

Elektrotechnický ústav SAV



**Správa o činnosti organizácie SAV
za rok 2018**

Bratislava
január 2019

Obsah osnovy Správy o činnosti organizácie SAV za rok 2018

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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.

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Názvy a adresy detašovaných pracovísk:

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

Vedúci detašovaných pracovísk:

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

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
		M	Ž	M	Ž			
Celkový počet zamestnancov	116	85	31	25	6	109	87.83	60.46
Vedeckí pracovníci	53	47	6	8	0	47	43.45	42.45
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹)	29	20	9	13	6	28	13.34	13.34
Odborní pracovníci VŠ (ostatní zamestnanci ²)	8	4	4	1	0	8	6.99	0
Odborní pracovníci ÚS	19	11	8	3	0	19	17.82	4.67
Ostatní pracovníci	7	3	4	0	0	7	6.23	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 31.12.2018 (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 31.12.2018 (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

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2018)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	9	36	0	4	10	24	13
Ženy	1	5	0	0	1	4	1

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
Muži	13	10	4	7	2	3	3	12	10
Ženy	4	1	1	0	1	1	4	3	0

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2018

	Kmeňoví zamestnanci		Vedeckí pracovníci		Riešitelia projektov	
	A	B	A	B	A	B
Muži	48.0	48.8	50.8	48.9	46.5	48.5
Ženy	51.3	54.4	49.7	49.3	46.6	52.6
Spolu	48.9	50.3	50.7	49.0	46.5	49.2

A - Prepočet bez zohľadnenia úväzkov zamestnancov

B - Prepočet so zohľadnením úväzkov zamestnancov

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 2018

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	14	3	124652	124652	-	-	17006	-
2. Projekty APVV	11	7	-	-	696815	488466	25000	74710
3. Projekty OP ŠF	0	0	-	-	-	-	-	-
4. Projekty SASPRO	4	0	168574	168574	-	-	-	-
5. Projekty centier excelentnosti SAV	0	0	-	-	-	-	-	-
6. 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 2018

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2018	-	8	1
2. Projekty výziev OP ŠF podané r. 2018	Bratislava		
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2018

Tabuľka 2c Medzinárodné projekty riešené v roku 2018

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	5	-	-	-	-	-	135269
2. Projekty ERA.NET, ESA, JRP	0	1	-	-	-	-	-	-
3. Projekty COST	0	3	-	-	-	-	-	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	1	0	-	-	11074	11074	-	-
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 (SAV, APVV a iné)	1	8	18750	18750	-	-	42058	34454
9. Iné projekty	0	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont 2020 podané v roku 2018

Tabuľka 2d Počet projektov Horizont 2020 v roku 2018

	A	B
Počet podaných projektov Horizont 2020		1

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

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

2.2.3. Zámery na čerpanie 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: Vývin metastabilných defektov a ich dopad na elektronické vlastnosti MoS₂

Riešitelia: M. Precner

Projekt, v rámci ktorého sa dosiahli výsledky: VEGA 2/0178/15

V práci bol študovaný vplyv defektov na štrukturálne a elektronické vlastnosti jednej a viac MoS₂ vrstiev. Formovanie a vývoj defektov bol sledovaný v ultra-vysokom vákuu žihaním materiálu a elektrónovým ožarovaním. V prvom prípade bolo pozorované tvarovanie nestabilných domén s rozdielnou hodnotou výstupnej práce, čo bolo spôsobené vývojom kryštalických defektov formovaných počas žihania. Experimenty ukázali vytvorenie sírových vakancií a ich následnú difúziu, zlučovanie a migráciu, čo malo za následok prechod MoS₂ z nestabilného stavu do rovnovážneho základného stavu. Tento proces môže byť aktivovaný tepelne alebo elektrónovým ožarovaním s minimálnou energiou 0,6 eV, ktorá je potrebná pre migráciu sírových vakancií. V blízkosti hraníc zŕn a okrajov MoS₂ vrstiev sme pozorovali ovplyvňovanie výstupnej práce a lokálnej hustoty obsadených stavov aj pri rovnovážnych podmienkach. Výsledky práce ukázali odhadovaný teplotný rozsah pre výrobu elektronických súčiastok na báze MoS₂, kde bude hrať dôležitú úlohu pasivácia vrstvy a kontrola defektov.

Výstupy:

PRECNER, Marián - POLAKOVIČ, T. - QIAO, Q. - TRAINER, D. - PUTILOV, A.V. - DI GIORGIO, C. - CONE, I. - ZHU, Y. - XI, X.X. - IAVARONE, M. - KARAPETROV, Goran. Evolution of metastable defects and its effect on the electronic properties of MoS₂ films. In Scientific Reports, 2018, vol. 8, no. 6724. (4.122 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 2045-2322.

PRECNER, Marián - POLAKOVIČ, T. - TRAINER, D.J. - PUTILOV, A.V. - DI GIORGIO, C. - CONE, I. - XI, X.X. - IAVARONE, M. - KARAPETROV, Goran. Metastable defects in monolayer and few-layer films of MoS₂. In AIP Conference Proceedings, 2018, vol. 2005, no. 020004. ISSN 0094-243X.

2.3.2. Aplikačný typ

Názov: **Supravodivý drôt s MgB_2 jadrom a Al obalom a spôsob jeho výroby**

Riešiteľ: M. Balog, P. Krížik, P. Kováč, I. Hušek, L. Kopera, A. Rosová

Projekt, v rámci ktorého sa dosiahol výsledok: APVV-0522-14

Extra-ľahký supravodivý drôt MgB_2 s Ti bariérou and špeciálnym vonkajším $\text{Al}+\text{Al}_2\text{O}_3$ kompozitným obalom sa dá vyrobiť pomocou procesu vnútornej difúzie Mg do bóru. Špeciálne žihacie podmienky pri 628-635 °C počas 10-30 min umožňujú tvorbu to MgB_2 jadra s vysokou prúdovou hustotou spolu s vysoko pevným $\text{Al}+\text{Al}_2\text{O}_3$ obalom a Ti difúznou bariérou s obmedzenou interakciou na rozhraní s obalom. $\text{MgB}_2/\text{Ti}/\text{Al}+\text{Al}_2\text{O}_3$ drôt má vysoké prúdové hustoty a tiež dobrú odolnosť voči ťahovému napätiu pri nízkych teplotách. Vinutia urobené s $\text{MgB}_2/\text{Ti}/\text{Al}+\text{Al}_2\text{O}_3$ sú prinajmenej 2.5 krát ľahšie v porovnaní s vinutím z typického $\text{MgB}_2/\text{Nb}/\text{Cu}$ drôtu toho istého prierezu. Hmotnosť $\text{MgB}_2/\text{Ti}/\text{Al}+\text{Al}_2\text{O}_3$ drôtu je najľahšia možná a je viac ako rádovo nižšia v porovnaní so všetkými nízko-teplotnými aj vysoko-teplotnými supravodičmi. Týmto spĺňa požiadavky elektrických a mechanických vlastností supravodiča pre výkonné a ľahké supravodivé systémy, napr. výkonné veterné turbíny, letecké motory a systémy v kozmonautike.

Relevantné publikácie v r. 2018:

KOVÁČ, Pavol - HUŠEK, Imrich - ROSOVÁ, Alica - KULICH, Miloslav - KOVÁČ, Ján - MELIŠEK, Tibor - KOPERA, Ľubomír - BALOG, Martin - KRÍŽIK, Peter. Ultra-lightweight superconducting wire based on Mg, B, Ti and Al. In Scientific Reports, 2018, vol. 8, no. 11229. (4.122 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 2045-2322.

KOVÁČ, Pavol - HUŠEK, Imrich - KULICH, Miloslav - KOVÁČ, Ján - MELIŠEK, Tibor - KOPERA, Ľubomír - PEREZ, N. - HAESSLER, W. - BALOG, Martin - KRÍŽIK, Peter - BEREK, Dušan. Lightweight MgB_2 wires with a high temperature aluminum sheath made of variable purity Al powder and Al_2O_3 content. In Superconductor Science and Technology, 2018, vol. 31, no. 085003. (2.861 - IF2017). (2018 - Current Contents). ISSN 0953-2048.

2.3.3. Medzinárodné vedecké projekty

Názov: **Štúdium povrchových nábojov III-N heteroštruktúr pre realizáciu spínacích GaN tranzistorov**

Riešitelia: J. Kuzmík, D. Gregušová, M. Ťapajna, R. Stoklas

Medzinárodný program: V4 – Japonsko Vysoko-bezpečný GaN MOS spínací tranzistor (SAFEMOST)

Zahraniční partneri: Hokkaido Univ. (Japonsko), Silesian Univ. Technol. (Poľsko), MAV (Maďarsko)

Posledné dve dekády III-N tranzistory s vysokou pohyblivosťou elektrónov (HEMT) získali veľkú pozornosť z dôvodu vynikajúcich predpokladov pre vysoko frekvenčné a výkonové aplikácie. Toto je vďaka špecifickej vlastnosti polarizačnej dotácie, keď vysoká koncentrácia elektrónov v dvoj-rozmernom plyne kvantovej jamy sa vytvorí na rozhraní III-N bariéra/kanál kompenzovaním prítomného polarizačného náboja P_{QW} . Tento mechanizmus je úplne odlišný od konvenčnej modulačnej dotácie napr. v GaAs HEMT tranzistoroch, kde dvoj-rozmerný plyn je tvorený nespojitosťou pásov na rozhraní kanál/bariéra a prímesovou dotáciou. Pre polarizačne dotované III-N MOS HEMT-y navrhujeme že i) ionizované povrchové donory sa správajú ako fixný náboj ktorý rôzny od zachytných centier, ii) kolektorový prúd otvoreného kanála je nezávislý od koncentrácie povrchových donorov $N_{d,surf}$, iii) ak $N_{d,surf} > P_{QW}/q$, potom 2D plyn je tvorený transferom elektrónov z povrchových donorov, iv) ak $N_{d,surf} < P_{QW}/q$, potom 2D plyn je tvorený

transferom elektrónov z povrchových stavov v kombinácii s priamou injekciou z emitora.

Výstupy:

GUCMANN, Filip - ĽAPAJNA, Milan - POHORELEC, Ondrej - HAŠČÍK, Štefan - HUŠEKOVÁ, Kristína - KUZMÍK, Ján. Creation of two-dimensional electron gas and role of surface donors in III-N metal-oxide-semiconductor high-electron mobility transistors. In Physica Status Solidi A : applications and materials science, 2018, vol. 215, no. 1800090. (1.795 - IF2017). (2018 - Current Contents). ISSN 1862-6300.

Ľapajna, M., Drobny, J., Gucmann, F., Hušeková, K., Hashizume, T., and Kuzmík, J.: Impact of oxide/barrier fixed charge on threshold voltage instabilities in AlGaIn/GaN metal-oxide-semiconductor heterostructures. In: Inter. Workshop on Nitride Semicond. (IWN 2018) Kanazawa 2018.

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2018/ doplňky z r. 2017
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	0 / 0
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	0 / 0
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	0 / 0
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	0 / 0
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	0 / 0
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	0 / 0
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	0 / 0
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	0 / 0
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	54 / 1
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADN B)	11 / 2
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	0 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	3 / 0
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	0 / 0
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	1 / 0
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	22 / 0
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	3 / 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. 2017 (zdroj JCR) <i>Počet článkov / doplnky 2016</i>	21 / 0	17 / 0	16 / 1	2 / 2	56 / 3
Podľa SJR z r. 2017 (zdroj Scimago) <i>Počet článkov / doplnky 2016</i>	35 / 0	19 / 3	5 / 0	6 / 0	65 / 3

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2017/ doplnky z r. 2016
Citácie vo WOS (1.1, 2.1)	1233 / 23
Citácie v SCOPUS (1.2, 2.2)	67 / 0
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	1 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	10 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	71
Prednášky a vývesky na domácich vedeckých podujatiach	26

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

1. **Fröhlich, K.**, Kundrata, I., Blaho, M., Precner, M., Ľapajna, M., Hudec, B., Wang, I.-T., Lai, W.-L., Chang, C.-C., Hou, T.-H., Klimo, M., Šuch, O., and Škvarek, O.: Resistive switching structures for memory and logic applications. In 13th Inter. Conf. on Solid State Chemistry. Pardubice 2018.
2. **Gömöry, F.**, Ghabeli Juybari, A., Adámek, M., and Šouc, J.: Characterization of the local critical current fluctuation along the length in industrially produced CC tapes. In Workshop on Coated Conductors for Applications 2018. Vienna 2018.
3. **Chromik, Š.**, Talacko, M., Bareli, G., Camerlingo, C., Španková, M., Rosová, A., Bar, I., and Jung, G.: The influence of substrate and aging on properties of YBCO strips exposed to electron irradiation. In: 10th Inter. Conf. Solid State Surfaces Interfaces Conf. - SSSI 2018. Smolenice 2018.
4. **Korytár, D.**, Zápražný, Z., Jergel, M., Ferrari, C., Halahovets, Y., and Dobrovodský, J.: Surface quality, subsurface damage and mechanisms of material removal in nanomachining of brittle materials. In: 10th Inter. Conf. Solid State Surfaces Interfaces Conf. - SSSI 2018. Smolenice 2018.
5. **Mruczkiewicz, M.**: Skyrmion and spin wave dynamics in ultrathin films with Dzyaloshinskii-Moriya interaction. In 2018 IEEE 8th Inter. Conf. on Nanomaterials: Applications & Properties. Odessa 2018.
6. **Mruczkiewicz, M.**: Skyrmion and spin wave dynamics in ultrathin films with Dzyaloshinskii-Moriya interaction. In 3rd Inter. Advanced School on Magnonics 2018.

Kyjev 2018.

7. **Novák, J.:** Nanorods and nanocones prepared by low pressure vapour phase epitaxy. In 17th Joint Vacuum Conf. - JVC-17. Olomouc 2018.
8. **Novák, J.,** Laurenčíková, A., Eliáš, P., Hasenöhrl, S., Sojková, M., Kováč, J.jr., and Kováč, J.: Electrical and photovoltaic characteristics of MoS₂/GaP p-n junctions. In: 10th Inter. Conf. Solid State Surfaces Interfaces Conf. - SSSI 2018. Smolenice 2018.
9. **Pardo, E.,** Kapolka, M., Grilli, F., and Reis, T.: Multi-physics variational methods for magnet and power applications. In: 6th Inter. Workshop on Numerical Modelling of High Temp. Supercond. Caparica 2018.
10. **Vojenčiak, M.,** Tixador, P., Escamez, G., Pop, C., Calleja, A., Bauer, M., Angeli, G., Lacroix, C., Saraf, A., Hännisch, J., Dutoit, B., and Pekarčíková, M.: Cost effective FCL using advanced superconducting tapes for future HVDC grids – overview of European project FASTGRID. In 31st Inter. Symp. on Supercond. - ISS 2018. Tokyo 2018.
11. Hudec, B., Chang, C.-C., Wang, I-T., **Fröhlich, K.,** and Hou, T.-H.: Three-dimensional integration of ReRAMs. In IEEE Nano 2018. Cork 2018.
12. Pinčík, E., Kobayashi, H., Brunner, R., Mikula, M., Vojtek, P., Takahashi, M., Zábudlá, Z., Imamura, K., Greguš, J., and **Kučera, M.:** About optical properties of catalytic black silicon and porous silicon formed by the standard electrochemical process. In: 10th Inter. Conf. Solid State Surfaces Interfaces Conf. - SSSI 2018. Smolenice 2018.
13. Jergel, M., Halahovets, Y., Maťko, I., Šiffalovič, P., Majková, E., **Korytár, D.,** and **Zápražný, Z.:** Surface finishing of X-ray crystals optics after nanomachining. In: 10th Inter. Conf. Solid State Surfaces Interfaces Conf. - SSSI 2018. Smolenice 2018.

