Elektrotechnický ústav SAV, v. v. i.

E L Ú

S A V

Výročná správa o činnosti a hospodárení za rok 2023

Bratislava
február 2024

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Elektrotechnický ústav SAV, v. v. i.

Výročná správa o činnosti organizácie za rok 2023

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Elektrotechnický ústav SAV, v. v. i.
Riaditeľ: RNDr. Vladimír Cambel, DrSc.
1. zástupca riaditeľa: Ing. Milan Ťapajna, PhD.
2. zástupca riaditeľa: Ing. Ján Fedor, PhD.
Vedecký tajomník: RNDr. Marianna Španková, PhD
Predseda vedeckej rady: RNDr. Dagmar Gregušová, DrSc.
Člen Snemu SAV: Ing. Milan Ťapajna, PhD.
Adresa: Dúbravská cesta 9, 841 04 Bratislava

http://www.elu.sav.sk

Tel.: 02/ 5922 2555
E-mail: elusav@savba.sk

Názvy a adresy organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

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

Vedúci organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

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

Členovia Snemu SAV za organizačné zložky:
nie sú

Typ organizácie: Verejná výskumná inštitúcia od roku 2022

1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

Štruktúra zamestnancov	K	K		K do 35 rokov		F	P	T	O
		M	Ž	M	Ž				
Celkový počet zamestnancov	116	82	34	20	8	111	86.16	67.79	10.3
Vedeckí pracovníci	64	53	11	11	3	61	50.48	49.48	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci[1])	24	16	8	8	5	23	12.01	12.01	2.4
Odborní pracovníci VŠ (ostatní zamestnanci[2])	6	2	4	0	0	6	5.3	0.5	1
Odborní pracovníci ÚS	18	10	8	1	0	17	14.05	5.8	6.9
Ostatní pracovníci	4	1	3	0	0	4	4.32	0	0

[1] *odmeňovaní podľa 553/2003 Z.z., príloha č. 5*
[2] *odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4*

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2023 (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 31.12.2023 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)
P – celoročný priemerný prepočítaný počet zamestnancov
T – celoročný priemerný prepočítaný počet riešiteľov projektov
O – celoročný priemerný prepočítaný počet obslužného personálu podieľajúceho sa na riešení projektov (technikov, laborantov, projektových manažérov a pod.) mimo zamestnancov v administratíve, správe a údržbe budov, upratovačiek, vodičov a pod.
M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2023)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	8	42	0	4	8	31	14
Ženy	2	9	0	1	2	6	3

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

Veková štruktúra (roky)	< 31		31-35		36-40		41-45		46-50		51-55		56-60		61-65		> 65	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Muži	8	5.3	11	7.7	10	8.4	7	7.0	8	7.7	1	1.0	4	4.0	4	3.4	19	11.6
Ženy	3	1.2	4	2.4	1	1.0	2	2.0	0	0.0	1	1.0	1	1.0	4	3.6	3	1.8

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

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2023

	Kmeňoví zamestnanci	**Vedeckí pracovníci**	**Riešitelia projektov**
Muži	49.2	49.4	48.6
Ženy	52.1	48.7	47.6
Spolu	50.0	49.3	48.4

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

V roku 2023 prebehla na ústave voľba vedúcich oddelení na obdobie 5 rokov (v apríli 2023). V troch oddeleniach zostali staronoví vedúci, v jednom máme nového vedúceho

- Oddelenie Supravodičov – E. Pardo
- Oddelenie Fyziky a technológie nanoštruktúr – M. Hulman
- Oddelenie Mikroelektroniky a senzoriky – B. Zaťko
- v Oddelení III-V polovodičov bol zvolený nový vedúci - F. Gucmann

2. Vedecko-výskumná činnosť – projekty, výsledky

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2023

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
			A				B	
	A	B	Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty VEGA	13	1	-	-	145390	153554	-	3845
2. Projekty APVV	10	8	-	-	386095	302732	-	183451
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	1	1	-	-	187393	187393	-	7263
4. Projekty SASPRO, MoRePro, IMPULZ	1	0	42448	42448	-	-	-	-
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	5	0	36598	36598	-	-	-	-

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

Tabuľka 2b Domáce projekty podané v roku 2023

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2023	-	5	
2. Projekty výziev EŠIF podané r. 2023	Bratislava	1	1
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2023

Tabuľka 2c Medzinárodné projekty riešené v roku 2023

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
			A				B	
	A	B	Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty Horizont 2020 a Horizont Európa	0	4	-	-	-	-	16427	221485
2. Projekty ERA.NET, ESA, JRP	1	1	11597	11597	-	-	6250	3708
3. Projekty COST	0	2	-	-	-	-	5000	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	4	-	-	-	-	102934	155360
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD, Mobility, Open Mobility	0	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	3	0	33751	33751	-	-	-	-
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	0	0	-	-	-	-	-	-
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	-	-	-	-	-	-
10. Iné projekty	0	0	-	-	-	-	-	-

