj], http://www.ispc-conference.org/ispcproc/ispc21/ID180.pdf.

Citácie:

1. [1.1] MARVI, Z. - XU, S. - FOROUTAN, G. - OSTRIKOV, K. - LEVCHENKO, I. Plasma-deposited hydrogenated amorphous silicon films: multiscale modelling reveals key processes. In RSC ADVANCES. 2017, vol. 7, no. 31, p. 19189-19196., Registrované v: WOS

2. [1.1] VAN LAAR, J.H. - BISSETT, H. - BARRY, J.C. - VAN DER WALT, I.J. - CROUSE, P.L. Deposition of SiC/Si coatings in a microwave plasma-assisted spouted bed reactor. In JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. APR 2018, vol. 38, no. 4, p. 1197-1209., Registrované v: WOS

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Ing. Ján Fedor, PhD
Názov semestr. predmetu: Introduction to Scanning probe microscopy
Počet hodín za semester: 10
Názov katedry a vysokej školy: Drexel University, Philadelphia, USA, Department of Physica

Ing. Milan Ťapajna, PhD.
Názov semestr. predmetu: Mikroelektronika a fotonika
Počet hodín za semester: 3
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav elektroniky a fotoniky

Semestrálne cvičenia:

Ing. Michal Blaho, PhD.
Názov semestr. predmetu: Fyzika pevných látok
Počet hodín za semester: 10
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra experimentálnej fyziky

Ing. Ján Fedor, PhD
Názov semestr. predmetu: Vacuum technique
Počet hodín za semester: 10
Názov katedry a vysokej školy: Drexel University, Philadelphia, USA, Department of Physica

RNDr. Dagmar Gregušová, DrSc.
Názov semestr. predmetu: Fyzika pevných látok
Počet hodín za semester: 10
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra experimentálnej fyziky

Terénne cvičenia:

Ing. Lubomír Frolek
Názov semestr. predmetu: Elektromagnetické 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 systémy
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav elektrotechniky

Ing. Ján Šouc, CSc.
Názov semestr. predmetu: Elektromagnetické systémy

Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav elektrotechniky

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

Individuálne prednášky:

doc. Ing. Fedor Gömöry, DrSc.
Názov semestr. predmetu: Elektromagnetické prvky a systémy
Počet hodín za semester: 6
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav elektrotechniky

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**
Belgicko					Karol Fröhlich	2
					Fedor Gömöry	4
					Fedor Gömöry	2
					Peter Šichman	6
Česko	František Dubecký	4			Ján Fedor	1
					Štefan Haščík	1
					Peter Hutár	1
					Marián Precner	1
					Ján Šoltýs	1
					Bohumír Zaťko	1
Francúzsko					Peter Hutár	26
					Marek Mošať	3
					Michal Mruczkiewicz	6
					Enric Pardo	1
					Michal Vojenčiak	3
					Michal Vojenčiak	3
Holandsko					Anang Dadhich	3
					Milan Kapolka	3
					Shuo Li	3
					Enric Pardo	3
Izrael	Štefan Chromik	10				
Kanada					Marek Mošať	26
Maďarsko					Fedor Gömöry	3
					Rastislav	6

					Ries	
					Eugen Seiler	6
Nemecko					Anang Dadhich	3
					Karol Fröhlich	2
					Asef Ghabeli Juybari	3
					Fedor Gömöry	4
					Pavol Kováč	3
					Tomáš Kujovič	4
					Marek Mošať	4
					Enric Pardo	3
					Alica Rosová	10
					Michal Vojenčiak	4
Poľsko	Štefan Chromik	5			Michal Mruczkiewicz	10
	Marianna Španková	5			Michal Mruczkiewicz	19
					Michal Mruczkiewicz	11
Rakúsko					Juraj Feilhauer	1
					Pavol Kováč	1
					Ján Kuzmík	1
Rusko					Ján Šoltýs	6
					Iuliia Vetrova	6
					Iuliia Vetrova	5
					Bohumír Zaťko	20
Španielsko					Michal Mruczkiewicz	90
Švajčiarsko					Fedor Gömöry	3
					Tomáš Kujovič	3
					Ján Kuzmík	4
					Edita Mikulášová	3

					Marek Mošať	3
					Marek Mošať	3
					Michal Mruczkiewicz	17
					Ján Šoltýs	4
					Jaroslav Tóbik	4
					Michal Vojenčiak	3
					Michal Vojenčiak	3
Taiwan					Gabriel Vanko	8
					Gabriel Vanko	10
Taliansko					Fedor Gömöry	12
					Fedor Gömöry	3
					Fedor Gömöry	12
					Mykola Soloviov	3
USA					Ján Fedor	20
					Ján Fedor	25
					Marián Precner	25
					Marián Precner	21
Veľká Británia					Milan Ťapajna	4
Počet vyslaní spolu	**4**	**24**			**67**	**518**