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

Gömöry, F.: Combining superconducting and ferromagnetic materials to make a magnetic cloak. Univ. de Montreal, Montreal 2018.

Gömöry, F.: AC losses in coated conductor tapes and cables. Deutsche Nanoschicht GmbH, Rheinbach, Germany 2018.

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

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2018

2.7.1. Vynálezy, na ktoré bol udelený patent

2.7.2. Prihlásené vynálezy

Na Slovensku - počet patentov: 2

Číslo PV: PCT/SK2018/000009

Mená autorov: Kuzmík Ján

Názov vynálezu: Vertical GaN transistor with insulating channel and the method of forming the same

Majiteľ / spolumajiteľ: Elektrotechnický ústav SAV

Číslo PV: PCT/IB2018/ISA/220

Mená autorov: Balog Martin, Krížik Peter, Kováč Pavol, Hušek Imrich, Kopera Ľubomír, Rosová Alica

Názov vynálezu: Development of MgB₂ wire with an aluminium stabilizer

Majiteľ / spolumajiteľ: Elektrotechnický ústav SAV

2.7.3. Predané licencie

2.7.4. Realizované patenty

Finančný prínos pre organizáciu SAV v roku 2018 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

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

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Chromik Štefan	VEGA	2
Španková Marianna	VEGA	1
Vanko Gabriel	VEGA	1
Zaťko Bohumír	APVV-SK-CN	1

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Recenzovanie publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet recenzovaných monografií, článkov, zborníkov

Meno pracovníka	Knížné monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Cambel Vladimír	0	0	3	0	0	0	0
Fröhlich Karol	0	0	9	0	0	0	0
Gömöry Fedor	0	0	16	0	0	0	0
Hulman Martin	0	0	2	0	0	0	0
Huran Jozef	0	0	6	0	0	0	0
Kováč Ján	0	0	1	0	0	0	0
Kováč Pavol	0	0	23	0	0	0	0

Kuzmík Ján	0	0	10	0	0	0	0
Moško Martin	0	0	2	0	0	0	0
Osvald Jozef	0	0	5	0	0	0	0
Pardo Enric	0	0	6	0	0	0	0
Rosová Alica	0	0	1	0	0	0	0
Ťapajna Milan	0	0	15	0	0	0	0
Zaťko Bohumír	0	0	2	0	0	0	0
Spolu	0	0	101	0	0	0	0

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 2018

Forma	Počet k 31.12.2018						Počet ukončených doktorantúr v r. 2018					
	Doktorandi						Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí		po skúške		ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Denná zo zdrojov SAV	13	5	3	2	4	2	0	0	0	0	0	0
Denná z iných zdrojov	0	1	0	0	0	1	1	0	0	0	0	0
Externá	1	0	0	0	1	0	0	0	0	0	0	0
Spolu	14	6	3	2	5	3	1	0	0	0	0	0
Súhrn	20		5		8		1		0		0	

Uvádza sa len doktorandov organizácie ako externej vzdelávacej inštitúcie

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 2018 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
Ing. Milan Kapolka	interné štúdium hradené z iných zdrojov	9 / 2014	8 / 2018	5.2.48 fyzikálne inžinierstvo	Mgr. Enric Pardo PhD., Elektrotechnický ústav SAV	Fakulta elektrotechniky a informatiky STU

Zoznam interných a externých doktorandov je uvedený v prílohe A.

3.4. Medzinárodné doktorandské štúdium

Tabuľka 3d Počet študentov v medzinárodných programoch doktorandského štúdia

Cotutelle	Co-direction	Iné	Zahraniční doktorandi
0	0	0	5

3.5. Zoznam akreditovaných študijných odborov s uvedením VŠ

Tabuľka 3e Zoznam akreditovaných študijných odborov 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 3f 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 hodnotu alebo vyšší kvalifikačný stupeň
RNDr. Vladimír Cambel, DrSc. (elektronika)	doc. Ing. Fedor Gömöry, DrSc. (Elektrotechnická fakulta ŽU)	Ing. Michal Blaho, PhD. (IIa)
doc. RNDr. Edmund Dobročka, CSc. (fyzikálne inžinierstvo)	doc. Ing. Jozef Novák, DrSc. (Fakulta elektrotechniky a informatiky STU)	Ing. Milan Kapolka, PhD. (PhD., Fakulta elektrotechniky a informatiky STU)
Ing. Karol Fröhlich, DrSc. (teoretická elektrotechnika)		
Ing. Karol Fröhlich, DrSc. (elektrotechnológia a materiály)		
Ing. Karol Fröhlich, DrSc. (elektronika)		
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)		

3.6. Údaje o pedagogickej činnosti

Tabuľka 3g Prednášky a cvičenia vedené v roku 2018

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	3	0	2	0
Celkový počet hodín v r. 2018	11	0	5	0

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

Tabuľka 3h Aktivity pracovníkov na VŠ

1.	Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác	4
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	4
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	13
4.	Počet školených doktorandov (aj pre iné inštitúcie)	20
5.	Počet oponovaných dizertačných a habilitačných prác	3
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	3
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	4
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	3
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	1

3.7. 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. 2018 ich bolo 9.

- **Odborná prax stredoškôľakov na EIÚ SAV**

V dňoch 21.5- 1.6. 2018 skupina 10 študentov zo SPŠ Elektrotechnická ul. K. Adlera Bratislava absolvovala odbornú prax na EIÚ SAV.

Žiaci boli rozdelení do skupín, každá skupina bola na jednom zo štyroch oddelení. Študenti sa postupne 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.

Skúsenosti získané na našom pracovisku môžu pomôcť žiakom pri výbere vysokej školy a orientácii pracovať vo výskume v technických vedách.

- **Zvyšovanie teoretickej a praktickej zdatnosti PhD študentov Ústavu**

Prednášky Vybrané kapitoly z fyziky pevných látok a kvantovej elektroniky RNDr. M. Moška, DrSc. prebiehali 2 týždne v 4-hodinových blokoch podľa vopred stanoveného rozpisu. Zúčastnili sa ich PhD študenti Ústavu aj FMFI UK.

EIÚ SAV ďalej ponúkla prípravu praktík (cvičení) pre študentov VŠ v študijnom odbore elektronika, elektrotechnika, fyzika tuhých látok a pod. Praktikum prebiehalo počas semestra, týždenne v 2- až 4-hodinových blokoch. Pre menšie skupiny (15) študentov bol zabezpečený prístup do čistých priestorov a ostatných laboratórií EIÚ SAV. Pri praktickom cvičení si študenti mohli osvojiť planárnu technológiu, praktické využitie diagnostických metód a elektrických meraní.

- **Účast' pracovníkov na odborných vzdelávacích kurzoch na zahraničí**

Kurz	Predmet	Meno pracovníka
ESAS/EASI Train Summer School, Vienna	AC losses in superconductors	F. Gömöry
School on 2D Materials, Univ. Ostrava	Electronic structure of 2D materials: graphene and boron nitride, relativistic analogies with Dirac equation	A. Mošková, M. Moško

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2018 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 2019 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Fedor Ján	0	1	0
Fröhlich Karol	1	0	0
Gömöry Fedor	1	0	1
Korytár Dušan	1	0	0
Osvald Jozef	1	0	1
Pardo Enric	0	0	1
Vanko Gabriel	1	0	0
Spolu	5	1	3

4.2. Členstvo a funkcie v medzinárodných orgánoch

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

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
Kuzmík Ján	HORIZON2020	3
Ťapajna Milan	Slovak – Polish bilateral project cooperation SAS – PAS	1

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

- SAFEMOST project V4-Japan:

Gucmann F., Ťapajna M., Pohorelec O., Haščík Š., Hušeková K., Kuzmík J.: Creation of Two-Dimensional Electron Gas and Role of Surface Donors in III-N Metal-Oxide-Semiconductor High-Electron Mobility Transistors, Phys. Stat. Sol. A (2018) 1800090.

Hashizume, T., Nishiguchi, K., Kaneki, S., Kuzmik, J., and Yatabe, Z.: [State of the art on gate insulation and surface passivation for GaN-based power HEMTs](#), Mater. Sci in Semicond. Process. 78 (2018) 85-95.

- 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.

Dosiahnuté výsledky pri riešení projektu:

Chromik, Š., Španková, M., Talacko, M., Dobročka, E., and Lalinský, T.: *Some peculiarities at preparation of Bi₄Ti₃O₁₂ films for bolometric applications*, Applied Surface Sci 461 (2018) 39-43.

- V rámci MAD sa uskutočnila pracovná cesta Ing. Štefana Chromika, DrSc., na Univerzitu Beersheva, Izrael (prof. Grzegorz Jung) a na Racah Institute of Physics, The Hebrew University of Jerusalem (Jeruzalem), kde sme sa zaoberali s vlastnosťami a štruktúrou elektrónmi ožiarených vzoriek, meraniami vzoriek tenkých vrstiev Nb a NbN nanosených na cylindrickú podložku. So skupinou Prof. Paltielu prebiehajú prvé experimenty aplikácie dlhých organických molekúl na vysokoteplotné supravodiče a tenké vrstvy LaSrMnO.

Dosiahnuté výsledky pri riešení projektu:

Tsindlekht, M.I., Genkin, V.M., Felner, I., Zeides, F., Katz, N., Gaži, Š., Chromik, Š., Dobrovolskiy, O.V., Sachser, R., and Huth, M.: *Magnetic moment jumps in flat and nanopatterned Nb thin-walled cylinders*, Physica C 533 (2017) 101-104.

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. Vedná politika

6. Spolupráca s univerzitami/vysokými školami, štátnymi a neziskovými inštitúciami okrem aktivít uvedených v kap. 2, 3, 4

6.1. Spolupráca s univerzitami/VŠ (fakultami)

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

Druh spolupráce (spoločné pracovisko alebo iné): iné

Začiatok spolupráce: 1992

Zameranie: Výchova študentov, spoločná príprava a riešenie projektov a aplikačných riešení

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

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

Druh spolupráce (spoločné pracovisko alebo iné): iné

Začiatok spolupráce: 1969

Zameranie: Výchova študentov, spoločná príprava a riešenie projektov a aplikačných riešení

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

Názov univerzity/vysokej školy a fakulty: Materiálovotechnologická fakulta STU v Trnave

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko, semináre – využitie iónovej implantácie pre technológiu GaN elektronických prvkov, spoločný výskum

Začiatok spolupráce: 2018

Zameranie: Kalibrácia výťažnosti SIMS profilov v GaN vrstvách pomocou implantácie prvkov do GaN vrstiev, spoločný výskum podpovrchového narušenia mriežky germánia po nanoobrábaní metódou RBS (Rutherford backscattering)

Zhodnotenie: Výsledky boli zahrnuté do pozvanej spoločnej prednášky : Korytár, D., Zápražný, Z., Jergel, M., Ferrari, C., Halahovets, Y., and Dobrovodský, J.: Surface quality, subsurface damage and mechanisms of material removal in nanomachining of brittle materials. In: 10th Inter. Conf. Solid State Surfaces Interfaces Conf. - SSSI 2018. Smolenice 2018.

Názov univerzity/vysokej školy a fakulty: Temple University, Philadelphia, USA

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko, semináre: rozvoj laboratórií, výskum, stáže našich pracovníkov/študentov

Začiatok spolupráce: 2012

Zameranie: výskum 2D materiálov, skenovacie techniky, nízke teploty, UHV systémy

Zhodnotenie: aktívna spolupráca, príprava spoločnej publikácie

Názov univerzity/vysokej školy a fakulty: University of Vienna, Rakúsko

Druh spolupráce (spoločné pracovisko alebo iné): spoločný výskum,

Začiatok spolupráce: 2000

Zameranie: výskum 2D materiálov, grafén, elektrónová mikroskopia, VTS a MgB₂ supravodiče, magnetické merania

Zhodnotenie: aktívna spolupráca, spoločná publikácia

Názov univerzity/vysokej školy a fakulty: Drexel University, Philadelphia, USA

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko, semináre: rozvoj laboratórií, výskum, stáže našich pracovníkov/študentov

Začiatok spolupráce: 2012

Zameranie: výskum 2D materiálov, skenovacie techniky, nízke teploty, UHV systémy

Zhodnotenie: aktívna spolupráca, príprava spoločnej publikácie

Názov univerzity/vysokej školy a fakulty: University of Applied Sciences Dornbirn, Austria

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko, semináre, realizácia experimentov s následnými vedeckými výstupmi

Začiatok spolupráce: 2012

Zameranie: MEMS, laserová ablácia, mikroelektronika, senzorika,

Zhodnotenie: výsledky zahrnuté do publikácie a príspevku na konferenciu:

Zehetner, J., Kasemann, S., Vanko, G., Babchenko, O.: Black titanium dioxide in situ generated on femtosecond laser induced periodic surface structures. In: ASDAM 2018. Eds. J. Breza et al. IEEE 2018. ISBN 978-1-5386-7488-8. P. 203-206.

Názov univerzity/vysokej školy a fakulty: University Poznań, Poland

Druh spolupráce (spoločné pracovisko alebo iné): výskum, príprava spoločných článkov

Začiatok spolupráce: 2016

Zameranie: Numerická simulácia stabilizácie skyrmiónu a jeho dynamiky

Zhodnotenie: aktívna spolupráca

Názov univerzity/vysokej školy a fakulty: University of the Basque Country San Sebastian, Spain

Druh spolupráce (spoločné pracovisko alebo iné): výskum, príprava spoločných článkov

Začiatok spolupráce: 2016

Zameranie: Analytické výpočty a numerické simulácie dynamiky skyrmiónov

Zhodnotenie: sľubne sa rozvíjajúca spolupráca, príprava publikácie

Názov univerzity/vysokej školy a fakulty: University of Leeds, United Kingdom

Druh spolupráce (spoločné pracovisko alebo iné): výskum, príprava spoločných článkov

Začiatok spolupráce: 2016

Zameranie: Simulácie a experiment stabilizácie skyrmiónu v mnohovrstvovej nanobodke

Zhodnotenie: sľubne sa rozvíjajúca spolupráca

Názov univerzity/vysokej školy a fakulty: Saratov State University Saratov, Russia Federation

Druh spolupráce (spoločné pracovisko alebo iné): výskum, príprava spoločných článkov

Začiatok spolupráce: 2016

Zameranie: BLS merania DMI konštanty

Zhodnotenie: aktívna spolupráca, nová doktorandka (I. Vetrova)

Názov univerzity/vysokej školy a fakulty: University of Oxford

Druh spolupráce (spoločné pracovisko alebo iné): spoločný výskum

Začiatok spolupráce: 2005

Zameranie: MgB₂ supravodiče, štúdium mikro-štruktúry

Zhodnotenie: spoločné publikácie

Názov univerzity/vysokej školy a fakulty: Fyzikální ústav, AV ČR, Praha, ČR

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné experimenty, publikácie, v prípade výziev návrh spoločných projektov

Začiatok spolupráce: 2012

Zameranie: výskum hybridných štruktúr na báze diamantu a III-N materiálového systému pre elektroniku a senzoriku v extrémnych podmienkach

Zhodnotenie: výsledky zahrnuté do publikácie a príspevku na konferenciu

Babchenko, O., Vanko, G., Gerboc, M., Ižák, T., Vojs, M., Lalinský, T., and Kromka, A.: Study on electronic properties of diamond/SiNx-coated AlGaN/GaN high electron mobility transistors operating up to 500 °C, Diamond Related Mater. 89 (2018) 266-272.