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

2.2.2. Medzinárodné projekty Horizont Európa podané v roku 2023

Tabuľka 2d Počet projektov Horizont Európa v roku 2023

	A	B
Počet podaných projektov Horizont Európa		

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

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

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

2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2023

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

2.3.1. Výsledky na báze základného výskumu

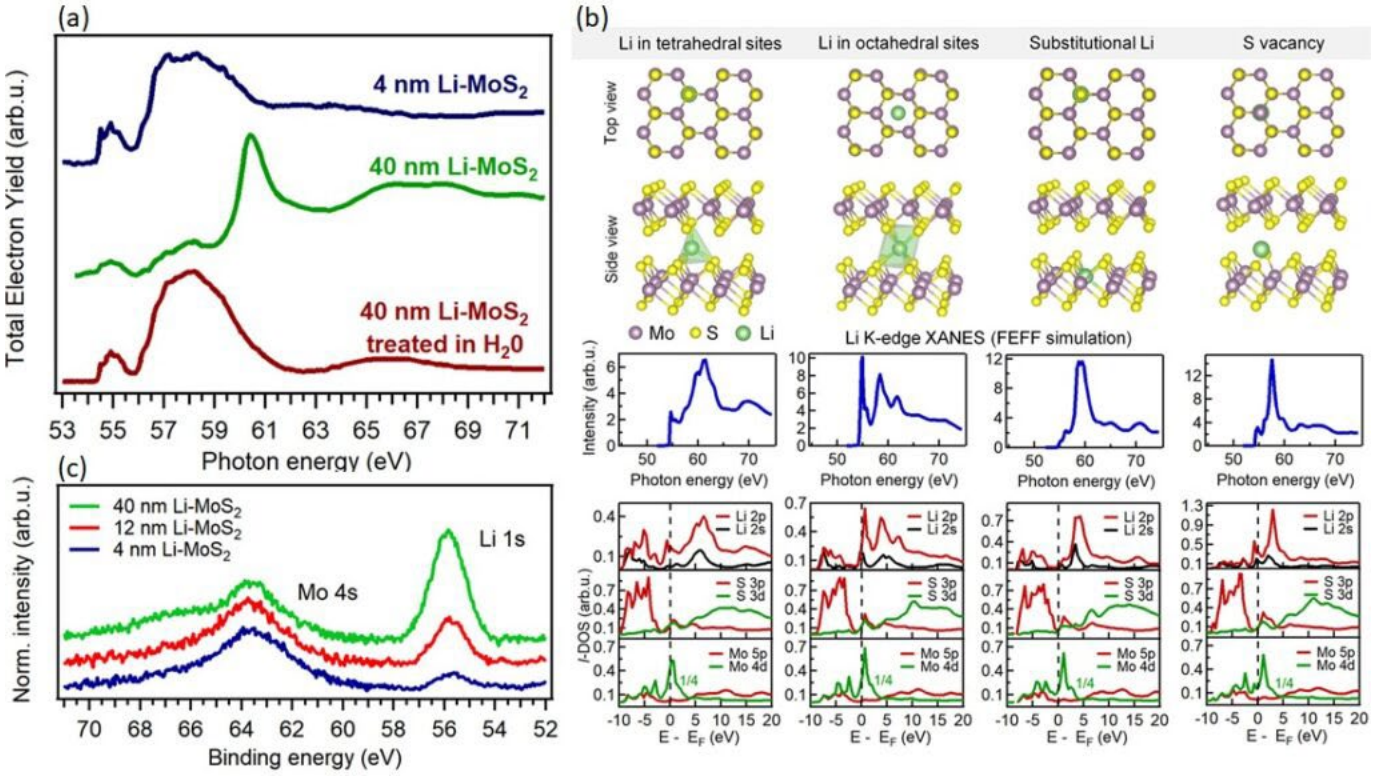
Názov: Vplyv lítia na rast ultratenkých vrstiev MoS_2
Riešitelia: M. Sojková, J. Hrdá, T. Vojteková, L. Pribusová Slušná, M. Hulman
Projekt: APVV-19-0365, VEGA 2/0059/21

Pri našom výskume sme sa sústredili na sledovanie vplyvu lítia na rast ultratenkých vrstiev disulfidu molybdénu (MoS_2). Pozitívny vplyv lítia sa už ukázal pri zvýšenom katalytickom výkone MoS_2 vrstiev dopovaných lítiom pri produkcii vodíka a redukcii CO_2. Dopovanie lítiom má tiež potenciál zlepšiť technológiu lítiových batérií.

MoS_2 je vrstvený materiál, ktorý možno pripraviť vo forme jednej alebo len niekoľkých vrstiev. Vďaka svojim zaujímavým vlastnostiam a širokej škále možných aplikácií je tento materiál predmetom rozsiahleho štúdia. Interkalácia je jedným zo spôsobov, ako ovplyvňovať fyzikálne, chemické a elektronické vlastnosti materiálov. Vplyv lítia na rast MoS_2 vrstiev však doteraz nebol úplne preskúmaný.

V našej práci sme použili nový prístup na zabudovanie lítia do MoS_2 vrstiev. Na výrobu MoS_2 používame jednozónovú sulfurizáciu vopred nanesených molybdénových vrstiev. Ako zdroj lítia sme použili sulfid lítny. Štrukturálne analýzy ukazujú pozoruhodný účinok lítia, a to podporu epitaxného a horizontálneho rastu vrstiev. Po žíhaní v prítomnosti Li majú MoS_2 vrstvy tendenciu rásť horizontálne aj pre hrubšie počiatočné vrstvy molybdénu. Najprekvapivejším pozorovaním je konverzia vertikálnych MoS_2 vrstiev na horizontálne po žíhaní v prítomnosti Li. Predpokladáme, že lítium pôsobí ako katalyzátor uľahčujúci túto konverziu.

V našej práci demonštrujeme, že pomocou dopovania lítiom je možné meniť orientáciu bazálnej roviny MoS_2 vo veľmi tenkých vrstvách. Ako už bolo ukázané, vertikálne a horizontálne orientované vrstvy vykazujú odlišné elektronické, chemické a optické vlastnosti. Kontrola nad kryštalografickou orientáciou MoS_2 bude teda rozhodujúca pri navrhovaní zariadení novej generácie obsahujúcich vrstvy MoS_2.



(a) Li K-edge XANES experimentálne spektrá pre Li dopovaný 2H-MoS_2.
(b) Li K-edgeXANES spektrá získané výpočtami FEFF. Hore: fragmenty štrukturálnych modelov pre hexagonálny 2H-MoS_2 s atómami v tetraedrických a oktaedrických intersticiálnych miestach, substitučne dopovaným MoS_2 a s lítiom v blízkosti atómu síry. Stred: simulované Li K-edge XANES spektrá. Dole: vypočítaná orbitálna projektovaná hustota stavov pre Li, S a Mo atómy.
(c) Mo 4s a Li 1s XPS spektrá zo vzoriek MoS_2 dopovaných Li.