(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**
Čína	Zon S.	16				
Francúzsko					Delage S.	2
Chorvátsko					Kajic A.	60
Japonsko					Kitaguchi H.	1
					Nishijima G.	1
Nemecko					Utschick C.	5
Poľsko	Camargo B.	5				
	Gierlowski P.	5				

Španielsko					Sanchez A.	2
USA					Fabian J.	2
Veľká Británia					Wang Y.	14
					Weng F.	14
Počet prijatí spolu	**3**	**26**			**9**	**101**

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Česko	ESM 2019	Tomáš Ščepka	12
		Iuliia Vetrova	12
	EUVXR	Zdenko Zápražný	4
	NANOCON 2019	Milan Ťapajna	3
	Struktura 2019	Edmund Dobročka	4
Fínsko	Graphene Week	Martin Hulman	6
		Michaela Sojková	6
		Milan Ťapajna	6
Francúzsko	E-MRS	Karol Fröhlich	6
	WOCSDICE	Fridrich Egyenes-Pörsök	6
Grécko	iWORID 2019	Bohumír Zaťko	5
	MNE 2019	Ján Šoltýs	4
Japonsko	ISP	Ján Kuzmík	8
	MRM 2019	Ján Kuzmík	8
Kanada	MT26	Fedor Gömöry	8
Litva	EW-MOVPE	Jozef Novák	6
Poľsko	CHATS 2019	Mykola Soloviov	4
Portugalsko	ANM 2019	Michaela Sojková	3
Rakúsko	ESDWOIEBL 2019	Michal Blaho	1
		Fridrich Egyenes-Pörsök	1
		Ján Šoltýs	1
		Iuliia Vetrova	1
	IWEPN 2019	Jana Brndiarová	8
		Martin Hulman	8
		Peter Hutár	8
		Marián Precner	8
		Michaela Sojková	8
Španielsko	MAGNETOFON	Iuliia Vetrova	5
	Sol-SkyMag	Konstantin Bublikov	10
Švédsko	JEMS 2019	Juraj Feilhauer	7
		Tomáš Ščepka	5
		Jaroslav Tóbik	7
Taliansko	SURFINT-SREN VI	Edmund Dobročka	6
		František Dubecký	6
		Peter Eliáš	6
		Dagmar Gregušová	6
		Štefan Chromik	6
		Edita Mikulášová	6
		Jozef Novák	6
		Jozef Osvald	6
		Ondrej Pohorelec	6

		Roman Stoklas	6
		Tomáš Ščepka	6
		Ján Šoltýs	6
		Marianna Španková	6
		Bohumír Zaťko	6
Ukrajina	NAP 2019	Vladimír Cambel	4
USA	ECS Meeting	Karol Fröhlich	7
Veľká Británia	EUCAS 2019	Anang Dadhich	6
		Asef Ghabeli Juybari	6
		Fedor Gömöry	6
		Milan Kapolka	6
		Ján Kováč	6
		Pavol Kováč	6
		Tomáš Kujovič	6
		Shuo Li	6
		Edita Mikulášová	6
		Marek Mošať	6
		Enric Pardo	6
		Rastislav Ries	6
		Eugen Seiler	6
		Michal Vojenčiak	6
	LightMAT 2019	Pavol Kováč	5
Spolu	**25**	**63**	**373**

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

Skratky použité v tabuľke C:

ANM 2019 - 17th International conference on Advanced Nanomaterials
CHATS 2019 - CHATS on Applied Superconductivity 2019
E-MRS - 2019 Spring Meeting of the European Materials Research Society
ECS Meeting - 236th Electrochemical Society Meeting
ESDWOIEBL 2019 - 2nd European Symposium on Direct Write, Optical, Ion and Electron beam Lithography
ESM 2019 - European School on Magnetism 2019
EUCAS 2019 - European Conference on Applied Superconductivity
EUVXR - EUV and X-ray Optics: Synergy between Laboratory and Space
EW-MOVPE - 18th European Workshop on Metal-Organic Vapour Phase Epitaxy
Graphene Week - 14th Graphene Week
ISP - ISPlasma/IC-PLANTS
IWEPN 2019 - International Winterschool on Electronic Properties of Novel Materials
iWORID 2019 - 21th International Workshop on Radiation Imaging Detectors
JEMS 2019 - Joint European Magnetic Symposia
JEMS 2019 - Joint European Magnetic Symposia
LightMAT 2019 - 3rd International Conference on Light Materials – Science and Technology
MAGNETOFON - 1st Summer School MAGNETOFON
MNE 2019 - 45th International Conference on Micro & Nano Engineering
MRM 2019 - Materials Research Meeting 2019
MT26 - 26th International Conference on Magnet Technology
NANOCON 2019 - 11th International Conference on Nanomaterials - Research & Application
NAP 2019 - 9th International Conference on Nanomaterials: Applications & Properties '2019
Sol-SkyMag - 4th International Conference Solitons and Skyrmion Magnetism
Struktura 2019 - Kolokvium Struktura 2019
SURFINT-SREN VI - 6th international conference "Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News"
WOCSDICE - Workshop on Compound Semiconductor Devices and Integrated Circuits 2019