Ižák, T., Jirásek, V., Vanko, G., Babchenko, O., Vincze, A., Vojs, M., and Kromka, A.:

Diamond/GaN heterostructures: stress evaluation from top- and cross-sectional Raman measurements. In: 19th Inter. Conf. on Metalorganic Vapor Phase Epitaxy - ICMOVPE-XIX. Nara

2018. Výveska.

Názov univerzity/vysokej školy a fakulty: University of Zaragoza, Spain

Druh spolupráce (spoločné pracovisko alebo iné): spoločný výskum

Začiatok spolupráce: 2008

Zameranie: MgB_2 supravodiče, stabilita supravodičov, Rutherford káble

Zhodnotenie: spoločné publikácie

Názov univerzity/vysokej školy a fakulty: University of Geneva, Switzerland

Druh spolupráce (spoločné pracovisko alebo iné): spoločný výskum

Začiatok spolupráce: 2017

Zameranie: MgB_2 supravodiče, tepelná vodivosť

Zhodnotenie: príprava spoločnej publikácie

Názov univerzity/vysokej školy a fakulty: IFW Dresden, Nemecko

Druh spolupráce (spoločné pracovisko alebo iné): spoločný výskum

Začiatok spolupráce: 2005

Zameranie: MgB_2 supravodiče, IMD metóda, špeciálne merania

Zhodnotenie: spoločné publikácie

Názov univerzity/vysokej školy a fakulty: UNIPRESS Varšava, Poľsko

Druh spolupráce (spoločné pracovisko alebo iné): spoločný výskum

Začiatok spolupráce: 1995

Zameranie: kompozitné supravodiče, vplyv vysokých tlakov

Zhodnotenie: spoločné projekty a spoločné publikácie

6.2. Významné aplikácie výsledkov výskumu v spoločenskej praxi alebo vyriešenie problému pre štátnu alebo neziskovú inštitúciu

6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe

7. Spolupráca s aplikačnou a hospodárskou sférou okrem aktivít uvedených v kap. 2, 3, 4

7.1. Spoločné pracoviská s aplikačnou sférou

Názov pracoviska: Výskumno-vývojové centrum pre pokročilé rtg technológie

Partner(i): Integra TDS, s.r.o., FÚ SAV

Zameranie: rtg technológie

Rok založenia: 2012

Zhodnotenie: Prebieha monitorovacie obdobie, vyvolané projekty APVV, VEGA, spoločné publikácie, pripravovaná spoločná patentová prihláška

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe

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.	Akreditačná komisia	člen Pracovnej skupiny pre elektrotechniku
	SKVH	člen
Ing. Pavol Kováč, DrSc.	SKVH	člen do júna 2018

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 vládnyimi 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	6	tlač	3	TV	1
rozhlas	1	internet	2	exkurzie	1
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	1				

9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
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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	1	0	0
Spolu	1	0	0

9.5. Členstvo v redakčných radách časopisov

Ing. Karol Fröhlich, DrSc.

Material Science in Semiconductor Processing (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)

9.6. Činnosť v domácich vedeckých spoločnostiach

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

- Mítingy projektov HORIZON2020

16. - 17. apríla sa na Ústave konal míting projektu ASUMED, zúčastnilo sa ho 30 účastníkov z 9 partnerských inštitúcií z Nemecka, Francúzska, Veľkej Británie, Holandska, Ruska.

22. - 23. novembra pre projekt FASTGRID pre 35 účastníkov z 12 partnerských inštitúcií z Kanady, Nemecka, Španielska, Francúzska, Švajčiarska, Izraela, Talianska a Slovenska

- Seminár projektu COST - HERALD

Skupina ECI (Early Career Investigator) zorganizovala seminár o využití divadelných techník pre zlepšenie komunikácie o vede. Seminár bol prvým dňom 3rd ECI Workshop: Science Communication and Mapping a Future Road for ECIs.

Interaktívny seminár absolvovalo 15 účastníkov z 13 partnerských inštitúcií z Maďarska, Srbska, Švédska, Česka, Portugalska, Rakúska, Ukrajiny, Nemecka, Turecka, Bulharska, Filipín, Talianska a Indie.

- Ústav pozýva odborníkov zo zahraničia z rôznych oblastí výskumu:
 - Dr. G. Karapetrov (Drexel Univ. (USA): Latest advances in “Quantum 2D Materials” i.e. twodimensional correlated electron systems
 - Dr. A.V. Sadovnikov (Saratov State Univ.): Brillouin light scattering of spin-wave transport in magnonic structures
 - Dr. I. Rýger (NIST, USA): The force effects of light: How to measure the electromagnetic power by radiation pressure
 - Dr. J. Ociepa (OCI Vacuum Microengn., Canada): Recent progress in Low Energy Electron Diffraction (LEED) instrumentation and application for epitaxy
 - Prof. M. Iavarone (Temple Univ. Philadelphia): STM studies of FeSe single crystals
 - Dr. D. Kochana (Univ. Regensburg): Spin relaxation, and pseudo-topological states in graphene based systems
- Európska noc výskumníkov 2018

Ústav sa tradične zapojil do akcií v rámci už dvanásteho ročníka festivalu vedy – Európska Noc výskumníkov, ktorý sa uskutočnil 28. septembra 2018.

Vo vedeckom stánku nazvanom Nevšedné materiály pre elektro(tech)niku v Starej tržnici prezentoval z oblasti supravodivosti princíp voľného pohybu levitujúcich supravodivých objektov v magnetickom poli po dráhe tvorenej permanentnými magnetmi, ktorý je využívaný aj na nadnášanie super-rýchlych Maglev vlakov.

Z oblasti elektroniky pracovníci vysvetlili technológiu prípravy rýchlych mikrovlnných tranzistorov pre aplikácie v radarovej a satelitnej technike. V interaktívnej ukážke si mohli záujemci sami vyskúšať proces litografie a pozrieť si svoj výrobok pod mikroskopom.

Z oblasti fotovoltaiiky využili solárny koncentrátor (Fresnelova šošovka) na sústredenie slnečného žiarenia na malú plochu slnečného článku, ktorý potom dokázal vyrobiť dostatok elektrickej energie na rozsvietenie LED diódy (svetloemitujúca dióda). Vysvetlili aj technológiu prípravy tandemových slnečných článkov na báze III-V polovodičov.

- EIÚ SAV a Centrum aplikovaného výskumu zorganizovali 6. novembra Deň otvorených dverí

Ústav navštívilo 260 žiakov so sprievodom zo škôl:

Cirkevná ZŠ Narnia

SPŠE Zochova

SPŠE Hálova

SPŠE Adlera

Gymnázium J. Papánka

Gymnázium Pezinok

Gymnázium Metodova

Mokrohájska

Študenti zo Žilinskej Univerzity

- Konzultácia expertov z EIÚ SAV

Dňa 16. mája 2018 navštívil náš ústav pán Ervín Holdoš, držiteľ patentu SK 283590 B6 „Elektromechanické zavlažovacie zariadenie“. V sprievode svojho synovca Ing. Jozefa Holdoša prišiel diskutovať o tom, ako by sa dalo overiť zvýšenie účinnosti elektrického pohonu vďaka zaradeniu prídavného zotrvačnickového telesa, ktoré sám navrhol.

Dohodli sme sa na uskutočnení terénnych meraní jeho vynálezu. Vycestovali sme preto 16. júla vyzbrojení prenosným meracími prístrojmi na meranie činného a jalového výkonu a celkovej spotreby energie, do obce Jablonica (okres Senica). Tam na dvore rodinného domu pani Jaroslavy Pšenkovej, sestry Jozefa Holdoša, je zariadenie inštalované.

Naše merania potvrdili, že pohon dvojice čerpadiel zvýši spotrebu energie menej, ako na dvojnásobok. Pristúpili sme preto k druhému kroku, porovnaniu množstva prečerpanej vody. Tam sa ukázalo, že jedno z čerpadiel pracuje iba na zlomok výkonu, a teda zvýšenú účinnosť prečerpávania sa potvrdiť nepodarilo. Domáci budú musieť napred odstrániť tento nedostatok, až potom by sa dala celková účinnosť vyhodnotiť.



10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		8267
z toho	knihy a zviazané periodiká	7317
	audiovizuálne dokumenty	
	elektronické dokumenty (vrátane digitálnych)	144
	mikroformy	
	iné špeciálne dokumenty - dizertácie, výskumné správy	806
	Rukopisy, vzácne tlače	
Počet titulov dochádzajúcich periodík		3
z toho zahraničné periodiká		1
Ročný prírastok knižničných jednotiek		2
v tom	kúpou	2
	darom	
	výmenou	
	bezodplatným prevodom	
	náhradou	
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		7317

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)		0
v tom z r. 1	prezenčné výpožičky	0
	absenčné výpožičky	0
v tom z r. 1	odborná literatúra pre dospelých	0
	výpožičky periodík	0
MVS iným knižniciam		0
MVS z iných knižníc		3
MMVS iným knižniciam		0
MMVS z iných knižníc		0
Počet vypracovaných bibliografií		0

Počet vypracovaných rešerší	170
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10.3. Používatelia

Tabuľka 10c Používatelia

Registrovaní používatelia	106
Návštevníci knižnice spolu (bez návštevníkov podujatí)	0

10.4. Iné údaje

Tabuľka 10d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	1
Náklady na nákup knižničného fondu v €	291

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

Ing. Ján Fedor, PhD

- Kontrolná rada areálu SAV (člen)

Ing. Karol Fröhlich, DrSc.

- Komisia SAV pre vesmírne aktivity (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)
- Rada SAV pre vzdelávanie a doktorandské štúdium (člen)

doc. RNDr. Martin Moško, DrSc.

- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (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 informatické vedy a fyzikálne vedy (člen)

Ing. Štefan Chromik, DrSc.

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

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 PO SAV

Tabuľka 12a Výdavky PO SAV (v €)

V ý d a v k y	Skutočnosť k 31.12.2018 spolu	v tom:			
		zo ŠR od zriaďovateľ a	z vlastných zdrojov	z iných zdrojov	z toho: ŠF EÚ
Výdavky spolu	3 137 441.00	2 022 753.46	67 961.55	1 046 725.99	0.00
Bežné výdavky	3 120 930.18	2 017 898.00	56 306.19	1 046 725.99	0.00
v tom:					
mzdy (610)	1 560 367.39	1 190 743.56	34 263.48	335 360.35	
poistné a príspevok do poisťovní (620)	529 122.79	407 234.98	4 675.62	117 212.19	
tovary a služby (630)	698 271.42	302 860.79	11 454.02	383 956.61	
z toho: časopisy	119.00	119.00			
VEGA projekty	141 667.00	141 667.00			
MVTS projekty	80 810.00	80 810.00			
CE/SASPRO	23 964.92	23 964.92			
vedecká výchova	6 440.00	6 440.00			
bežné transfery (640)	333 168.58	117 058.67	5 913.07	210 196.84	0.00
z toho: štipendiá	110 507.56	105 657.00	3 465.56	1 385.00	
transfery partnerom projektov	211 259.35		2 447.51	208 811.84	
Kapitálové výdavky	16 510.82	4 855.46	11 655.36	0.00	0.00
v tom:					
obstarávanie kapitálových aktív	16 510.82	4 855.46	11 655.36		
kapitálové transfery	0.00				
z toho: transfery partnerom projektov	0.00				

12.2. Príjmy PO SAV

Tabuľka 12b Príjmy PO SAV (v €)

P r í j m y	Skutočnosť k 31.12.2018 spolu	v tom:	
		rozpočtové	z mimorozp. zdrojov
Príjmy spolu	3 132 249.39	2 022 753.46	1 109 495.93
Nedaňové príjmy	2 078 287.93	2 022 753.46	55 534.47
v tom:			
príjmy z prenájmu	0.00		
príjmy z predaja výrobkov a služieb	41 956.40		41 956.40
iné	13 578.07		13 578.07
Granty a transfery (mimo zdroja 111)	1 053 961.46	0.00	1 053 961.46
v tom:			
tuzemské	834 945.24		834 945.24
z toho: APVV	834 945.24		834 945.24
iné	0.00		
zahraničné	219 016.22		219 016.22
z toho: projekty rámcového programu EÚ	219 016.22		219 016.22
iné	0.00		

13. Nadácie a fondy pri organizácii SAV

14. Iné významné činnosti organizácie SAV

- Pri príležitosti 65. výročia založenia základov EIÚ SAV sa v Kongresovom centre v Smoleniciach konalo 6. apríla 2018 spoločenské stretnutie súčasných, bývalých zamestnancov EIÚ SAV a pozvaných hostí.

Na slávnostnom podujatí sa okrem zamestnancov EIÚ SAV zúčastnili aj podpredseda SAV pre vedu, výskum a inovácie prof. RNDr. P. Samuely, DrSc. a podpredseda SAV pre prvé oddelenia vied RNDr. P. Siman, PhD. Po otvorení slávnosti prof. Samuely v príhovore zagrataloval EIÚ SAV k významnému výročiu a vyzdvihol doterajšie vedecké a organizačné pôsobenie ústavu v rámci SAV.

Najmä o vedeckom fungovaní ústavu v minulosti informovali doc. Ing. P. Kordoš, DrSc. a doc. Ing. F. Gömöry, DrSc. Vo svojich prednáškach o histórii ústavu upozornili na kontinuitu vedeckého zamerania v oblastiach výskumu polovodičov a supravodičov od čias jeho formovania až podnes.

Zásadne sa o nasmerovanie základného výskumu v oboch spomínaných oblastiach zaslúžil

Ing. Ivan Hlásnik, DrSc. – riaditeľ v r. 1964-1968.

Práve po I. Hlásnikovi bola nazvaná Medaila EIÚ SAV, ktorú sa ústav rozhodol udeľovať ako ocenenie svojim pracovníkom ako aj vedcom mimo SAV, ktorí sa výrazným spôsobom zaslúžili o rozvoj EIÚ SAV, zvýšenie kreditu ústavu v zahraničí ako aj rozvoj vedy a výskumu na Slovensku i v zahraničí.

Historicky prvá Medaila EIÚ SAV I. Hlásnika bola odovzdaná jeho pozostalej rodine.

Vedenie a Vedecká rada EIÚ SAV potom odovzdali ocenenie doc. Ing. P. Kordošovi, DrSc. za mimoriadny vedecký a organizačný prínos k rozvoju EIÚ SAV a RNDr. Š. Beňáčkovi, CSc. za vynikajúce dielo z oblasti vedy, ktoré prispelo k zvýšeniu vedeckého kreditu EIÚ SAV na Slovensku i v zahraničí.