Publikácia:
SOJKOVÁ, Michaela** – PÍŠ, I. – HRDÁ, Jana – VOJTEKOVÁ, Tatiana – PRIBUSOVÁ SLUŠNÁ, Lenka – VÉGSO, Karol – ŠIFFALOVIČ, Peter – NÁDAŽDY, Peter – DOBROČKA, Edmund – KRBAL, M. – FONS, P.J. – MUNNIK, F. – MAGNANO, E. – HULMAN, Martin – BONDINO, F.**. Lithium-induced reorientation of few-layer MoS2 films. In Chemistry of Materials, 2023, vol. 35, p. 6246-6257. (2022: 8.6 – IF, Q1 – JCR, 2.869 – SJR, Q1 – SJR). ISSN 0897-4756. Dostupné na: https://doi.org/10.1021/acs.chemmater.3c00669 Typ: ADCA

2.3.2. Výsledky aplikačného typu

Názov: Striedavé straty v supravodivých motoroch pre vodíkovo-elektrické lietadlá
Riešitelia: E. Pardo, J. Kováč
Zadávateľ výskumného kontraktu: AIRBUS UpNext (France)

Komerčná letecká doprava je rastúcim zdrojom emisií skleníkových plynov (CO_2, NO_x a vodná para vo vysokých výškach). Vodíkovo-elektrické lietadlá sa vyznačujú nulovými emisiami CO_2 a v prípade ak elektrickú energiu na palube vyrábajú palivové články, neprodukujú ani oxidy dusíku a vypúšťajú malé množstvá vodnej pary. Z tohto dôvodu dokument Európskej komisie ACARE fly-the-green-deal stanovuje niekoľko cieľov súvisiacich s vodíkovými lietadlami, vrátane certifikovaného lietadla na vodíkový pohon do roku 2035 a výstavby najmenej 100 vodíkových uzlov na európskych letiskách. Z tohto dôvodu má spoločnosť Airbus za cieľ vyvinúť prvé lietadlo na vodíkový pohon do roku 2035, pričom využitie supravodičov v elektrických rozvodoch a pohonných jednotkách predstavuje intenzívne študovanú alternatívu.

Supravodivé motory sú skutočne veľmi sľubné pre budúce vodíkovo-elektrické lietadlá vďaka ich očakávanému vysokému špecifickému výkonu, ktorý by mohol dosiahnuť leteckým priemyslom stanovený cieľ 25 kW/kg. Náš ústav získal kontrakt od spoločnosti Airbus na modelovanie striedavých strát v supravodivom elektromotore a na meranie striedavých strát v páskach z vysokoteplotných supravodičov. Projekt bol úspešne ukončený a priniesol zaujímavé výsledky.

2.3.3. Výsledky na báze medzinárodnej spolupráce

Názov: Supravodiče pre budúce urýchľovače
Projekty: I.FAST, Filaments4Fusion
Riešitelia: F. Gömöry, E. Seiler, R. Ries, M. Soloviov, J. Šouc, T. Kujovič

Tradične sa pásky z vysokoteplotných supravodičov v okrúhlych kábloch navíjajú so striedavou helicitou. Potom sa okraje pásky zdvihnú v dôsledku Poissonovho efektu, čo spôsobí lokálnu nepravidelnosť povrchu a vtlačenie do nasledujúcich vrstiev. Nedávno sme overili, že tento efekt je slabší v prípade zhodných uhlov uloženia, pretože potom okraje pásky vytvárajú odtlačky, ktoré sú rovnobežné s dĺžkou pásky. Nebolo však jasné, ako takéto usporiadanie ovplyvní striedavé straty. Výskumy experimentálnych testov malých laboratórnych modelov a numerického modelovania odhalili, že vplyv geometrie je významný iba v nízkych magnetických poliach. Tam mal najnižšie straty kábel pozostávajúci z párov na sebe naskladaných pások. Na druhej strane, pri podmienkach očakávaných vo vinutí cievky generujúcej magnetické pole sa striedavé straty pre káble s rôznym usporiadaním priblížili k rovnakým hodnotám.
V prípravných prácach na experimentálne overenia bolo potrebné podrobne preštudovať limity mechanického zaťaženia, ktorým pásky pri kabeláži nevyhnutne podliehajú, a význam nehomogenít materiálu ako zdroja nadmernej degradácie kritického prúdu.

Publikácie:
RIES, Rastislav** - HLAVÁČ, Dominik - SOLOVYOV, Mykola - GÖMÖRY, Fedor. Induced delamination in REBCO coated-conductor tape by a scratch line and bending. In Physica C. Superconductivity and its applicacions, 2023, vol. 613, no. 1354358. (2022: 1.7 - IF, Q3 - JCR, 0.423 - SJR, Q2 - SJR). ISSN 0921-4534. Dostupné na: https://doi.org/10.1016/j.physc.2023.1354358

MOŠAŤ, Marek** - ŠOUC, Ján - RIES, Rastislav - GÖMÖRY, Fedor. Longitudinal critical current profiles in coated conductors examined by transport and magnetization measurements. In IEEE Transactions on Applied Superconductivity, 2023, vol. 33, no. 6602205. (2022: 1.8 - IF, Q3 - JCR, 0.536 - SJR, Q2 - SJR). ISSN 1051-8223. Dostupné na: https://doi.org/10.1109/TASC.2023.3264956

GÖMÖRY, Fedor** - ŠOUC, Ján - GODÁR, Michal - HINTZE, Carl, Dr. - GROSSE, V. Analysis of critical current fluctuations as a means of checking the quality of high-temperature superconductor tape slitting. In Superconductor Science and Technology, 2023, vol. 36, art. no. 054001. (2022: 3.6 - IF, Q2 - JCR, 1.191 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: https://doi.org/10.1088/1361-6668/acb73f

KUJOVIČ, Tomáš** - RIES, Rastislav - MOŠAŤ, Marek - GÖMÖRY, Fedor. The critical current of REBCO coated conductors subjected to a mechanical loading at varying angles. In IEEE Transactions on Applied Superconductivity, 2023, vol. 33, no. 5, art. no. 6601004. (2022: 1.8 - IF, Q3 - JCR, 0.536 - SJR, Q2 - SJR). ISSN 1051-8223. Dostupné na: https://doi.org/10.1109/TASC.2023.3242924

SOLOVYOV, Mykola** - ŠOUC, Ján - KUJOVIČ, Tomáš - FROLEK, Lubomír - GÖMÖRY,

Fedor. Magnetization AC losses in multilayer superconducting round cables with coinciding and opposite lay angles. In Superconductor Science and Technology, 2023, vol. 36, no. 034001. (2022: 3.6 - IF, Q2 - JCR, 1.191 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: https://doi.org/10.1088/1361-6668/acb08e

RIES, Rastislav** - GÖMÖRY, Fedor - MOŠAŤ, Marek - KUJOVIČ, Tomáš - HINTZE, Carl, Dr. - GIL, P. Effect of off-axis bending on microstructural and transport properties of coated conductor tape. In Superconductor Science and Technology, 2023, vol. 36, no. 014006. (2022: 3.6 - IF, Q2 - JCR, 1.191 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: https://doi.org/10.1088/1361-6668/aca6ad