Príloha F

Vedecko-popularizačná činnosť pracovníkov organizácie SAV

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Mgr. Jana Brndiarová, PhD.		IN	Čo je grafén a ako ho vedci našlli pomocou izolepy	SME-tech	18.4.2019
Mgr. Jana Brndiarová, PhD.		PB	Science Slam	Novej Cvernovky v Bratislave	27.2.2019
RNDr. Vladimír Cambel, DrSc.	M. Blaho, L. Frolek, D. Gregušová, M. Kapolka, M. Mošať, R. Ries, E. Seiler, M. Ťapajna, O. Pohorelec	PB	Víkend so SAV	Bratislava	21.6.2019
Mgr. Juraj Feilhauer, PhD.		iné	Turnaj mladých fyzikov	Iuventa, Bratislava	2.4.2019
Ing. Lubomír Frolek	T. Kujovič, M. Mošať, R. Ries,	iné	Mini Maker Faire	Stará tržnica, Bratislava	15.11.2019
doc. Ing. Fedor Gömöry, DrSc.		TV	gen.sk	RTVS	24.1.2019
doc. Ing. Fedor Gömöry, DrSc.	M. Soloviov	iné	Skús pokus – súťaž pe žiakov základných škôl	Bratislava	4.11.2019
Ing. Pavol Kováč, DrSc.		IN	Slovenskí vedci sa zviditeľnili, vyvinuli najľahší supravodivý kábel na svete	Webnoviny	27.7.2019
Ing. Pavol Kováč, DrSc.		TL	Slovenskí vedci vyvinuli najľahší supravodivý kábel na svete	Pravda	31.7.2019
Ing. Pavol Kováč, DrSc.		IN	Slovenským vedcom sa podarilo vyvinúť technológiu pre produkciu doposiaľ najľahšieho supravodivého kábla na svete	Veda na dosah - CVTI SR	29.7.2019
Ing. Pavol Kováč, DrSc.	M. Balog	TL	Ultraľahký supravodivý drôt	Quark roč. XXV, č. 7, s. 16-17	1.7.2019

Ing. Ivan Kundrata		TL	Ako piecť elektroniku	Quark	1.9.2019
Ing. Ján Kuzmík, DrSc.		TL	Nový výkonový vertikálny GaN tranzistor	Prešporský podnikateľ	4.4.2019
Mgr. Enric Pardo, PhD.		TV	Vedci SAV vyvinuli najľahší supravodivý kábel	Ranné správy RTVS	31.7.2019
Mgr. Enric Pardo, PhD.	Ľ. Kopera	RO	Naši vedci vynašli najľahší supravodivý kábel	Rádio Slovensko	30.7.2019
Ing. Tomáš Ščepka, PhD.		PB	Roadshow mladých vedcov	Senec, Bratislava	15.10.2019
Ing. Tomáš Ščepka, PhD.		TL	Skyrmióny – nosiče informácií	Quark 05/2019	1.5.2019
Ing. Ján Šoltýs, PhD		iné	Učiteľ Slovenska 2019	Vzdelávacie centrum Zaježová	4.9.2019
RNDr. Marianna Španková, PhD	Blaho, Búran, Dobročka, Eliáš, Erbenová, Frolek, Gál, Gelušiaková, Gerboc, Gregušová, Gucmann, Hasenöhrl, Hutár, Chromik, Kapolka, Koscelanská, Kováčová, Kujovič, Melišek, Mošať, Pohorelec, Precner, Príbusová Slušná, Ries, Rosová, Seiler, Sojková, Stoklas, Ščepka, Šichman, Šoltýs, Štrbik, Talacko, Ťapajna, Vanko, Vrbovský	EX	Deň otvorených dverí	EIÚ SAV	5.11.2019
RNDr. Marianna Španková, PhD	D. Gregušová, M. Blaho, F. Egyenes-Porsok, L. Frolek, F. Gucmann, P. Hutár, M. Kapolka, M. Mošať, M. Precner, R.	iné	Európska noc výskumníkov 2019	Bratislava, Stará tržnica	27.9.2019

	Ries, E. Seiler, R. Stoklas, P. Šichman				
Ing. Milan Ťapajna, PhD.		PB	GaN technológie pre 5G mobilné siete	Technologický festival IXPO	28.4.2019
Ing. Jaroslav Tóbik, PhD.		iné	Turnaj mladých fyzikov	Iuventa, Bratislava	2.4.2019
Mgr. Enric Pardo, PhD.		iné	Superheroes 4 science (https://superheroes4science.eu/) "Supravodivé elektromotory"	Science Fair (Veletrh vědy) Prague, Czech Republic, June 6–8, 2019 Art & Science Ostrava, Czech Republic 5th September, 2019 Science Fair (Vedecký ve	5

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