- **Pobyty zahraničných pracovníkov na EIÚ**

Študijné a postdoktorandské pobyty hradené vysielajúcimi pracoviskami:

Meno	Krajina	Inštitúcia	Trvanie
A. Ghabeli Juybari	Irán	Shahed Univ., Teheran	6 mesiacov
G. Karapetrov	USA	Drexel Univ. Philadelphia	6 mesiacov
Y. Nagasaki	USA	NASA - Ames Research Center Moffat Field, CA	2 mesiace
M. Zelent	Poľsko	A. Mickiewicz Univ., Poznan	1 mesiac
Yildiz S.	Turecko	Ahi Evran Univ., Kırsehir	1 mesiac
F. Inanir	Turecko	Recep Tayyip Erdoğan Univ., Rize	1 mesiac

Študijné a postdoktorandské pobyty hradené štipendiom SAIA:

Meno	Krajina	Inštitúcia	Trvanie
A. V. Sadovnikov	Rusko	Univ. Saratov	1 mesiac

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2018

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Gömöry Fedor

Cena SAV v kategórii vedeckých publikácií s vysokým počtom citácií

Oceňovateľ: SAV

Soloviov Mykola

Cena SAV v kategórii vedeckých publikácií s vysokým počtom citácií

Oceňovateľ: SAV

Šouc Ján

Cena SAV v kategórii vedeckých publikácií s vysokým počtom citácií

Oceňovateľ: SAV

15.1.2. Iné domáce ocenenia

Kapolka Milan

Študentská osobnosť Slovenska akad. r. 2017/2018

Oceňovateľ: Junior Chamber International-Slovakia

Opis: 1. miesto v kategórii Elektrotechnika, priemyselné technológie za mimoriadne výsledky v študijnej ako aj vedecko-výskumnej oblasti

15.2. Medzinárodné ocenenia

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 31.12.2018

Zoznam zamestnancov podľa štruktúry (nadväzne na údaje v Tabuľke 1a)

	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.	70	0.70
3.	doc. Ing. Fedor Gömöry, DrSc.	100	1.00
4.	RNDr. Dagmar Gregušová, DrSc.	100	1.00
5.	Ing. Štefan Chromík, DrSc.	60	0.60
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	0.80
Vedúci vedeckí pracovníci CSc., PhD.			
1.	Ing. František Dubecký, CSc.	40	0.40
Samostatní vedeckí pracovníci			
1.	Ing. Michal Blaho, PhD.	100	1.00
2.	RNDr. Pavol Boháček, CSc.	100	1.00
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.	50	0.50
9.	RNDr. Michal Kučera, PhD	100	1.00
10.	Ing. Róbert Kúdela, CSc.	60	0.60
11.	Ing. Peter Lobotka, CSc.	60	0.60
12.	RNDr. Antónia Mošková, CSc.	80	0.80
13.	Mgr. Enric Pardo, PhD.	100	1.00
14.	Ing. Jozef Pitel, CSc.	100	0.00
15.	Ing. Alica Rosová, CSc.	100	1.00

16.	Mgr. Eugen Seiler, PhD	100	1.00
17.	Mgr. Michaela Sojková, PhD.	100	1.00
18.	Mgr. Mykola Soloviov, PhD.	100	1.00
19.	Ing. Roman Stoklas, PhD.	100	1.00
20.	Ing. Ján Šoltýs, PhD	100	1.00
21.	Ing. Ján Šouc, CSc.	100	1.00
22.	RNDr. Marianna Španková, PhD	100	1.00
23.	RNDr. Vladimír Štrbík, CSc.	100	1.00
24.	Ing. Milan Ťapajna, PhD.	100	1.00
25.	Ing. Jaroslav Tóbik, PhD.	100	1.00
26.	Ing. Gabriel Vanko, PhD.	100	1.00
27.	Ing. Michal Vojenčiak, PhD.	100	1.00
28.	Mgr. Bohumír Zaťko, PhD	100	1.00
Vedecí pracovníci			
1.	Ing. Jozef Fabian, CSc	100	1.00
2.	Mgr. Juraj Feilhauer, PhD.	100	1.00
3.	Ing. Filip Guemann, PhD.	100	0.00
4.	Ing. Ladislav Hrubčín, CSc.	10	0.00
5.	Ing. Milan Kapolka, PhD.	100	1.00
6.	Dr. Goran Karapetrov, PhD.	100	0.25
7.	Mgr. Ján Kováč, PhD.	100	1.00
8.	Mgr. Agáta Laurenčíková, PhD.	100	0.67
9.	Ing. Shuo Li, PhD.	100	1.00
10.	Dr. Michal Mruczkiewicz	100	1.00
11.	Ing. Marián Precner, PhD.	100	1.00
12.	Ing. Ivan Rýger, PhD.	100	0.00
13.	Ing. Tomáš Ščepka, PhD.	100	1.00
14.	Ing. Zdenko Zápražný, PhD.	100	1.00
Odborní pracovníci s VŠ vzděláním (výzkumní a vývojoví zaměstnanci)			
1.	Ing. Dušan Berek	100	1.00
2.	Mgr. Jana Brndiarová	40	0.40
3.	Mgr. Konstantin Bublikov	20	0.20
4.	Ing. Anang Dadhich	20	0.18
5.	Mgr. Fridrich Egyenes-Pörsök	20	0.05
6.	Ing. Peter Eliáš	100	1.00

7.	Ing. Lubomír Frolek	100	1.00
8.	Ing. Norbert Gál	40	0.40
9.	Mgr. Štefan Gaži	40	0.40
10.	Ing. Bronislava Gelušiaková	20	0.05
11.	Ing. Asef Ghabeli Juybari	20	0.07
12.	Ing. Stanislav Hasenöhr	100	1.00
13.	Ing. Imrich Hušek	100	1.00
14.	RNDr. Kristína Hušeková	100	1.00
15.	Mgr. Peter Hutár	40	0.33
16.	Ing. Prerna Chauhan	40	0.40
17.	Ing. Eva Kováčová	100	1.00
18.	Ing. Tomáš Kujovič	20	0.20
19.	Ing. Ivan Kundrata	40	0.37
20.	Ing. Tibor Melišek	100	1.00
21.	Ing. Edita Mikulášová	20	0.20
22.	Ing. Marek Mošať	20	0.20
23.	RNDr. Katarína Neilinger	40	0.00
24.	Ing. Ondrej Pohorelec	20	0.05
25.	Ing. Rastislav Ries	20	0.20
26.	Mgr. Mária Sekáčová	100	1.00
27.	Mgr. Peter Šichman	20	0.20
28.	Ing. Marcel Talacko	40	0.37
29.	Mgr. Iuliia Vetrova	20	0.07
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Mgr. Miroslav Adámek	100	1.00
2.	Mgr. Miroslava Blázyová	100	0.83
3.	PhDr. Anna Gömöryová	100	1.00
4.	Ing. Anna Kršjaková	80	0.80
5.	Ing. Pavol Mozola	100	1.00
6.	Mgr. Vojtech Ogrodnik	40	0.40
7.	Mgr. Peter Štefko	50	0.46
8.	Ing. Marta Zofcsáková	100	1.00
Odborní pracovníci ÚSV			
1.	Juraj Arbet	100	1.00
2.	Ján Dérer	80	0.80

3.	Dagmar Erbenová	100	1.00
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	80	0.67
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.	Jozef Talapa	40	0.40
17.	Juraj Tančár	100	1.00
18.	Margita Valentínová	80	0.80
19.	Michal Vrbovský	100	1.00
Ostatní pracovníci			
1.	Kvetoslava Hamburgová	100	1.00
2.	Ján Matlovič	60	0.60
3.	Júlia Poláková	50	0.50
4.	Mária Poórová	50	0.50
5.	Ivo Šimek	60	0.30
6.	Róbert Vanek	100	1.00
7.	Irena Vinceková	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Samostatní vedeckí pracovníci			
1.	Mgr. Oleg Babchenko, PhD.	30.4.2018	0.33
Vedeckí pracovníci			
1.	Ing. Miloslav Kulich, PhD.	30.6.2018	0.50
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Dominika Poláková	30.6.2018	0.50
Odborní pracovníci ÚSV			

1.	Peter Drlička	30.6.2018	0.50
2.	Pavol Mužík	31.3.2018	0.15
Ostatní pracovníci			
1.	Eva Domoráková	1.2.2018	0.50
2.	František Karovič	1.1.2018	0.50
3.	Jozef Volko	30.4.2018	0.33

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení z prostředků SAV			
1.	Mgr. Jana Brndiarová	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
2.	Mgr. Konstantin Bublikov	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
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. Norbert Gál	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
6.	Ing. Bronislava Gelušiaiová	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
7.	Ing. Asef Ghabeli Juybari	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
8.	Mgr. Peter Hutár	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
9.	Ing. Prerna Chauhan	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
10.	Ing. Tomáš Kujovič	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
11.	Ing. Ivan Kunderata	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
12.	Ing. Edita Mikulášová	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
13.	Ing. Marek Mošat'	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
14.	Ing. Ondrej Pohorelec	Fakulta elektrotechniky a informatiky STU	5.2.13 elektronika
15.	Ing. Rastislav Ries	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
16.	Mgr. Peter Šichman	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
17.	Ing. Marcel Talacko	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
18.	Mgr. Iuliia Vetrova	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
Interní doktorandi hrazení 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 %)
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Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi
1.	RNDr. Štefan Beňačka, CSc.

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medzivládna dohoda

1.) Príprava a vlastnosti supravodivých, magnetických, a dielektrických vrstiev pre kryoelektronické štruktúry

Zodpovedný riešiteľ: Štefan Chromik
Trvanie projektu: 1.1.2016 / 31.12.2018
Evidenčné číslo projektu: 24
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Poľsko: 1

Programy: COST

2.) Zachytenie spoločného európskeho výskumu v nanášaní po atomárnych vrstvách (*Hooking together European research in atomic layer deposition*)

Zodpovedný riešiteľ: Karol Fröhlich
Trvanie projektu: 4.12.2014 / 4.12.2018
Evidenčné číslo projektu: MP1402
Organizácia je koordinátorom projektu: nie
Koordinátor: Tyndall National Institute, Cork
Počet spoluriešiteľských inštitúcií: 22 - Belgicko: 1, Nemecko: 1, Dánsko: 1, Španielsko: 1, Estónsko: 1, Fínsko: 1, Francúzsko: 1, Veľká Británia: 1, Grécko: 1, Chorvátsko: 1, Maďarsko: 1, Švajčiarsko: 2, Írsko: 1, Taliansko: 1, Luxembursko: 1, Holandsko: 1, Nórsko: 1, Poľsko: 1, Portugalsko: 1, Švédsko: 1, Turecko: 1
Čerpané financie: -
Podpora medzinárodnej spolupráce z národných zdrojov: 4480 €

Dosiahnuté výsledky:

V rámci projektu COST MP 1402 (HERALD) skupina ECI (Early Career Investigator) zorganizovala seminár o využití divadelných techník pre zlepšenie komunikácie o vede. Seminár bol prvým dňom 3rd ECI Workshop: Science Communication and Mapping a Future Road for ECIs.

Interaktívny seminár absolvovalo 15 účastníkov z 13 partnerských inštitúcií z Maďarska, Srbska, Švédska, Česka, Portugalska, Rakúska, Ukrajiny, Nemecka, Turecka, Bulharska, Filipín, Talianska a Indie.

3.) Smerom k elektronike na báze oxidov (*Towards Oxide-Based Electronics*)

Zodpovedný riešiteľ:	Štefan Chromik
Trvanie projektu:	1.2.2016 / 30.4.2018
Evidenčné číslo projektu:	MP1308
Organizácia je koordinátorom projektu:	nie
Koordinátor:	CNRCNR-SPIN
Počet spoluriešiteľských inštitúcií:	28 - Rakúsko: 1, Belgicko: 1, Bulharsko: 1, Česko: 1, Nemecko: 1, Dánsko: 1, Španielsko: 1, Fínsko: 1, Francúzsko: 1, Veľká Británia: 1, Grécko: 1, Chorvátsko: 1, Švajčiarsko: 1, Írsko: 1, Izrael: 1, Taliansko: 1, Litva: 1, Luxembursko: 1, Lotyšsko: 1, Holandsko: 1, Nórsko: 1, Poľsko: 1, Portugalsko: 1, Rumunsko: 1, Srbsko: 1, Slovinsko: 1, Švédsko: 1, Turecko: 1
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 1493 €

Dosiahnuté výsledky:

V dňoch 12.-14. 3. 2018 na záverečnom mítingu COST TO-BE organizovanom v Španielsku, sme prezentovali (Š. Chromik, M. Španková) výsledky našej skupiny vo forme vývesky s názvom: Some peculiarities at preparation of Bi₄Ti₃O₁₂ films for bolometric applications

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

Zodpovedný riešiteľ:	Michał 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

Programy: International Visegrad Found (IVF)

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

Zodpovedný riešiteľ:	Ján Kuzmík
Trvanie projektu:	1.10.2015 / 31.10.2018
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	3 - Maďarsko: 1, Japonsko: 1, Poľsko: 1
Čerpané financie:	IVF: 11074 €

Podpora medzinárodnej spolupráce z národných zdrojov: 18750 €

Dosiahnuté výsledky:

Gregušová, D., Blaho, M., Šichman, P., Haščík, Š., Pohorelec, O., Hasenöhrl, S., Stoklas, R., Laurenčíková, A., Fröhlich, K., Tóth, L., Pécz, B., Brunner, F., Wurfl, J., Hashizume, T., and Kuzmík, J.: Threshold voltage controllability and stability in InGaN/AlGaIn/GaN MOS HEMTs. In: GaN Marathon 2.0. Padova 2018.

Ťapajna, M., Drobny, J., Guemann, F., Hušeková, K., Hashizume, T., and Kuzmík, J.: Impact of oxide/barrier fixed charge on threshold voltage instabilities in AlGaIn/GaN metal-oxide-semiconductor heterostructures. In: Inter. Workshop on Nitride Semicond. (IWN 2018) Kanazawa 2018.

Tóth, L., Cora, I., Fogarassy, Z., Pécz, B., Hasenöhrl, S., Seifertová, A., and Kuzmík, J.: TEM study of InGaIn/AlGaIn/GaN normally-off MOS HEMT structures. In: Inter. Workshop on Nitride Semicond. (IWN 2018) Kanazawa 2018.

Gregušová, D., Hasenöhrl, S., Stoklas, R., Haščík, Š., Pohorelec, O., Seifertová, A., Blaho, M., Laurenčíková, A., Tóth, L., Pécz, B., and Kuzmík, J.: InGaIn/AlGaIn/GaN normally-off MOS HEMT with etched access region. In: Inter. Workshop on Nitride Semicond. (IWN 2018) Kanazawa 2018.

B. Pécz, L. Tóth, I. Cora, M. Ťapajna, K. Fröhlich, J. Kuzmík: Structural study of Al₂O₃ dielectric films deposited by ALD onto AlGaIn/GaN heterostructure, EMRS 2018, Warsaw, September 17-18, 2018.

Programy: Bilaterálne - iné

6.) Vývoj nových vodivých priehľadných 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	áno
koordinátorom projektu:	
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských	1 - Turecko: 1
inštitúcií:	
Čerpané financie:	SAV: 25000 €

Dosiahnuté výsledky:

V rámci projektu TransCoe sme v roku 2018 pripravili podľa harmonogramu projektu tenké priesvitné vrstvy ZnO dopované Al₂O₃. Najlepšie vzorky mali v dennom svetle optickú transparentnosť vyššiu ako 80% a merný odpor 1 mΩcm.

Výsledky prípravy vodivých priesvitných vrstiev Al:ZnO boli prezentované na konferencii:

Fröhlich, K., Mikolášek, M., Krajčír, L., Rosová, A., Šoltýs, J., and Dobročka, E.: Low resistivity Al-doped ZnO films grown by atomic layer deposition. In 7th Inter. Symp. on Transparent Conductive Mater. - TCM. Chania (Crete) 2018.

Programy: ERANET

7.) 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: -
Podpora medzinárodnej spolupráce z národných zdrojov: 14583 €

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: 59052 €
Podpora medzinárodnej spolupráce z národných zdrojov: 4480 €

Dosiahnuté výsledky:

Uskutočnili sme návrh úprav komerčných pásov na báze vysokoteplotných supravodičov, cestou nanosenia vrstvy z epoxidovej živice so zabudovanými zrnieskami SiC. Pre realistické hrúbky vrstiev sme v prostredí výpočtového programu Comsol Multiphysics odhadli vplyv na zníženej teploty pri prechode nadkritického prúdu páskou. Výsledky sme prezentovali na medzinárodnom workshope [1] a boli zaradené aj do prezentácie o aktivitách projektu na vrcholnej svetovej konferencii [2]

[1] Gömöry, F., Mošat', M., Pardo, E., Vojenčiak, M., Lacroix, C., and Sirois, F.: Electro-thermal modelling for optimization of CC tape in DC fault current limiter. In: 6th Inter. Workshop on Numerical Modelling of High Temp. Supercond. Caparica 2018. Výveska.

[2] Tixador, P., Bauer, M., Bruzek, C.-E., Calleja, A., Deutscher, G., Dutoit, B., Gömöry, F., Martini, L., Noe, M., Obradors, X., Pekarcikova, M., and Sirois, F.: Status of EC project FASTGRID. In Applied Supercond. Conf. 2018. Seattle 2018.