GÖMÖRY, F.** - SOLOVYOV, M. - ŠOUC, J. - FROLEK, L. - KUJOVIČ, T. - SEILER, E. - RIES, R. - MOŠAŤ, M. - WINKLER, T. - SUGITA, K. - DHALLÉ, M. - KROOSHOOP, H.J.G. - HINTZE, C. - TROSHYN, A. - PRUSSEIT, W. - NEDERGAARD, L. - TRABERG, L. - CHRISTENSEN, J.J. - JORGENSEN, N.O. - BAHL, C.R.H. - WULFF, A.C.: AC loss reduction in round HTS cables achieved by low-cost filamentization of tape conductors. In IEEE Transactions on Applied Superconductivity, 2024, in press (2022: 1.8 - IF, Q3 - JCR, 0.536 - SJR, Q2 - SJR). ISSN 1051-8223. Dostupné na: https://doi.org/10.1109/TASC.2024.3364133

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2023/ doplnky z r. 2022
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	**0 / 0**
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	**0 / 0**
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	**0 / 0**
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	**0 / 0**
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	**0 / 0**
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	**1 / 0**
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	**0 / 0**
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	**0 / 0**
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	**64 / 1**
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	**7 / 3**
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)	**0 / 0**
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	**12 / 0**
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	**1 / 0**
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	**0**
18. Ostatné vydané periodiká	**0**
19. Zostavovateľské práce knižného charakteru (FAI)	**0 / 0**
20. Preklady vedeckých a odborných textov (EAJ)	**0 / 0**
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)	**0 / 0**
22. Recenzie v časopisoch a zborníkoch (EDI)	**0 / 0**

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

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

Kvartil vedeckého časopisu	**Q1**	**Q2**	**Q3**	**Q4**	**Spolu**
Podľa IF z r. 2022 (zdroj JCR) *Počet článkov / doplnky*	17 / 0	31 / 0	14 / 0	2 / 2	64 / 2
Podľa SJR z r. 2022 (zdroj Scimago) *Počet článkov / doplnky*	38 / 0	25 / 1	1 / 1	7 / 2	71 / 4

Tabuľka 2g Ohlasy

OHLASY	**Počet v r. 2022/ doplnky z r. 2021**
Citácie vo WOS (1.1, 2.1)	1560 / 13
Citácie v SCOPUS (1.2, 2.2)	183 / 26
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	4 / 1
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	84
Prednášky a vývesky na národných vedeckých podujatiach15	15

2.6. Vyžiadané prednášky

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

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

1. Cuninková, E., Frolek, L., Ferenčík, F., Bónová, L., Skarba, M., Hulačová, S., and Pekarčíková, M.: Characterization of a novel TORT cable wound of stabilised striated REBCO tapes with reduced magnetization AC losses. In 36th Inter. Symp. Supercond. (ISS2023). Takina, Wellington, New Zealand 2023.
2. Gömöry, F., Mošať, M., Godár, M., and Šouc, J.: Current and heat transfer in location with reduced critical current in CC tape. In: EUCAS 2023. Bologna 2023.
3. Gömöry, F., Solovyov, M., Mošať, M., Kujovič, T., Šouc, J., Winkler, T., Sugita, K., Dhallé, M., and Krooshoop, H.J.G.: AC loss in round cables with helically arranged HTS tapes. In: 1st High Temp. Supercond. Accelerator Technol. (HiTAT) Workshop. CERN 2023.
4. Gömöry, F., Solovyov, M., Mošať, M., Kujovič, T., Šouc, J., Winkler, T., Sugita, K., Dhallé, M., and Krooshoop, H.J.G.: Could AC loss in coated conductor cables decrease to the level acceptable for pulsed magnets? In: Inter. Workshop on Coated Cond. Appl. – CCA. Houston 2023.
5. Hudec, B., Chang, C.-C., and Hou, T.-H.: Looking under the hood - probing degradation mechanisms of analog memristors by combination of thin film spectroscopy techniques. In: 13th Inter. Conf. Nanomater.: Appl. & Properties - IEEE NAP-2023. Bratislava 2023.
6. Fröhlich, K., Sahoo, P.P., Güneren, A., Hudec, B., Mikolášek, M., Nada, A., Precnerova, M., and Mičušík, M.: Ultrathin atomic layer deposited ZnO films improves perfpormance of the silicon/graphite anode for Li-Ion batteries. In: 13th Inter. Conf. Nanomater.: Appl. & Properties - IEEE NAP-2023. Bratislava 2023.

7. Hulman, M., Sojková, M., Precner, M., Pribusová Slušná, L., Vojteková, T., Hrdá, J., Kačmarčík, J., Moško, M., and Dobročka, E.: Optical and transport properties of polycrystalline thin layers of 2D-TMDC semimetals. In: 13th Inter. Conf. Nanomater.: Appl. & Properties - IEEE NAP-2023. Bratislava 2023.
8. Chromik, Š., Španková, M., Rosová, A., Dobročka, E., Gregor, M., Hrdá, J., Talacko, M., Cordier, Y., Pécz, B., and Giannazzo, F.: MoS_2 and WS_2 two-dimensional systems prepared by pulsed laser deposition and some obstacles at film preparation on different substrates. In: SURFINT-SREN VIII. Bratislava 2023.
9. Mustonen, K., Hofer, C., Kotrusz, P., Markevich, A., Hulman, M., Mangler, C., Susi, T., Pennycook, T.J., Meyer, J.C., Kotakoski, J., and Skákalová, V.: New approaches for new materials: exotic 2D crystals from table-top chemistry. In: 13th Inter. Conf. Nanomater.: Appl. & Properties - IEEE NAP-2023. Bratislava 2023.
10. Mruczkiewicz, M., Zelent, M., Zhang, Z., Christensen, J., Ščepka, T., and Feilhauer, J.: Unidirectional spin-wave edge modes in magnonic crystal. In: 13th Inter. Conf. Nanomater.: Appl. & Properties - IEEE NAP-2023. Bratislava 2023.
11. Skákalová, V., Mustonen, K., Kotrusz, P., Bui, T.A., Hulman, M., Hutár, P., and Precner, M.: Synthesis and properties of 2D metal iodides/graphene heterostructures. In: 5th Inter.Conf. Functional Nanomater. Nanodev. 2023 (NANOMAT2023). Warsaw 2023.
12. Skákalová, V.: Simple chemical approach to synthesis of 2D metal-iodide/graphene heterostructure. In Symp. Quantum Hall Effects and Related Topics. Stuttgart 2023.
13. Skákalová, V., Mustonen, K., Kotrusz, P., Hofer, C., Bui, T.A., Hutár, P., and Precner, M.: Simple chemical approach to 2D metal iodides/graphene heterostructures and their properties. In: 13th Inter. Conf. Nanomater.: Appl. & Properties - IEEE NAP-2023. Bratislava 2023.
14. Skákalová, V., Kotrusz, P., Hulman, M., Hutár, P., Precner, M., Mustonen, K., An Bui, T., Markevich, A., Hofer, C., Pennycook, T., Gmitra, M., Orendáč, M., and Mnich, J.: Synthesis and properties of 2D metal iodides/graphene heterostructures. In SALVE 2D23. Ulm 2023.
15. Skákalová, V., Varga, M., Åhlgren, E.H., Propst, D., Kotakoski, J., Richter, C., and Hricovini, K.: High resolution STEM imaging of individual quantum centers in diamond. In 6th Workshop on Electron and Spin Dynamics. Neuville (France) 2023.
16. Skákalová, V., Mustonen, K., Kotrusz, P., Hofer, C., Hricovini, K., and Richter, C.: Simple chemical approach to two-dimensional metal iodides/graphene heterostructures. In: 35rd Inter. Winterschool on Electronic Properties of Novel Mater. - IWEPNM 2023. Kirchberg 2023.
17. Ťapajna, M., Egyenes, F., Hrubišák, F., Hušeková, K., Dobročka, E., Nádaždy, P., Rosová, A., Chouhan, H., Keshtkar, J., and Gucmann, F.: Liquid-injection MOCVD-grown Ga_2O_3 on sapphire and 4H-SiC substrates: Material, transport, and MOSFET properties. In: Inter. Meeting for Future of Electron Dev. IMFEDK 2023. Kyoto 2023.
18. Vanko, G.: Gallium nitride based heterostructures for sensor applications. In 6th Erwin Schrödinger Symp. 2023. Dornbirn (Austria) 2023.

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

1. Gucmann, F.: Growth and properties of LI-MOCVD-grown Ga_2O_3 films. In Inst. Technol. Sci, Wuhan Univ. 2023.

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2023

2.7.1. Vynálezy, na ktoré bol v roku 2023 udelený patent

a) na Slovensku

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2023

a) na Slovensku

Názov vynálezu: Záporná elektróda pre nabíjateľnú Li-iónovú batériu, spôsob jej výroby a nabíjateľná Li-iónová batéria
Číslo prihlášky: PP 50005-2023
Dátum priority: 25.1.2023
Majiteľ / spolumajiteľ: Elektrotechnický ústav SAV, v.v.i.
Pôvodcovia vynálezu: Fröhlich Karol, Sahoo Prangya Paramita , Hudec Boris, Güneren Alper , Nada Ahmed Ali Ahmed Haggag

b) v iných krajinách ako prioritná prihláška

c) PCT

Názov vynálezu: A negative electrode for a rechargeable Li-ion battery, its production method, and a rechargeable Li-ion battery
Krajina: Slovensko
Číslo prihlášky: PCT/SK2023/050003
Dátum priority: 22.2.2023
Majiteľ / spolumajiteľ: Elektrotechnický ústav SAV, v.v.i.
Pôvodcovia vynálezu: Fröhlich Karol, Sahoo Prangya Parimita, Hudec Boris, Güneren Alper, Nada Ahmed Ali Ahmed Haggag

d) EP

Názov vynálezu: Veľkoplošný detector jadrových častíc a žiarenia s podložkou, spôsob jeho výroby a zapojenie obsahujúce veľkoplošný detektor
Krajina: Slovensko
Číslo prihlášky: EP 22755321.1
Dátum priority: 28.9.2023
Majiteľ / spolumajiteľ: Elektrotechnický ústav SAV, v.v.i.
Pôvodcovia vynálezu: Zaťko Bohumír, Dubecký František

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

2.7.3. Úžitkové vzory na Slovensku

a) prihlásené v roku 2023

Názov UV: Expozičný modul s programovateľným cloniacim poľom pre vákuové komory
Číslo UV: 50039-2023
Dátum prihlášky: 7.6.2023
Majiteľ / spolumajiteľ UV: Elektrotechnický ústav SAV, v.v.i.
Pôvodcovia UV: Gucmann Filip, Zelenay M., Kurbel M., Hudec Boris, Ťapajna Milan

Názov UV: Stereolitografický modul pre vákuové komory
Číslo UV: 50038-2023
Dátum prihlášky: 7.6.2023
Majiteľ / spolumajiteľ UV: Elektrotechnický ústav SAV, v.v.i.
Pôvodcovia UV: Hudec Boris, Zelenay M., Kurbel M., Gucmann Filip, Ťapajna Milan

b) udelené v roku 2023

2.7.4. Realizované vynálezy

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

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

Finančný prínos pre organizáciu SAV v roku 2023 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
Gregušová Dagmar	VV APVV	1
Haščík Štefan	VEGA	1
Chromik Štefan	VEGA	1
Osvald Jozef	VEGA	1
Rosová Alica	APVV	1
Ťapajna Milan	KEGA	1
Tóbik Jaroslav	VEGA	2

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch

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

Meno pracovníka	Ved. monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Gömöry Fedor	0	0	12	0	0	0	0
Gregušová Dagmar	0	0	7	0	0	0	0
Gucmann Filip	0	0	17	0	0	0	0
Hudec Boris	0	0	4	0	0	0	0
Hulman Martin	0	0	2	0	0	0	0
Chromik Štefan	0	0	2	0	0	3	0
Izsák Tibor	0	0	3	0	0	2	0
Kováč Pavol	0	0	26	0	0	0	0
Kuzmík Ján	0	0	5	0	0	0	0
Rosová Alica	0	0	10	0	0	0	0
Skákalová Viera	0	0	2	0	0	0	0
Sojková Michaela	0	0	10	0	0	0	0
Soloviov Mykola	0	0	8	0	0	0	0
Španková Marianna	0	0	3	0	0	0	0
Ťapajna Milan	0	0	30	0	0	3	0
Tóbik Jaroslav	0	0	1	0	0	0	0
Vanko Gabriel	0	0	3	0	0	3	0
Varga Marian	0	0	2	0	0	2	1
Zápražný Zdenko	0	0	1	0	0	0	0
Zaťko Bohumír	0	0	3	0	0	1	0
Spolu	**0**	**0**	**151**	**0**	**0**	**14**	**1**