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: 59463 € Podpora medzinárodnej spolupráce z národných zdrojov: 6270 €

Dosiahnuté výsledky:

V priebehu sme vyvinuli sme numerický model na predpovedanie striedavých strát v statore supravodivého motora pre letectvo. Vyvinuli sme tiež troj-rozmerný elektromagnetický model pre demagnetizovanie stĺpca v pričnom magnetickom poli.

Výsledky boli prezentované na niekoľkých medzinárodných konferenciách:

Pozvaná prednáška: Pardo, E., Kapolka, M., Grilli, F., and Reis, T.: Multi-physics variational methods for magnet and power applications. In: 6th Inter. Workshop on Numerical Modelling of High Temp. Supercond. Caparica 2018.

Pardo, E., Li, S., Kováč, J., Vojenčiak, M., Grilli, F., and Reis, T.: AC loss in stator windings of superconducting motors. In Applied Supercond. Conf. 2018. Seattle 2018.

Kapolka, M., Pardo, E., Patel, A., and Grilli, F.: 3D modelling of cross-field demagnetisation in stacks of tapes. In: 6th Inter. Workshop on Numerical Modelling of High Temp. Supercond. Caparica 2018.

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: 14751 € Podpora medzinárodnej spolupráce z národných zdrojov: 6272 €

Dosiahnuté výsledky:

V priebehu roka 2018 boli na EIÚ SAV charakterizované supravodivé parametre vzoriek Nb vrstiev deponovaných na Cu podložkách, ktorých povrch bol pred nanosením Nb vrstvy opracovaný rôznymi mechanickými a elektro-chemickými metódami. Materiály boli pripravené na troch

rôznych partnerských pracoviskách. Na časti vzoriek bol tiež študovaný vplyv žihania už nanesej Nb vrstvy pomocou laserového lúča. Okrem Nb vrstiev boli charakterizované aj prvé vzorky tenkých vrstiev NbN a Nb₃Sn.

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

Zodpovedný riešiteľ:	Michal Vojenčiak
Trvanie projektu:	1.1.2014 / 31.12.2018
Evidenčné číslo projektu:	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: 2003 € Podpora medzinárodnej spolupráce z národných zdrojov: 4480 €

Dosiahnuté výsledky:

V roku 2018 sme v rámci konzorcia Eurofusion plnili úlohy zamerané na využitie vysokoteplotných supravodivých vodičov v magnetickom systéme budúcich jadrových fúzných reaktorov. V rámci hodnotenia kvality súčasných komerčných supravodivých vodičov sme charakterizovali závislosť veľkosti kritického prúdu na aplikovanom magnetickom poli. Pri tomto meraní sme použili aplikované magnetické pole až do 12 T a charakterizácia bola prevedená pomocou transportného elektrického prúdu.

Taktiež sme urobili konceptuálny návrh vodiča pre vinutie centrálneho solenoidu, pričom sme použili vodič typu CORC.

Výsledky boli prezentované na stretnutí riešiteľov projektu.

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: 3002 €

Dosiahnuté výsledky:

Schluck, J., Feilhauer, J., Pierz, K., Schumacher, H.W., Kazazis, D., Gennser, U., and Heinzl, T.: Quantum signatures of competing electron trajectories in antidot superlattices, Phys. Rev. B 98 (2018) 165415.

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: 10397 €

Dosiahnuté výsledky:

Fröhlich, K., Kundrata, I., Blaho, M., Precner, M., Ťapajna, M., Klimo, M., Šuch, O., and Škvarek, O.: Performance of HfO_x- and TaO_x-based resistive switching structures in circuits for min and max functions implementation, MRS Adv. 3 (2018) Iss. 59, 3427-3432.

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: 7468 €

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: 11090 €

Dosiahnuté výsledky:

Kúdela, R., Šoltýs, J., Kučera, M., Stoklas, R., Gucmann, F., Blaho, J., Mičušík, M., Pohorelec, O., Gregor, M., Brytavskiy, I.V., Dobročka, E., and Gregušová, D.: Technology and application of in-situ AlO_x layers on III-V semiconductors, Applied Surface Sci 461 (2018) 33-38.

Stoklas, R., Gregušová, D., Hasenöhrl, S., Brytavskiy, I.V., Ťapajna, M., Fröhlich, , Haščík, Š., Gregor, M., and Kuzmík, J.: Characterization of interface states in AlGa_N/Ga_N metal-oxide-semiconductor heterostructure field-effect transistors with HfO₂ gate dielectric grown by atomic layer deposition, Applied Surface Sci 461 (2018) 255-259.

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: 3201 €

Dosiahnuté výsledky:

Mikolášek, M., Fröhlich, K., Hušeková, K., Racko, J., Rehacek, V., Chymo, F., Ťapajna, M., and Harmatha, L.: Silicon based MIS photoanode for water oxidation: a comparison of RuO₂ and Ni Schottky contacts, Applied Surface Sci 461 (2018) 48-53.

Huran, J., Boháček, P., Sasinková, V., Kleinová, A., Kobzev, A.P., Kováčová, E., Sekáčová, M., and Arbet, J.: Amorphous silicon carbide films with wide range of phosphorus concentration: Structural and electrical properties. In Proc. 6th Conf. on Advances in Electron. Photon. Technol. – ADEPT. Bratislava: FEI STU 2018. P. 216-219. ISBN 978-80-554-1450-8.

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: 6337 €

Dosiahnuté výsledky:

Zápražný, Z., Korytár, D., Jergel, M., Halahovets, Yu., Ferrari, C., Frigeri, C., Dobročka, E., Keckes, J., and Hagara, J.: Towards x-ray crystal channel-cut monochromators prepared by nano-machining technique, *Mater. Struct.* 25 (2018) 75-78.

Dobročka, E., Hasenöhrl, S., Chauhan, P., and Kuzmík, J.: Non-conventional scans in high-resolution X-ray diffraction analysis of epitaxial systems, *Applied Surface Sci* 461 (2018) 23-32.

Jergel, M., Halahovets, Yu., Maťko, I., Korytár, D., Zápražný, Z., Hagara, J., Nádaždy, P., Šiffalovič, P., Kečkeš, J., and Majková, E.: Finishing of Ge nanomachined surfaces for X-ray crystal optics, *Inter. J. Advanced Manufact. Technol.* 96 (2018) 3603–3617.

Korytár, D., Zápražný, Z., Ferrari, C., Frigeri, C., Jergel, M., Maťko, I., and Kečkeš, M.: Cross-sectional TEM study of subsurface damage in SPDT machining of germanium optics, *Applied Optics* 57 (2018) 1940-1943. IF 1.791, Q SJR 1

7.) Kompozitný supravodič MgB₂ na báze difúznej metódy (*Composite superconductor MgB₂ made by internal Mg diffusion*)

Zodpovedný riešiteľ:	Pavol Kováč
Trvanie projektu:	1.1.2016 / 31.12.2018
Evidenčné číslo projektu:	2/0129/16
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 13202 €

Dosiahnuté výsledky:

Kováč, J., Kulich, M., Kopera, L., and Kováč, P.: AC losses of Rutherford MgB₂ cables made by powder-in-tube and internal magnesium diffusion processes, *Supercond. Sci Technol.* 31 (2018) 125014.

Kováč, P., Hušek, I., Kulich, M., Kováč, J., Melišek, T., Kopera, L., and Pachla, W.: Multi-core MgB₂ wire with a Ti barrier and a reinforced Al+Al₂O₃ sheath, *Supercond. Sci Technol.* 31 (2018) 095006.

Kováč, P., Hušek, I., Rosová, A., Kulich, M., Kováč, J., Melišek, T., Kopera, L., Balog, M., and Krížik, P.: Ultra-lightweight superconducting wire based on Mg, B, Ti and Al, *Sci Reports* 8 (2018) 11229.

Rosová, A., Hušek, I., Kulich, M., Melišek, T., Kováč, P., Dobročka, E., Kopera, L., Scheiter, J., and Haessler, W.: Microstructure of undoped and C-doped MgB₂ wires prepared by an internal magnesium diffusion technique using different B powders, *J. Alloys Comp.* 764 (2018) 437e445.

8.) 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: 9242 €

9.) 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: 11312 €

10.) 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: 3631 €

Dosiahnuté výsledky:

Osvald, J.: Fast and slow traps in $\text{Al}_2\text{O}_3/(\text{GaN})/\text{AlGaIn}/\text{GaIn}$ heterostructures studied by conductance technique. *Physica E* 97 (2018) 126-129.

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: 21949 €

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 áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 9935 €

Dosiahnuté výsledky:

Novák, J., Laurenčíková, A., Eliáš, P., Hasenöhrl, S., Sojková, M., Dobročka, E., Kováč, J.jr., Kováč, J., Ďurišová, J., and Pudiš, D.: Nanorods and nanocones for advanced sensor applications, *Applied Surface Sci* 461 (2018) 61-65.

Novák, J., Laurenčíková, A., Eliáš, P., Hasenöhrl, S., Sojková, M., Vávra, I., Kováč, J.jr., and Kováč, J.: Deposition and properties of sulphide compounds on Gallium Phosphide nanocones. In *Proc. 6th Conf. on Advances in Electron. Photon. Technol. – ADEPT*. Bratislava: FEI STU 2018. ISBN 978-80-554-1450-8. P. 37-40.

Hotový, I., Spiess, L., Sojková, M., Kostič, I., Mikolášek, M., Predanocy, M., Romanus, H., Hulman, M., and Řeháček, V.: Structural and optical properties of WS₂ prepared using sulfurization of different thick sputtered tungsten films, *Applied Surface Sci* 461 (2018) 133-138.

13.) Senzory na báze nosníkových štruktúr (Cantilever based sensors)

Zodpovedný riešiteľ: Ján Šoltýs
Trvanie projektu: 1.1.2015 / 31.12.2018
Evidenčné číslo projektu: 2/0183/15
Organizácia je áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 9242 €

Dosiahnuté výsledky:

Mruczkiewicz, M., Gruszecki, P., Krawczyk, M., and Guslienko, K.Y.: Azimuthal spin-wave excitations in magnetic nanodots over the soliton background: Vortex, Bloch, and Néel-like skyrmions, *Phys. Rev. B* 97 (2018) 064418.

Šoltýs, J., Precner, M., Fedor, J., Cambel, V.: Tailored SPM probes for Dual-tip force microscopy, *Proceedings NanoCon 2017 - 9th International Conference on Nanomaterials*, Brno, 2018, pp. 759-764.

14.) Perovskitovské tenké vrstvy a štruktúry vhodné pre modernú 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: 7096 €

Dosiahnuté výsledky:

Chromik, Š., Španková, M., Talacko, M., Dobročka, E., and Lalinský, T.: Some peculiarities at preparation of Bi₄Ti₃O₁₂ films for bolometric applications, *Applied Surface Sci* 461 (2018) 39-43.

Nurgaliev, T., Štrbík, V., Gál, N., Chromik, Š., and Sojková, M.: Electrical transport effects in YBCO/LSMO bilayer junctions, *Physica B* 550 (2018) 324-331.

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

Zodpovedný riešiteľ: Jaroslav Tóvik
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: 6005 €

16.) Vysokoteplotná charakterizácia, integrácia a spoľahlivosť MEMS senzorov tlaku na báze AlGaIn/GaN (*High temperature characterization, integration and reliability of MEMS pressure sensors based on AlGaIn/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: 4621 €

Dosiahnuté výsledky:

Babchenko, O., Vanko, G., Gerbec, M., Ižák, T., Vojs, M., Lalinský, T., and Kromka, A.: Study on electronic properties of diamond/SiNx-coated AlGaIn/GaN high electron mobility transistors

operating up to 500 °C, Diamond Related Mater. 89 (2018) 266-272.

Zehetner, J., Kasemann, S., Vanko, G., and Babchenko, O.: Black titanium dioxide in situ generated on femtosecond laser induced periodic surface structures. In: ASDAM 2018. Eds. J. Breza et al. IEEE 2018. ISBN 978-1-5386-7488-8. P. 203-206.

17.) 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 áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: VEGA SAV: 3928 €

Dosiahnuté výsledky:

Dubecký, F., Kindl, D., Hubík, P., Mičušík, M., Boháček, P., Sekáčová, M., Zaťko, B., Gombia, E., Kováč, J., and Nečas, V.: Study of metal/semi-insulating GaAs/metal contacts: symmetrical geometry. In Proc. 6th Conf. on Advances in Electron. Photon. Technol. – ADEPT. Bratislava: FEI STU 2018. ISBN 978-80-554-1450-8. P. 17-20.

Zaťko, B., Hrubčín, L., Šagátová, A., Osvald, J., Boháček, P., Zápražný, Z., Sedlačková, K., Sekáčová, M., Dubecký, F., Skuratov, V.A., Korytár, D., and Nečas, V.: Schottky barrier detectors based on high quality 4H-SiC semiconductor: electrical and detection properties, Applied Surface Sci 461 (2018) 276-280.

Šagátová, A., Zaťko, B., Nečas, V., Dubecký, F., Tu, L.A., Sedlačková, K., Boháček, P., and Zápražný, Z.: From single GaAs detector to sensor for radiation imaging camera, Applied Surface Sci 461 (2018) 3-9.

Sedlačková, K., Zaťko, B., Šagátová, A., Nečas, V., Boháček, P., and Sekáčová, M.: Comparison of semi-insulating GaAs and 4H-SiC-based semiconductor detector covered by LiF film for thermal neutron detection, Applied Surface Sci 461 (2018) 242-248.

Programy: APVV

18.) 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 áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských 2 - Slovensko: 2
inštitúcií:
Čerpané financie: APVV: 69000 €

Dosiahnuté výsledky:

Mruczkiewicz, M., Gruszecki, P., Krawczyk, M., and Gusliencko, K.Y.: Azimuthal spin-wave excitations in magnetic nanodots over the soliton background: Vortex, Bloch, and Néel-like skyrmions, Phys. Rev. B 97 (2018) 064418.

Neilinger, P., Ščepka, T., Mruczkiewicz, M., Dérier, J., Manca, D., Dobročka, E., Samardak, A.S., Grajcar, M., and Cambel, V.: Ferromagnetic resonance study of sputtered Pt/Co/Pt multilayers, Applied Surface Sci 461 (2018) 202-205.

19.) Štruktúry odporového prepínania pre rozpoznávanie vzorov (*Resistive switching structures for pattern recognition*)

Zodpovedný riešiteľ:	Karol Fröhlich
Trvanie projektu:	1.7.2015 / 30.6.2018
Evidenčné číslo projektu:	14-0560
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 37214 €

Dosiahnuté výsledky:

Fröhlich, K., Kundrata, I., Blaho, M., Precner, M., Ťapajna, M., Klimo, M., Šuch, O., and Škvarek, O.: Hafnium oxide and tantalum oxide based resistive switching structures for realization of minimum and maximum functions, J. Applied Phys. 124 (2018) 152109.

Fröhlich, K., Kundrata, I., Blaho, M., Precner, M., Ťapajna, M., Klimo, M., Šuch, O., and Škvarek, O.: Performance of HfO_x- and TaO_x-based resistive switching structures in circuits for min and max functions implementation, MRS Adv. 3 (2018) Iss. 59, 3427-3432.

Mošková, A. and Moško, M.: States-conserving density of states for Altshuler-Aronov effect: Heuristic derivation, Solid State Comm. 284-286 (2018) 56-61.

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: 73035 €

Dosiahnuté výsledky:

Solov'ov, M. and Gömöry, F.: Magnetization of superconducting tube computed in 3D geometry using A-formulation in Comsol Multiphysics. In: 6th Inter. Workshop on Numerical Modelling of High Temp. Supercond. Caparica 2018. Výveska.

Solovyov, M., Kucharovič, M., Šouc, J., and Gömöry, F.: Replacing the bulk superconductor tube in AC magnetic shield by a multilayer CC tape structure. In: Workshop on Coated Conductors for Applications 2018. Vienna 2018. Výveska.

Solovyov, M., Kucharovič, M., Šouc, J., and Gömöry, F.: CC tape arrangement in superconducting part of the magnetic cloak. In Applied Supercond. Conf. 2018. Seattle 2018. Výveska.

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 áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: APVV: 73619 €

Dosiahnuté výsledky:

Hotový, I., Spiess, L., Sojková, M., Kostič, I., Mikolášek, M., Predanocy, M., Romanus, H., Hulman, M., and Řeháček, V.: Structural and optical properties of WS₂ prepared using sulfurization of different thick sputtered tungsten films, Applied Surface Sci 461 (2018) 133-138.

Skákalová, V., Kotrusz, P., Jergel, M., Susi, T., Mittelberger, A., Vretenár, V., Šiffalovič, P., Kotakoski, J., Meyer, J.C., and Hulman, M.: Chemical oxidation of graphite: evolution of the structure and properties, J. Phys. Chem. C 122 (2018) 929-935.

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 áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských 1 - Slovensko: 1
inštitúcií:
Čerpané financie: APVV: 72410 €

Dosiahnuté výsledky:

Nurgaliev, T., Štrbík, V., Gál, N., Chromik, Š., and Sojková, M.: Electrical transport effects in YBCO/LSMO bilayer junctions, Physica B 550 (2018) 324-331.

Chromik, Š., Španková, M., Talacko, M., Dobročka, E., and Lalinský, T.: Some peculiarities at preparation of Bi₄Ti₃O₁₂ films for bolometric applications, Applied Surface Sci 461 (2018) 39-43.

Zehetner, J., Kasemann, S., Vanko, G., and Babchenko, O.: Black titanium dioxide in situ generated on femtosecond laser induced periodic surface structures. In: ASDAM 2018. Eds. J. Breza et al. IEEE 2018. ISBN 978-1-5386-7488-8. P. 203-206.

23.) Ultraľahký kompozitný supravodič na báze Mg, B, Ti a Al (*Ultra light composite superconductor based on Mg, B, Ti and Al*)

Zodpovedný riešiteľ: Pavol Kováč
Trvanie projektu: 1.7.2015 / 31.12.2018
Evidenčné číslo projektu: 14-0522
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 58412 €

Dosiahnuté výsledky:

Kováč, J., Kulich, M., Kopera, L., and Kováč, P.: AC losses of Rutherford MgB_2 cables made by powder-in-tube and internal magnesium diffusion processes, *Supercond. Sci Technol.* 31 (2018) 125014.

Kováč, P., Hušek, I., Kulich, M., Kováč, J., Melišek, T., Kopera, L., and Pachla, W.: Multi-core MgB_2 wire with a Ti barrier and a reinforced $\text{Al}+\text{Al}_2\text{O}_3$ sheath, *Supercond. Sci Technol.* 31 (2018) 095006.

Kováč, P., Hušek, I., Rosová, A., Kulich, M., Kováč, J., Melišek, T., Kopera, L., Balog, M., and Krížik, P.: Ultra-lightweight superconducting wire based on Mg, B, Ti and Al, *Sci Reports* 8 (2018) 11229.

Rosová, A., Hušek, I., Kulich, M., Melišek, T., Kováč, P., Dobročka, E., Kopera, L., Scheiter, J., and Haessler, W.: Microstructure of undoped and C-doped MgB_2 wires prepared by an internal magnesium diffusion technique using different B powders, *J. Alloys Comp.* 764 (2018) 437e445.

Kováč, P., Hušek, I., Kulich, M., Kováč, J., Melišek, T., Kopera, L., Perez, N., Haessler, W., Balog, M., Krížik, P., and Berek, D.: Lightweight MgB_2 wires with a high temperature aluminum sheath made of variable purity Al powder and Al_2O_3 content, *Supercond. Sci Technol.* 31 (2018) 085003.

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: 63000 €

Dosiahnuté výsledky:

Kúdela, R., Šoltýs, J., Kučera, M., Stoklas, R., Gucmann, F., Blaho, J., Mičušík, M., Pohorelec, O., Gregor, M., Brytavskiy, I.V., Dobročka, E., and Gregušová, D.: Technology and application of in-situ AlOx layers on III-V semiconductors, *Applied Surface Sci* 461 (2018) 33-38.

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 inštitúcií: 0
Čerpané financie: APVV: 25000 €

Dosiahnuté výsledky:

Chvála, A., Nagy, L., Marek, J., Priesol, J., Donoval, D., Blaho, M., Gregušová, D., Kuzmík, J., and Šatka, A.: Characterization of monolithic InAlN/GaN NAND logic cell supported by circuit and device simulations, IEEE Trans. Electron Devices 65 (2018) 2666-2669.

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: 83334 €

Dosiahnuté výsledky:

Dobročka, E., Hasenöhrl, S., Chauhan, P., and Kuzmík, J.: Non-conventional scans in high-resolution X-ray diffraction analysis of epitaxial systems, Applied Surface Sci 461 (2018) 23-32.

Gucmann F., Ťapajna M., Pohorelec O., Haščík Š., Hušeková K., Kuzmík J.: Creation of Two-Dimensional Electron Gas and Role of Surface Donors in III-N Metal-Oxide-Semiconductor High-Electron Mobility Transistors, Phys. Stat. Sol. A (2018) 1800090.

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

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

Vertical GaN transistor with insulating channel and the method of forming the same, PCT prihláška no.PCT/SK2018/000009.

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

Zodpovedný riešiteľ: Zoltán Lenčes
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: 12000 €

28.) 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: VEGA SAV: 25000 €

Dosiahnuté výsledky:

Zápražný, Z., Korytár, D., Jergel, M., Halahovets, Yu., Ferrari, C., Frigeri, C., Dobročka, E., Keckes, J., and Hagara, J.: Towards x-ray crystal channel-cut monochromators prepared by nano-machining technique, *Mater. Struct.* 25 (2018) 75-78.

Jergel, M., Halahovets, Yu., Mat'ko, I., Korytár, D., Zápražný, Z., Hagara, J., Nádaždy, P., Šiffalovič, P., Kečkés, J., and Majková, E.: Finishing of Ge nanomachined surfaces for X-ray crystal optics, *Inter. J. Advanced Manufact. Technol.* 96 (2018) 3603–3617.

Korytár, D., Zápražný, Z., Ferrari, C., Frigeri, C., Jergel, M., Mat'ko, I., and Kečkés, M.: Cross-sectional TEM study of subsurface damage in SPDT machining of germanium optics, *Applied Optics* 57 (2018) 1940-1943.

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

Zodpovedný riešiteľ: Nad'a Mrk'vková
Zodpovedný riešiteľ v organizácii SAV: Martin Hulman
Trvanie projektu: 1.8.2018 / 30.6.2022
Evidenčné číslo projektu: 17-0352

Organizácia je nie
koordinátorom projektu:
Koordinátor: Centrum pre využitie pokročilých materiálov SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: APVV: 1619 €

30.) 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 nie
koordinátorom projektu:
Koordinátor: Žilinská univerzita
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: APVV: 23412 €

Dosiahnuté výsledky:

Novák, J., Laurenčíková, A., Eliáš, P., Hasenöhrl, S., Sojková, M., Dobročka, E., Kováč, J.jr., Kováč, J., Ďurišová, J., and Pudiš, D.: Nanorods and nanocones for advanced sensor applications, *Applied Surface Sci* 461 (2018) 61-65.

Novák, J., Laurenčíková, A., Eliáš, P., Hasenöhrl, S., Sojková, M., Vávra, I., Kováč, J.jr., and Kováč, J.: Deposition and properties of sulphide compounds on Gallium Phosphide nanocones. In *Proc. 6th Conf. on Advances in Electron. Photon. Technol. – ADEPT*. Bratislava: FEI STU 2018. ISBN 978-80-554-1450-8. P. 37-40.

Lettrichová, I., Laurenčíková, A., Pudiš, D., Novák, J., Goraus, M., Kováč, J.jr., Gaso, P., and Nevrela, J.: 2D periodic structures patterned on 3D surfaces by interference lithography for SERS, *Applied Surface Sci* 461 (2018) 171-174.

Laurenčíková, A., Eliáš, P., Hasenöhrl, S., Kováč, J.jr., Szobolovszký, R., and Novák, J.: GaP nanocones covered with silver nanoparticles for surface-enhanced Raman spectroscopy, *Applied Surface Sci* 461 (2018) 149-153.

Laurenčíková, A., Hasenöhrl, S., Eliáš, P., Kováč, J.jr., Szobolovszký, R., and Novák, J.: Ag decorated GaP nanocones for SERS. In *Proc. 6th Conf. on Advances in Electron. Photon. Technol. – ADEPT*. Bratislava: FEI STU 2018. ISBN 978-80-554-1450-8. P. 204-207.

Lettrichová, I., Laurenčíková, A., Pudiš, D., Novák, J., Goraus, M., Kováč, J.jr., Gaso, P., and Nevrela, J.: 2D periodic structures patterned on GaP nanocones by interference lithography. In *Proc. 6th Conf. on Advances in Electron. Photon. Technol. – ADEPT*. Bratislava: FEI STU 2018. ISBN 978-80-554-1450-8. P. 41-44.

31.) Univerzálna nanoštrukturovaná platforma pre interdisciplinárne použitie (*Universal nanorod platform for interdisciplinary applications*)

Zodpovedný riešiteľ: Jozef Novák
Trvanie projektu: 1.7.2015 / 31.12.2018
Evidenčné číslo projektu: 14-0297
Organizácia je áno

koordinátorom projektu:

Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 70530 €

Dosiahnuté výsledky:

Kúdela, R., Šoltýs, J., Kučera, M., Stoklas, R., Gucmann, F., Blaho, J., Mičušík, M., Pohorelec, O., Gregor, M., Brytavskiy, I.V., Dobročka, E., and Gregušová, D.: Technology and application of in-situ AlOx layers on III-V semiconductors, *Applied Surface Sci* 461 (2018) 33-38.

Lettrichová, I., Laurenčíková, A., Pudiš, D., Novák, J., Goraus, M., Kováč, J.jr., Gaso, P., and Nevrela, J.: 2D periodic structures patterned on 3D surfaces by interference lithography for SERS, *Applied Surface Sci* 461 (2018) 171-174.

Laurenčíková, A., Eliáš, P., Hasenöhrl, S., Kováč, J.jr., Szobolovszký, R., and Novák, J.: GaP nanocones covered with silver nanoparticles for surface-enhanced Raman spectroscopy, *Applied Surface Sci* 461 (2018) 149-153.

Laurenčíková, A., Hasenöhrl, S., Eliáš, P., Kováč, J.jr., Szobolovszký, R., and Novák, J.: Ag decorated GaP nanocones for SERS. In *Proc. 6th Conf. on Advances in Electron. Photon. Technol. – ADEPT*. Bratislava: FEI STU 2018. ISBN 978-80-554-1450-8. P. 204-207.

Lettrichová, I., Laurenčíková, A., Pudiš, D., Novák, J., Goraus, M., Kováč, J.jr., Gaso, P., and Nevrela, J.: 2D periodic structures patterned on GaP nanocones by interference lithography. In *Proc. 6th Conf. on Advances in Electron. Photon. Technol. – ADEPT*. Bratislava: FEI STU 2018. ISBN 978-80-554-1450-8. P. 41-44.

Novák, J., Laurenčíková, A., Eliáš, P., Hasenöhrl, S., Sojková, M., Dobročka, E., Kováč, J.jr., Kováč, J., Ďurišová, J., and Pudiš, D.: Nanorods and nanocones for advanced sensor applications, *Applied Surface Sci* 461 (2018) 61-65.

Novák, J., Laurenčíková, A., Eliáš, P., Hasenöhrl, S., Sojková, M., Vávra, I., Kováč, J.jr., and Kováč, J.: Deposition and properties of sulphide compounds on Gallium Phosphide nanocones. In *Proc. 6th Conf. on Advances in Electron. Photon. Technol. – ADEPT*. Bratislava: FEI STU 2018. ISBN 978-80-554-1450-8. P. 37-40.

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:

Nagasaki, Y., Solovyov, M., and Gömöry, F.: Experimental and numerical investigation of shielding performance of superconducting magnetic shields using coated conductor tapes, IEEE Trans. Applied Supercond. 28 (2018) 6601905.

Solovyov, M. and Gömöry, F.: Magnetization of superconducting tube computed in 3D geometry using A-formulation in Comsol Multiphysics. In: 6th Inter. Workshop on Numerical Modelling of High Temp. Supercond. Caparica 2018. Výveska.

Soloviov, M., Kucharovič, M., Šouc, J., and Gömöry, F.: Replacing the bulk superconductor tube in AC magnetic shield by a multilayer CC tape structure. In: Workshop on Coated Conductors for Applications 2018. Vienna 2018. Výveska.

Soloviov, M., Kucharovič, M., Šouc, J., and Gömöry, F.: CC tape arrangement in superconducting part of the magnetic cloak. In Applied Supercond. Conf. 2018. Seattle 2018. Výveska.

33.) Štúdium metód návrhu a zhotovenia cievok z vodiča s kruhovým prierezom na báze vysokoteplotného supravodiča (*Investigation of design and manufacturing methods for coils from round high-temperature superconducting conductor*)

Zodpovedný riešiteľ: Ján Šouc
Trvanie projektu: 1.7.2015 / 31.12.2018
Evidenčné číslo projektu: 14-0438
Organizácia je áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 55798 €

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

Zodpovedný riešiteľ: Milan Ľapajna
Zodpovedný riešiteľ v organizácii SAV: Martin Hulman
Trvanie projektu: 1.8.2018 / 30.6.2022
Evidenčné číslo projektu: 17-0560
Organizácia je nie
koordinátorom projektu:
Koordinátor: Centrum pre využitie pokročilých materiálov SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 5179 €

35.) Širokopásmový MEMS detektor terahertzového žiarenia (*Broadband MEMS detector of terahertz radianon*)

Zodpovedný riešiteľ: Gabriel Vanko
Trvanie projektu: 1.7.2015 / 30.6.2018
Evidenčné číslo projektu: 14-0613
Organizácia je áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV

Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 40463 €

Dosiahnuté výsledky:

Osvald, J., Lalinský, T., and Vanko, G.: High temperature current transport in gate oxides based (GaN)/AlGaIn/GaN Schottky diodes, *Applied Surface Sci* 461 (2018) 206-211.

Chromik, Š., Španková, M., Talacko, M., Dobročka, E., and Lalinský, T.: Some peculiarities at preparation of Bi₄Ti₃O₁₂ films for bolometric applications, *Applied Surface Sci* 461 (2018) 39-43.

Programy: SASPRO

36.) Návrh a príprava hybridných štruktúr na báze diamantu a nitridu gália (*Design and Fabrication of Diamond-on-GaN Hybrid Structures for MEMS*)

Zodpovedný riešiteľ: Oleg Babchenko
Trvanie projektu: 1.5.2015 / 30.4.2018
Evidenčné číslo projektu: 0068/01/01
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 14962 €

37.) Spinové vlny v exotických štruktúrach (*Waves in exotic spin textures*)

Zodpovedný riešiteľ: Michal Mruczkiewicz
Trvanie projektu: 4.1.2016 / 31.12.2018
Evidenčné číslo projektu: 1244/02/01
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 49067 €

Dosiahnuté výsledky:

Mruczkiewicz, M., Gruszecki, P., Krawczyk, M., and Guslienko, K.Y.: Azimuthal spin-wave excitations in magnetic nanodots over the soliton background: Vortex, Bloch, and Néel-like skyrmions, *Phys. Rev. B* 97 (2018) 064418.

Neilinger, P., Ščepka, T., Mruczkiewicz, M., Dérier, J., Manca, D., Dobročka, E., Samardak, A.S., Grajcar, M., and Cambel, V.: Ferromagnetic resonance study of sputtered Pt/Co/Pt multilayers, *Applied Surface Sci* 461 (2018) 202-205.