2.11. Iné informácie k vedecko-výskumnej činnosti.

3. Medzinárodná vedecká spolupráca

3.1. Medzinárodné vedecké podujatia

3.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2023 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

IEEE 2023 Nanomateriály: Aplikácie a vlastnosti, Bratislava, 400 účastníkov, 03.11.-03.11.2023

Konferencia bola zameraná predovšetkým na oblasť materiálov v nanorozmeroch s dôrazom na interdisciplinárny výskum a využitie ich jedinečných fyzikálnych a chemických vlastností pre praktické aplikácie.
Medzi účastníkmi konferencie boli poprední súčasní chemici, fyzici a materiáloví vedci (prof. Y. Gogotsi, prof. J. Fabian, prof V. Tsukruk a ďalší), poprední medzinárodní odborníci z priemyslu a podnikatelia.
Konferenciu finančne podporili firmy ESET, Bizzcom a Atlant 3D (Dánsko), Sumy state university a IEEE NT. Podujatie IEEE NAP v Bratislave tak pritiahlo množstvo domácich a medzinárodných doktorandov, študentov a odborníkov na začiatku kariéry. Účastníci boli zo 48 krajín. Účastníci z Ukrajiny boli podporení grantom.
Počas konferencie sme zorganizovali množstvo sprievodných podujatí: Uvítaciu recepciu, konferenčnú večeru, okrúhly stôl "Nanotech Startup" a večer mladých profesionálov.
Z konferencie vyšiel aj zborník so 110 príspevkami.

3.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2024 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

3.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 3a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Gömöry Fedor	0	0	3
Gucmann Filip	0	0	1
Skákalová Viera	0	0	1
Spolu	0	0	5

3.2. Členstvo a funkcie v medzinárodných orgánoch

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

doc. Ing. Fedor Gömöry, DrSc.

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

Ing. Pavol Kováč, DrSc.

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

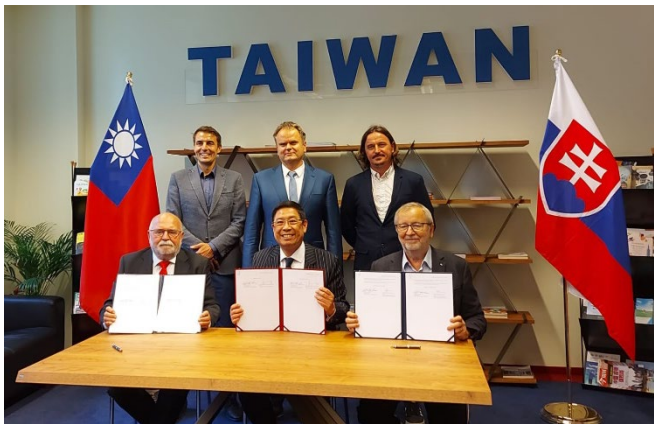
3.3. Účasť expertov na hodnotení medzinárodných projektov (EÚ RP, ESF a iných)

Tabuľka 3b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Kuzmík Ján	HORIZON KDT JU 2023 Calls 1-3	37
Ťapajna Milan	DFG (Nemecko) Research Grants Programme	1

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

V r. 2023 sme potvrdili našu spoluprácu so svetovým lídrom v oblasti polovodičov, s firmou **Industrial Technology Research Institute,** ITRI (Taiwan), podpisom dvoch dokumentov.
Prvý z nich, základný, bol podpísaný na Taiwane a hovorí o transfere know-how, o spolupráci na najbližšie 4 roky v oblasti výskumu a vývoja GaN a GaO technológií ako aj o testovaní výkonových modulov a vzdelávaní v tejto oblasti (obr vľavo).
Druhý dokument, podpísaný v Bratislave, hovorí o konkrétnej finančnej podpore počas obdobia riešenia projektu (obr. vpravo). Celková výška podpory pre ElÚ SAV, v.v.i., je asi 2,7 mil. €.
Na uvedenej spolupráci sa podieľa a zmluvu s ITRI podpísala aj STU v Bratislave. Toto je významný impulz na zlepšenie našej ďalšej spolupráce s STU do budúcnosti.



Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe A-5.
Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe A-2.

4. Aplikácia výsledkov výskumu v praxi

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

4.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov/účel kontraktového výskumu: Participation of IEE to ASCEND
Zadávateľ výskumného kontraktu: AIRBUS UpNext (France)
Začiatok spolupráce: 2022
Ukončenie spolupráce: 2023
Finančný prínos pre organizáciu (€): 32145

Názov/účel kontraktového výskumu: Superconducting (HTS) version of HEBT magnet
Zadávateľ výskumného kontraktu: GSI Darmstadt (Germany)
Začiatok spolupráce: 2023
Ukončenie spolupráce: 2023
Finančný prínos pre organizáciu (€): 43000

4.3. Iné formy aplikácie výsledkov výskumu a využitia odbornosti

5. Doktorandské štúdium a pedagogická činnosť

5.1. Údaje o doktorandskom štúdiu

Tabuľka 5a Počet doktorandov v roku 2023

Forma	Počet k 31.12.2023				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2023					
							Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí				ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Denná zo zdrojov SAV	9	3	2	1	5	0	1	0	0	0	0	0
Denná z iných zdrojov	2	1	0	0	4	2	2	1	0	0	0	0
Externá	1	0	0	0	2	0	0	0	1	0	0	0
Spolu	12	4	2	1	11	2	3	1	1	0	0	0
Z toho zahraničných	6	2	2	1	4	1	1	1	0	0	0	0
Súhrn	16		3		13		4		1		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.
Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v riadku „Súhrn“ vyjadruje celkový počet doktorandov (mužov a žien spolu), čiže je súčtom príslušných dvoch buniek z riadku „Spolu“.V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2023 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.
Pod predčasným ukončením rozumieme ukončenie bez obhajoby dizertačnej práce pričom doktorand neabsolvoval celú štandardnú dĺžku štúdia. Pod neúspešným ukončením rozumieme ukončenie bez úspešnej obhajoby dizertačnej práce, pričom študent absolvoval celú štandardnú dĺžku štúdia.