38.) Pinning v komerčných coated vodičoch (*Pinning in commercial coated conductors*)

Zodpovedný riešiteľ: Eugen Seiler

Trvanie projektu: 1.1.2016 / 31.12.2018
Evidenčné číslo projektu: 1633/03/01-b
Organizácia je áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: SAV: 67695 €

39.) Tepelno-elektrická stabilita supravodičov pri nekonvenčných spôsoboch chladenia
(Thermo-electrical stability of superconductors in unconventional cooling conditions)

Zodpovedný riešiteľ: Michal Vojenčiak
Trvanie projektu: 1.4.2015 / 31.3.2018
Evidenčné číslo projektu: 0061/01/01
Organizácia je áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: SAV: 36850 €

Príloha C**Publikačná činnosť organizácie (generovaná z ARL)****ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných**

- ADCA01 BABCHENKO, Oleg - VANKO, Gabriel - GERBOC, Michal - IŽÁK, T. - VOJS, M. - LALINSKÝ, Tibor - KROMKA, A. Study on electronic properties of diamond/SiNx-coated AlGaN/GaN high electron mobility transistors operating up to 500 °C. In Diamond and Related Materials, 2018, vol. 89, p. 266-272. (2.232 - IF2017). (2018 - Current Contents). ISSN 0925-9635.
- ADCA02 BALOG, Martin - ROSOVÁ, Alica - SZUNDIOVÁ, Barbora - OROVČÍK, Ľubomír - KRÍŽIK, Peter - ŠVEC, Peter Jr. - KULICH, Miloslav - KOPERA, Ľubomír - KOVÁČ, Pavol - HUŠEK, Imrich - IBRAHIM, Ahmed Mohamed Hassan. HITEMAL-an outer sheath material for MgB2 superconductor wires: the effect of annealing at 595–655 °C on the microstructure and properties. In Materials and Design, 2018, vol. 157, p. 12-23. (4.525 - IF2017). (2018 - Current Contents). ISSN 0261-3069.
- ADCA03 CIGÁŇ, Alexander - LOBOTKA, Peter - DVUREČENSKIJ, Andrej - ŠKRÁTEK, Martin - RADNÓCZI, G. - MAJEROVÁ, Melinda - CZIGÁNY, Zs. - MAŇKA, Ján - VÁVRA, Ivo - MIČUŠÍK, Matej. Characterization and magnetic properties of nickel and nickel-iron nanoparticle colloidal suspensions in imidazolium-based ionic liquids prepared by magnetron sputtering. In Journal of Alloys and Compounds, 2018, vol. 768, p. 625-634. (3.779 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 0925-8388.
- ADCA04 CUBERO, A. - NAVARRO, R. - KOVÁČ, Pavol - KOPERA, Ľubomír - RINDFLEISCH, M. - MARTINEZ, E. Quench dynamics in MgB2 Rutherford cables. In Superconductor Science and Technology, 2018, vol. 31, no. 045009. (2.861 - IF2017). (2018 - Current Contents). ISSN 0953-2048.
- ADCA05 DOBROČKA, Edmund - HASENÖHRL, Stanislav - CHAUHAN, Prerna - KUZMÍK, Ján. Non-conventional scans in high-resolution X-ray diffraction analysis of epitaxial systems. In Applied Surface Science, 2018, vol. 461, p. 23-32. (4.439 - IF2017). (2018 - Current Contents). ISSN 0169-4332.
- ADCA06 DRIENOVSKÝ, M. - MICHALCOVÁ, E. - PEKARČÍKOVÁ, M. - PALCUT, M. - FROLEK, Ľubomír - GOGOLA, P. - JANČUŠKA, I. - MIŠÍK, J. - GÖMÖRY, Fedor. Induction soldering of coated conductor high-temperature superconducting tapes with lead-free solder alloys. In IEEE Transactions on Applied Superconductivity, 2018, vol. 28, no. 6601305. (1.288 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.
- ADCA07 FRÖHLICH, Karol - KUNDRATA, Ivan - BLAHO, Michal - PRECNER, Marián - ĎAPAJNA, Milan - KLIMO, Martin - ŠUCH, Ondrej - ŠKVAREK, Ondrej. Hafnium oxide and tantalum oxide based resistive switching structures for realization of minimum and maximum functions. In Journal of Applied Physics, 2018, vol. 124, no. 152109. (2.176 - IF2017). (2018 - Current Contents). ISSN 0021-8979.
- ADCA08 GUCMANN, Filip - ĎAPAJNA, Milan - POHORELEC, Ondrej - HAŠČÍK, Štefan - HUŠEKOVÁ, Kristína - KUZMÍK, Ján. Creation of two-dinesional electron gas and role of surface donors in III-N metal-oxide-semiconductor high-electron mobility transistors. In Physica Status Solidi A : applications and materials science, 2018, vol. 215, no. 1800090. (1.795 - IF2017). (2018 - Current Contents). ISSN 1862-6300.
- ADCA09 HASHIZUME, T. - NISHIGUCHI, K. - KANEKI, S. - KUZMÍK, Ján - YATABE, Z. State of the art on gate insulation and surface passivation for GaN-based power

- HEMTs. In Materials science in semiconductor processing, 2018, vol. 78, p. 85-95. (2.593 - IF2017). (2018 - Current Contents). ISSN 1369-8001.
- ADCA10 HONG, Z. - LI, W. - CHEN, Yanjun - GÖMÖRY, Fedor - FROLEK, Lubomír - ZHANG, M. - SHENG, J. Design optimization of superconducting coils based on asymmetrical characteristics of REBCO tapes. In Physica C. Superconductivity and its applications, 2018, vol. 550, p. 74-77. (1.453 - IF2017). (2018 - Current Contents). ISSN 0921-4534.
- ADCA11 HOTOVÝ, I. - SPIESS, L. - SOJKOVÁ, Michaela - KOSTIČ, Ivan - MIKOLÁŠEK, M. - PREDANOCY, M. - ROMANUS, H. - HULMAN, Martin - REHACEK, V. Structural and optical properties of WS₂ prepared using sulfurization of different thick sputtered tungsten films. In Applied Surface Science, 2018, vol. 461, p. 133-138. (4.439 - IF2017). (2018 - Current Contents). ISSN 0169-4332.
- ADCA12 HRUBČÍN, Ladislav - GUROV, J.B. - ZAŤKO, Bohumír - IVANOV, O.M. - MITROFANOV, S.V. - ROZOV, S.V. - SANDUKOVSKY, V.G. - SEMIN, V.A. - SKURATOV, V.A. A study of the radiation hardness of Si and SiC detectors using a Xe ion beam. In Instruments and Experimental Techniques, 2018, vol. 61, iss. 6, p. 769-771. (0.613 - IF2017). (2018 - Current Contents). ISSN 0020-4412.
- ADCA13 HRUBČÍN, Ladislav - GUROV, J.B. - ZAŤKO, Bohumír - MITROFANOV, S.V. - ROZOV, S.V. - SEDLAČKOVÁ, K. - SANDUKOVSKY, V.G. - SEMIN, V.A. - NEČAS, V. - SKURATOV, V.A. Characteristics of Si and SiC detectors at registration of Xe ions. In Journal of Instrumentation, 2018, vol. 13, no. P11005. (1.258 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 1748-0221.
- ADCA14 CHEN, D.-X. - PARDO, Enric - ZHU, Y.-H. - XIANG, L.-X. - DING, J.-Q. Demagnetizing correction in fluxmetric measurements of magnetization curves and hysteresis loops of ferromagnetic cylinders. In Journal of Magnetism and Magnetic Materials, 2018, vol. 449, p. 447-454. (3.046 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 0304-8853.
- ADCA15 CHEN, D.-X. - ZHU, Y.-H. - XIANG, L.-X. - DING, J.-Q. - PARDO, Enric. Calibration of a permeameter for measuring soft magnetic materials using long cylindrical samples characterized by demagnetizing-corrected solenoid method. In Journal of Magnetism and Magnetic Materials, 2018, vol. 458, p. 137-146. (3.046 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 0304-8853.
- ADCA16 CHROMIK, Štefan - ŠPANKOVÁ, Marianna - TALACKO, Marcel - DOBROČKA, Edmund - LALINSKÝ, Tibor. Some peculiarities at preparation of Bi₄Ti₃O₁₂ films for bolometric applications. In Applied Surface Science, 2018, vol. 461, p. 39-43. (4.439 - IF2017). (2018 - Current Contents). ISSN 0169-4332.
- ADCA17 CHVÁLA, A. - NAGY, L. - MAREK, J. - PRIESOL, J. - DONOVAL, D. - BLAHO, Michal - GREGUŠOVÁ, Dagmar - KUZMÍK, Ján - ŠATKA, A. Characterization of monolithic InAlN/GaN NAND logic cell supported by circuit and device simulations. In IEEE Transactions on Electron Devices, 2018, vol. 65, p. 2666-2669. (2.620 - IF2017). (2018 - Current Contents). ISSN 0018-9383.
- ADCA18 JERSEL, Matej - HALAHOVETS, Yuriy - MAŤKO, Igor - KORYTÁR, Dušan - ZÁPRAŽNÝ, Zdenko - HAGARA, Jakub - NÁDAŽDY, Peter - ŠIFFALOVÍČ, Peter - KEČKÉŠ, Jozef - MAJKOVÁ, Eva. Finishing of Ge nanomachined surfaces for X-ray crystal optics. In International Journal of Advanced Manufacturing Technology, 2018, vol. 96, p. 3603-3617. (2.601 - IF2017). (2018 - Current Contents). ISSN 0268-3768.
- ADCA19 KAPOLKA, Milan - ZERMONO, V. - ZOU, S. - MORANDI, A. - RIBANI, P. - PARDO, Enric - GRILLI, F. Three-dimensional modeling of the magnetization of superconducting rectangular-based bulks and tape stacks. In IEEE Transactions on Applied Superconductivity, 2018, vol. 28, no. 8201206. (1.288 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.

- ADCA20 KAPOLKA, Milan - SRPCIC, J. - ZHOU, D. - AINSLIE, M.D. - PARDO, Enric - DENNIS, Anthony R. Demagnetization of cubic Gd-Ba-Cu-O bulk superconductor by crossed-fields: measurements and three-dimensional modeling. In IEEE Transactions on Applied Superconductivity, 2018, vol. 28, no. 6801405. (1.288 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.
- ADCA21 KORYTÁR, Dušan - ZÁPRAŽNÝ, Zdenko - FERRARI, C. - FRIGERI, C. - JERGEL, Matej - MAŤKO, Igor - KEČKÉŠ, Jozef. Cross-sectional TEM study of subsurface damage in SPDT machining of germanium optics. In Applied Optics, 2018, vol. 57, p. 1940-1943. (1.791 - IF2017). (2018 - Current Contents). ISSN 0003-6935.
- ADCA22 KOVÁČ, Ján - KULICH, Miloslav - KOPERA, Ľubomír - KOVÁČ, Pavol. AC losses of Rutherford MgB₂ cables made by powder-in-tube and internal magnesium diffusion processes. In Superconductor Science and Technology, 2018, vol. 31, no. 12, art. no. 125014. (2.861 - IF2017). (2018 - Current Contents). ISSN 0953-2048.
- ADCA23 KOVÁČ, Pavol - KOPERA, Ľubomír - KOVÁČ, Ján - HAIN, Miroslav - MELIŠEK, Tibor - KULICH, Miloslav - HUŠEK, Imrich. Rutherford cable made of internal magnesium diffusion MgB₂ wires sheathed with Al-Al₂O₃ particulate metal matrix composite. In Superconductor Science and Technology, 2018, vol. 31, no. 015015. (2.861 - IF2017). (2018 - Current Contents). ISSN 0953-2048.
- ADCA24 KOVÁČ, Pavol - HUŠEK, Imrich - KULICH, Miloslav - KOVÁČ, Ján - MELIŠEK, Tibor - KOPERA, Ľubomír - PEREZ, N. - HAESSLER, W. - BALOG, Martin - KRÍŽIK, Peter - BEREK, Dušan. Lightweight MgB₂ wires with a high temperature aluminum sheath made of variable purity Al powder and Al₂O₃ content. In Superconductor Science and Technology, 2018, vol. 31, no. 085003. (2.861 - IF2017). (2018 - Current Contents). ISSN 0953-2048. (Vega č. 2/0025/14 : Príprava a štúdium nových typov kompozitov na báze Al pripravených in situ metódami práškovej metalurgie).
- ADCA25 KOVÁČ, Pavol - HUŠEK, Imrich - KULICH, Miloslav - KOVÁČ, Ján - MELIŠEK, Tibor - KOPERA, Ľubomír - PACHLA, W. Multi-core MgB₂ wire with a Ti barrier and a reinforced Al+Al₂O₃ sheath. In Superconductor Science and Technology, 2018, vol. 31, no. 095006. (2.861 - IF2017). (2018 - Current Contents). ISSN 0953-2048.
- ADCA26 KOVÁČ, Pavol - HUŠEK, Imrich - ROSOVÁ, Alica - KULICH, Miloslav - KOVÁČ, Ján - MELIŠEK, Tibor - KOPERA, Ľubomír - BALOG, Martin - KRÍŽIK, Peter. Ultra-lightweight superconducting wire based on Mg, B, Ti and Al. In Scientific Reports, 2018, vol. 8, no. 11229. (4.122 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 2045-2322.
- ADCA27 KÚDELA, Róbert - ŠOLTÝS, Ján - KUČERA, Michal - STOKLAS, Roman - GUCMANN, Filip - BLAHO, Michal - MIČUŠÍK, Matej - POHORELEC, Ondrej - GREGOR, M. - BRYTAVSKYI, E. - DOBROČKA, Edmund - GREGUŠOVÁ, Dagmar. Technology and application of in-situ AlO_x layers on III-V semiconductors. In Applied Surface Science, 2018, vol. 461, p. 33-38. (4.439 - IF2017). (2018 - Current Contents). ISSN 0169-4332.
- ADCA28 LAURENČÍKOVÁ, Agáta - ELIÁŠ, Peter - HASENÖHRL, Stanislav - KOVÁČ, Jaroslav Jr. - SZOBOLOVSZKÝ, R. - NOVÁK, Jozef. GaP nanocones covered with silver nanoparticles for surface-enhanced Raman spectroscopy. In Applied Surface Science, 2018, vol. 461, p. 149-153. (4.439 - IF2017). (2018 - Current Contents). ISSN 0169-4332.
- ADCA29 LETTRICHOVÁ, I. - LAURENČÍKOVÁ, Agáta - PUDIŠ, D. - NOVÁK, Jozef - GORAUS, M. - KOVÁČ, Jaroslav Jr. - GASO, P. - NEVŘELA, J. 2D periodic structures patterned on 3D surfaces by interference lithography for SERS. In Applied Surface Science, 2018, vol. 461, p. 171-174. (4.439 - IF2017). (2018 - Current

- Contents). ISSN 0169-4332.
- ADCA30 MICHALCOVÁ, E. - BEHULOVÁ, M. - VOJENČIAK, Michal - FROLEK, Lubomír - ŠOUC, Ján - SKARBA, M. - PEKARČÍKOVÁ, M. - DRIENOVSKÝ, M. - GÖMÖRY, Fedor. Structural modeling of REBCO coated conductor tapes in TORT cables. In IEEE Transactions on Applied Superconductivity, 2018, vol. 28, no. 4801105. (1.288 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.
- ADCA31 MIKOLÁŠEK, M. - FRÖHLICH, Karol - HUŠEKOVÁ, Kristína - RACKO, J. - REHACEK, V. - CHYMO, F. - ĽAPAJNA, Milan - HARMATHA, L. Silicon based MIS photoanode for water oxidation: a comparison of RuO₂ and Ni Schottky contacts. In Applied Surface Science, 2018, vol. 461, p. 48-53. (4.439 - IF2017). (2018 - Current Contents). ISSN 0169-4332.
- ADCA32 MOŠKOVÁ, Antónia - MOŠKO, Martin. States-conserving density of states for Altshuler-Aronov effect: Heuristic derivation. In Solid State Communications, 2018, vol. 284-286, p. 56-61. (1.549 - IF2017). (2018 - Current Contents). ISSN 0038-1098.
- ADCA33 MRUCZKIEWICZ, Michal - GRUSZECKI, P. - KRAWCZYK, M. - GUSLIENKO, K.Y. Azimuthal spin-wave excitations in magnetic nanodots over the soliton background: Vortex, Bloch, and Néel-like skyrmions. In Physical Review B, 2018, vol. 97, no. 064418. (3.813 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 1550-235X.
- ADCA34 NAGASAKI, Y. - SOLOVYOV, Mykola - GÖMÖRY, Fedor. Experimental and numerical investigation of shielding performance of superconducting magnetic shields using coated conductor tapes. In IEEE Transactions on Applied Superconductivity, 2018, vol. 28, no. 6601905. (1.288 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.
- ADCA35 NEILINGER, P. - ŠČEPKA, Tomáš - MRUCZKIEWICZ, Michal - DÉRER, Ján - MANCA, Daniel - DOBROČKA, Edmund - SAMARDAK, A.S. - GRAJCAR, Miroslav - CAMBEL, Vladimír. Ferromagnetic resonance study of sputtered Pt/Co/Pt multilayers. In Applied Surface Science, 2018, vol. 461, p. 202-205. (4.439 - IF2017). (2018 - Current Contents). ISSN 0169-4332.
- ADCA36 NOVÁK, Jozef - LAURENČÍKOVÁ, Agáta - ELIÁŠ, Peter - HASENÖHRL, Stanislav - SOJKOVÁ, Michaela - DOBROČKA, Edmund - KOVÁČ, Jaroslav Jr. - KOVÁČ, Jaroslav - ĎURIŠOVÁ, J. - PUDIŠ, D. Nanorods and nanocones for advanced sensor applications. In Applied Surface Science, 2018, vol. 461, p. 61-65. (4.439 - IF2017). (2018 - Current Contents). ISSN 0169-4332.
- ADCA37 NURGALIEV, T. - ŠTRBÍK, Vladimír - GÁL, Norbert - CHROMIK, Štefan - SOJKOVÁ, Michaela. Electrical transport effects in YBCO/LSMO bilayer junctions. In Physica B: Condensed Matter, 2018, vol. 550, p. 324-331. (1.453 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 0921-4526.
- ADCA38 OSVALD, Jozef - LALINSKÝ, Tibor - VANKO, Gabriel. High temperature current transport in gate oxides based (GaN)/AlGaN/GaN Schottky diodes. In Applied Surface Science, 2018, vol. 461, p. 206-211. (4.439 - IF2017). (2018 - Current Contents). ISSN 0169-4332.
- ADCA39 OSVALD, Jozef. Fast and slow traps in Al₂O₃/(GaN)/AlGaN/GaN heterostructures studied by conductance technique. In Physica E : low-dimensional system and nanostructure, 2018, vol. 97, p. 126-129. (2.399 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 1386-9477.
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Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Semestrálne cvičenia:

Semináre:

Terénne cvičenia:

doc. Ing. Jozef Novák, DrSc.

Názov semestr. predmetu: Integrovaná fotonika

Počet hodín za semester: 2

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav elektroniky a fotoniky

RNDr. Vladimír Štrbík, CSc.

Názov semestr. predmetu: Základné elektrické charakteristiky tenkých vrstiev a supravodivých slabých väzieb

Počet hodín za semester: 3

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav jadrového a fyzikálneho inžinierstva

Individuálne prednášky:

doc. Ing. Jozef Novák, DrSc.

Názov semestr. predmetu: Integrovaná fotonika

Počet hodín za semester: 2

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav elektroniky a fotoniky

doc. Ing. Jozef Novák, DrSc.

Názov semestr. predmetu: Materiály pre fotoniku

Počet hodín za semester: 2

Názov katedry a vysokej školy: Žilinská univerzita v Žiline, Elektrotechnická fakulta ŽU

Ing. Gabriel Vanko, PhD.

Názov semestr. predmetu: MEMS - inteligentné senzory a aktuátory

Počet hodín za semester: 5

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav elektroniky a fotoniky

Mgr. Bohumír Zatl'ko, PhD

Názov semestr. predmetu: Jadrová elektronika (spracovanie signálov z detektora)

Počet hodín za semester: 2

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav jadrového a fyzikálneho inžinierstva

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					Fedor Gömöry	4
					Ján Kuzmík	6
					Michal Mruczkiewicz	3
Bulharsko					Vladimír Štrbík	5
Česko	František Dubecký	3			Oleg Babchenko	6
					Karol Fröhlich	1
					Martin Hulman	1
					Gabriel Vanko	5
Estónsko	Jana Brndiarová	10				
Francúzsko					Prerna Chauhan	9
Grécko					Ján Kuzmík	10
Izrael	Štefan Chromik	10			Karol Fröhlich	4
					Karol Fröhlich	6
Japonsko					Dagmar Gregušová	8
					Michal Vojenčiak	6
Kanada					Fedor Gömöry	5
Lotyšsko					Rastislav Ries	5
					Eugen Seiler	5
Maďarsko					Peter Lobotka	5
Nemecko					Karol Fröhlich	3
					Fedor Gömöry	2
					Fedor Gömöry	3

					Pavol Kováč	6
					Ivan Kandrata	43
					Peter Lobotka	3
					Marek Mošat'	3
					Alica Rosová	5
					Michal Vojenčiak	3
Poľsko	Štefan Chromik	3			Michal Mruczkiewicz	10
	Marianna Španková	3				
Portugalsko					Karol Fröhlich	3
Rakúsko					Jana Brndiarová	1
					Juraj Feilhauer	1
					Juraj Feilhauer	1
					Pavol Kováč	1
					Ján Kuzmík	1
					Pavol Mozola	1
					Peter Šichman	1
					Milan Ťapajna	1
Rusko					Konstantin Bublikov	17
					Daniel Machajdík	87
					Bohumír Zat'ko	13
Španielsko					Štefan Chromik	5
					Ivan Kandrata	5
					Michal Mruczkiewicz	5
					Michal Mruczkiewicz	5
					Marianna Španková	5
Švajčiarsko					Ján Šoltýs	3

				Jaroslav Tóbik	3
Taliansko				Michal Vojenčiak	3
USA				Ján Fedor	20
				Fedor Gömöry	3
				Marián Precner	20
Veľká Británia				Anang Dadhich	3
				Milan Kapolka	3
				Enric Pardo	3
				Milan Ťapajna	3
Počet vyslaní spolu	5	29		55	392

(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
Irán					Juybari A.G.	240
Japonsko					Nagasaki Y.	76
Poľsko	Camargo B.	5			Zenant M.	30
	Gierlowski P.	5				
Rusko					Sadovnikov A.V.	30
Turecko					Inanir F.	30
					Yildiz S.	30
Ukrajina					Brytavskyi J.	8
USA					Karapetrov G.	184
Veľká Británia					Wang Y.	14
					Weng F.	14
Počet prijatí spolu	2	10			10	656

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Česko	A18	Tomáš Kujovič	1
		Edita Mikulášová	1
		Marek Mošat'	1
		Rastislav Ries	1
		Michal Vrbovský	1
	ELEKTRO	Michal Vojenčiak	3
	HeyDis	Martin Hulman	5

	JVC17	Jozef Novák	5
	SSC	Karol Fröhlich	2
Grécko	TCM	Karol Fröhlich	5
Japonsko	ICMOVPE	Jozef Novák	9
	ISS 2018	Michal Vojenčiak	3
	IWN2018	Dagmar Gregušová	7
		Stanislav Hasenöhrl	7
		Prerna Chauhan	7
		Ján Kuzmík	7
		Jozef Osvald	7
		Roman Stoklas	8
		Milan Ťapajna	7
Nemecko	MSE 2018	Pavol Kováč	4
	WODIM 2018	Karol Fröhlich	4
Poľsko	EMRS Fall M	Ivan Kandrata	6
	ESM	Konstantin Bublikov	12
	ISGN 7	Stanislav Hasenöhrl	6
	MRW	Milan Ťapajna	3
Portugalsko	ANM 2018	Ján Šoltýs	3
	HTS Model 2018	Fedor Gömöry	5
		Enric Pardo	5
		Mykola Soloviov	5
	HTS School	Anang Dadhich	7
		Tomáš Kujovič	7
		Edita Mikulášová	7
		Marek Mošat'	7
		Rastislav Ries	7
Rakúsko	CCA 2018	Fedor Gömöry	4
		Milan Kapolka	4
		Tomáš Kujovič	4
		Shuo Li	4
		Edita Mikulášová	4
		Marek Mošat'	4
		Rastislav Ries	4
		Eugen Seiler	4
		Mykola Soloviov	4
		Ján Šouc	4
		Michal Vojenčiak	4
	esas	Anang Dadhich	5
		Fedor Gömöry	5
		Tomáš Kujovič	5
		Edita Mikulášová	5
		Marek Mošat'	5
		Rastislav Ries	5
	IWEPNM	Jana Brndiarová	8
		Michaela Sojková	8
	IWSPGRM	Jana Brndiarová	6
Španielsko	GrapWeek	Jana Brndiarová	5
		Martin Hulman	5
		Michaela Sojková	5

	MECHCOMP 2018	Pavol Kováč	6
	Sol-SkyMag	Michal Mruczkiewicz	11
Švajčiarsko	RaW	Martin Hulman	4
Taliansko	GaN	Dagmar Gregušová	5
Turecko	ICSM	Norbert Gál	7
		Marcel Talacko	7
Ukrajina	IASMg	Michal Mruczkiewicz	6
	ICN	Michal Mruczkiewicz	4
USA	ASC	Fedor Gömöry	8
		Enric Pardo	8
		Mykola Soloviov	8
	ICM 2018	Jaroslav Tóvik	3
	MRS	Karol Fröhlich	8
Veľká Británia	ICEC27/ICMC 2018	Pavol Kováč	5
	WiBaS	Ján Kuzmík	5
Spolu	35	72	381

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

Skratky použité v tabuľke C:

A18 - Ampér 2018

ANM 2018 - Advanced NanoMaterials 2018

ASC - Applied Superconductivity Conference 2018

CCA 2018 - Workshop on Coated Conductors for Applications 2018

ELEKTRO - 12th International Conference ELEKTRO 2018

EMRS Fall M - 2018 European Materials Research Society Fall Meeting

esas - 2018 ESAS/EASITrain Summer School on Applied Superconductivity

ESM - 2018 European School on Magnetism

GaN - GaN Marathon 2.0

GrapWeek - Graphene Week 2018

HeyDis - 51st Heyrovský Discussion

HTS Model 2018 - 6th Workshop on Numerical Modelling of High Temperature Superconductors

HTS School - 2nd International School on Numerical Modelling for Applied Superconductivity

IASMg - 3rd International Advanced School on Magnonics2018

ICEC27/ICMC 2018 - 27th International Cryogenic Engineering Conference/International Cryogenic Materials Conference

ICM 2018 - 21st International Conference on Magnetism

ICMOVPE - 19th International Conference on Metalorganic Vapor Phase Epitaxy

ICN - 2018 IEEE 8th International Conference on Nanomaterials: Applications & Properties

ICSM - 6th International Conference on Superconductivity and Magnetism

ISGN 7 - International Symposium on Growth of III-Nitrides 2018

ISS 2018 - 31st International Symposium on Superconductivity

IWEPNM - 32nd International Winterschool on: Electronic Properties of Novel Materials: "Molecular nanostructures"

IWN2018 - International Workshop on Nitride Semiconductors

IWSPGRM - International Winterschool on Structural Properties of Graphene and Related Materials

JVC17 - 17th Joint Vacuum Conference

MECHCOMP 2018 - 4th International Conference on Mechanics of Composites

MRS - 2018 MRS Spring Meeting & Exhibit

MRW - 8th Microwave and Radar Week 2018

MSE 2018 - Materials Science and Engineering Congress

RaW - 3rd Raman Workshop

Sol-SkyMag - 3rd International Conference on Nanomagnetism and Spintronics

SSC - 13th International Conference on Solid State Chemistry

TCM - 7th International Symposium on Transparent Conductive Materials

WiBaS - 9th Wide Bandgap Semiconductor and Components Workshop

WODIM 2018 - 20th Workshop on Dielectrics in Microelectronics

Príloha F**Vedecko-popularizačná činnosť pracovníkov organizácie SAV**

Meno	Spoluautori	Typ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
RNDr. Vladimír Cambel, DrSc.	M. Ťapajna	RO	Elektrotechnika mení náš svet	Rádio Slovensko, Veda SK	3.11.2018
Mgr. Juraj Feilhauer, PhD.	B. Hergelová	TL	Lietanie bez krídel	Quark 05/2018	30.5.2018
doc. Ing. Fedor Gömöry, DrSc.		TL	Keď veda narazí na stranícku politiku	SME	30.8.2018
doc. Ing. Fedor Gömöry, DrSc.		PB	Mágia supravodičov	Klarinet Cafe Internet Gallery	19.3.2018
doc. Ing. Fedor Gömöry, DrSc.		TV	Reflex (00:17:11)	TV Markíza	4.4.2018
doc. Ing. Fedor Gömöry, DrSc.		TL	Ústavom SAV treba otvoriť priestor	Pravda	23.7.2018
Ing. Ján Kuzmík, DrSc.		IN	Vysokobezpečný GaN MOS spínací tranzistor	Veda na dosah (CVTI)	5.3.2018
Mgr. Enric Pardo, PhD.		IN	Čisté a tiché lietadlá nie sú len hudbou budúcnosti	Veda na dosah (CVTI)	21.3.2018
Ing. Ján Šoltýs, PhD		PB	Nanotechnológia, neviditeľná revolúcia	ZŠ Karpatská, Žilina	13.2.2018
Ing. Ján Šoltýs, PhD		PB	Nanotechnológie - od modernej kozmetiky až po obnoviteľné zdroje energie	Univerzita tretieho veku Žilinská univerzita v Žiline	13.2.2018
RNDr. Marianna Španková, PhD	M. Blaho, L. Frolek, D. Gregušová, E. Kováčová, M. Mošat', O. Pohorelec, F. E. Pörsök, P. Šichman, R. Ries, M. Sojková, R. Stoklas, M. Ťapajna	iné	Európska noc výskumníkov 2018	Bratislava	28.9.2018
RNDr. Marianna Španková, PhD	M. Blaho, V. Cambel, E. Dobročka, P. Eliáš, K. Fröhlich, L. Frolek, N. Gál, M. Gerboc, D. Gregušová, S. Hasenöhrl, P. Hutár, Š. Chromik, M. Kapolka, J.	EX	DOD	EIÚ SAV	6.11.2018

	Kováč, E. Kováčová, T. Kujovič, E. Mikulášová, M. Mošať, M. Precner, F. E.-Pörsök, R. Ries, E. Seiler, M. Sojková, R. Stoklas, P. Šichman, T. Ščepka, J. Šoltýs, V. Štrbik, M. Talacko, M. Ťapajna, G. Vanko, B. Zaťko				
Ing. Milan Ťapajna, PhD.	L. Frolek, D. Gregušová, O. Pohorelec, E. Seiler, R. Stoklas, P. Šichman	PB	Víkend so SAV	Primaciálne nám. Bratislava	8.9.2018
Ing. Michal Vojenčiak, PhD.		PB	Voda	Škola pre mimoriadne nadané deti Teplická	20.4.2018
Ing. Michal Vojenčiak, PhD.	M. Mošať	PB	Misie na Mars	Spojená škola Novohradská, Bratislava	18.5.2018

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