5.2. Zmena formy doktorandského štúdia

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

Pôvodná forma	Denná z prostriedkov SAV	Denná z prostriedkov SAV	Denná z iných zdrojov	Denná z iných zdrojov	Externá	Externá
Nová forma	**Denná z iných zdrojov**	**Externá**	**Denná z prostriedkov SAV**	**Externá**	**Denná z prostriedkov SAV**	**Denná z iných zdrojov**
Počet	2	0	0	1	0	0

5.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 5c Menný zoznam ukončených doktorandov v roku 2023 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnosť
Mgr. Konstantin Bublikov	interné štúdium hradené z prostriedkov SAV	9 / 2017	1 / 2023	4.1.3 fyzika kondenzovaných látok a akustika	Ing. Jaroslav Tóbik PhD., Elektrotechnický ústav SAV, v. v. i.	Fakulta matematiky, fyziky a informatiky UK
Mgr. Fridrich Egyenes	interné štúdium hradené z iných zdrojov	9 / 2018	8 / 2023	4.1.3 fyzika kondenzovaných látok a akustika	Ing. Milan Ťapajna PhD., Elektrotechnický ústav SAV, v. v. i.	Fakulta matematiky, fyziky a informatiky UK
Mgr. Iuliia Vetrova	interné štúdium hradené z iných zdrojov	9 / 2018	8 / 2023	4.1.3 fyzika kondenzovaných látok a akustika	Ing. Ján Šoltýs PhD, Elektrotechnický ústav SAV, v. v. i.	Fakulta matematiky, fyziky a informatiky UK

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

Tabuľka 5d Menný zoznam ukončených doktorandov v roku 2023 úspešnou obhajobou v nadštandardnej dĺžke štúdia

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnosť
Ing. Ondrej Pohorelec	interné štúdium hradené z iných zdrojov	9 / 2018	8 / 2023	5.2.13 elektronika	RNDr. Dagmar Gregušová DrSc., Elektrotechnický ústav SAV, v. v. i.	Fakulta elektrotechniky a informatiky STU

5.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 5e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2023 (obhajoba leto 2023)	z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)	z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu	z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu	z toho koľkí boli nejaký čas nezamestnaní
4	3	1	0	0

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

5.6. Medzinárodné doktorandské štúdium

Tabuľka 5f Počet študentov v medzinárodných programoch doktorandského štúdia

Cotutelle	Co-direction	Iné	Zahraniční doktorandi štátne občianstvo/počet
0	0	0	IRN/4, RUS/3, PAK/2, IND/1

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

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

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

Názov študijného odboru (ŠO)	Číslo ŠO	Názov doktorandského študijného programu	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
fyzika	4.1.1	Fyzika kondenzovaných látok a akustika	Fakulta matematiky, fyziky a informatiky UK
fyzika kondenzovaných látok a akustika	4.1.3	Fyzika kondenzovaných látok a akustika	Fakulta matematiky, fyziky a informatiky UK
fyzikálne inžinierstvo	5.2.48	Fyzikálne inžinierstvo	Fakulta elektrotechniky a informatiky STU
elektrotechnika	5.2.9	Fyzikálne inžinierstvo	Fakulta elektrotechniky a informatiky STU

Názov a číslo študijného odboru vyplňte/vyberte podľa aktuálne platného zoznamu študijných odborov https://www.portalvs.sk/sk/studijne-odbory?from=menu1. Názov doktorandského študijného programu v stĺpci 3 je potrebné vložiť ako voľný text.
Do 31. 8. 2023 študujú študenti doktorandského štúdia zaradení do študijných programov podľa zoznamu MŠVVaŠ, platného do 1. 9. 2019. Pre týchto študentov je potrebné napísať názov programu ako voľný text do stĺpca 3 a nevypĺňovať stĺpce 1 a 2.

Tabuľka 5h Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií pre doktorandské štúdium	**Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt**	**Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnosť alebo vyšší kvalifikačný stupeň**
RNDr. Vladimír Cambel, DrSc. (elektronika)	doc. Ing. Fedor Gömöry, DrSc. (Elektrotechnická fakulta ŽU)	Mgr. Konstantin Bublikov, PhD. (IIb)
doc. RNDr. Edmund Dobročka, CSc. (fyzikálne inžinierstvo)	doc. Ing. Fedor Gömöry, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	Mgr. Fridrich Egyenes, PhD. (IIb)
doc. Ing. Fedor Gömöry, DrSc. (fyzikálne inžinierstvo)	doc. Ing. Jozef Novák, DrSc. (Fakulta elektrotechniky a informatiky STU)	Ing. Ondrej Pohorelec, PhD. (IIb)
RNDr. Dagmar Gregušová, DrSc. (elektrotechnika)	Ing. Milan Ťapajna, PhD. (Fakulta elektrotechniky a informatiky STU)	RNDr. Lenka Pribusová Slušná, PhD. (IIa)
RNDr. Dagmar Gregušová, DrSc. (elektronika)		Mgr. Iuliia Vetrova, PhD. (IIb)
Dr. rer. nat. Martin Hulman (fyzika)		Mgr. Konstantin Bublikov, PhD. (PhD., Fakulta matematiky, fyziky a informatiky UK)
Ing. Ján Kuzmík, DrSc. (teoretická elektrotechnika)		Mgr. Fridrich Egyenes, PhD. (PhD., Fakulta matematiky, fyziky a informatiky UK)
Ing. Ján Kuzmík, DrSc. (elektronika)		Ing. Ondrej Pohorelec, PhD. (PhD., Fakulta elektrotechniky a informatiky STU)
doc. RNDr. Martin Moško, DrSc. (fyzika kondenzovaných látok a akustika)		Mgr. Iuliia Vetrova, PhD. (PhD., Fakulta matematiky, fyziky a informatiky UK)
doc. RNDr. Martin Moško, DrSc. (chemická fyzika)		
doc. RNDr. Martin Moško, DrSc. (teoretická elektrotechnika)		
doc. RNDr. Martin Moško, DrSc. (fyzikálne inžinierstvo)		
doc. Ing. Jozef Novák, DrSc. (elektronika)		
RNDr. Marianna Španková, PhD (elektrotechnika)		
Ing. Milan Ťapajna, PhD. (elektronika)		
Ing. Gabriel Vanko, PhD. (elektronika)		

5.8. Údaje o pedagogickej činnosti

Tabuľka 5i Prednášky a cvičenia vedené v roku 2023

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	5	0	7	0
Celkový počet hodín v r. 2023	48	0	47	0

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

Tabuľka 5j Aktivity pracovníkov na VŠ

1.	**Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác**	8
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	8
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	16
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	22
5.	**Počet oponovaných dizertačných a habilitačných prác**	6
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	5
7.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác**	1
8.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác**	10
9.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách**	0

5.9. Iné dôležité informácie k pedagogickej činnosti

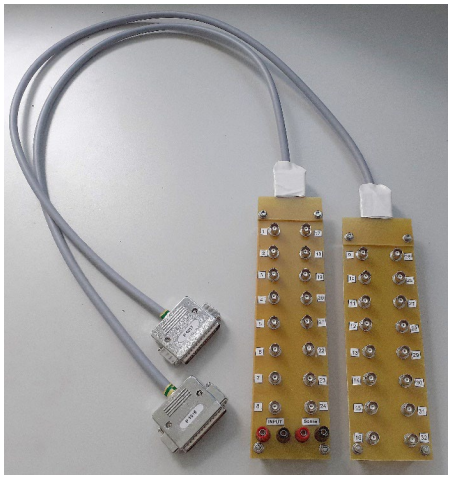
- Ústav pozýva zahraničných odborníkov, aby predstavili výsledky v rôznych oblastiach výskumu. V tomto roku odzneli prednášky:

Dr. Chao Yuan (The Institute of Technological Sciences, Wuhan University, China): Pump-probe thermoreflectance techniques for non-contact and non-invasively characterizing the thermal properties of wide bandgap semiconductors
Dr. D. Zákutná (Univ. Karlova, Praha): Polarized small-angle neutron scattering as a powerful tool for magnetic nanoparticle characterization
MSc. M. Gerina (Univ. Karlova, Praha): Size dependence of surface spin disorder in ferrite nanoparticles

- Ústav spolupracuje na výučbe predmetov Elektromagnetické prvky a systémy a Nanotechnológie na FEI STU a Praktikum Fyziky tuhých látok na FMFI UK
- Ústav tradične zamestnáva VŠ študentov formou VPS. Ich práca často vyústi do prípravy semestrálnych, bakalárskych a diplomových prác. V r. 2023 ich bolo 14
- dvojmesačný študijný pobyt na Ústave strávila Lucia Sajes z Universidad Católica Boliviana na medzinárodné štipendium IAESTE

- dvojmesačnú odbornú prax na ústave absolvovala Audrey Romain z Université Polytech Paris-Saclay. D. Gregušová supervizor, zodpovedná pracovníčka

V lete 2023 absolvovali niekoľkí študenti stredných škôl zo SPŠE K. Adlera , SPŠE Zochova a Gymnázia Bilíkova na ElÚ SAV, v.v.i. pod vedením našich kolegov Ing. Ľ. Froleka, Ing. T. Melíška a Ing. B. Hudeca, PhD. odbornú prax stredoškolákov, resp. letnú brigádu.
Počas praxe navrhli a realizovali konektorové rozhranie pre multiplexer KEITHLEY 7703. Naučili sa, aký je rozdiel medzi paralelným a sériovým radením odporov/kondenzátorov/zdrojov prúdu, resp. napätia. Študent zhotovil podľa vlastného návrhu dosku plošného spoja, zapojil do nej súčiastky a dokončil jej mechanickú montáž (obr. vľavo). Iný študent sčasti navrhol, naobjednával a pozapájal 4-kanálový teplotný PID kontroler z bežne dostupných komponentov (obr. vpravo).
Študentov sme sa opýtali, či prax na našom ústave splnila ich očakávania. Odpoveď jedného zo žiakov bola: „Myslel som si, že sa tam budem iba pozerať, ale naopak som tam robil rôzne veci, pri ktorých som sa veľa naučil.“



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

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

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Fakulta elektrotechniky a informatiky STU
Oblasť spolupráce: Výchova študentov, spoločná príprava a riešenie projektov a aplikačných riešení
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 1969
Zhodnotenie: Výsledkom spolupráce sú spoločné projekty, publikácie a PhD študenti.

Názov univerzity/vysokej školy a fakulty: Fakulta matematiky, fyziky a informatiky UK
Oblasť spolupráce: Výchova študentov, spoločná príprava a riešenie projektov a aplikačný ch riešení
Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 1992
Zhodnotenie: Výsledkom spolupráce sú spoločné projekty, publikácie a PhD študenti.

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

6.1.2. Spoločné pracoviská s inými organizáciami SAV

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

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

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

6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

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

Názov projektu: Metalické 2D dichalkogenidy prechodných kovov: príprava, štúdium vlastností a korelované stavy
Agentúra: APVV
číslo projektu: 19-0365
Spolupracujúce inštitúcie: FMFI UK
Koordinátor projektu: ElÚ SAV
Začiatok spolupráce: 2020
Koniec spolupráce: 2023

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

Názov projektu: Optimalizácia okrúhleho kábla z vysokoteplotného supravodiča pre pulzné magnetické polia
Agentúra: APVV
číslo projektu: 20-0056
Spolupracujúce inštitúcie: Materiálovotechnologická fakulta STU
Koordinátor projektu: Materiálovotechnologická fakulta STU
Začiatok spolupráce: 2021
Koniec spolupráce: 2025

Názov projektu: Topologicky netriviálne magnetické a supravodivé nanoštruktúry
Agentúra: APVV
číslo projektu: 20-0425
Spolupracujúce inštitúcie: Prírodovedecká fakulta, UPJŠ
Koordinátor projektu: Prírodovedecká fakulta, UPJŠ
Začiatok spolupráce: 2021
Koniec spolupráce: 2024

Názov projektu: Nanoelsen – Nanoštrukturované tenkovrstvové materiály vyznačujúce sa slabými väzbovými interakciami pre elektronické a senzorické aplikácie
Agentúra: APVV
číslo projektu: 21-0278
Spolupracujúce inštitúcie: Ústav elektroniky a fotoniky FEI STU
Koordinátor projektu: Ústav elektroniky a fotoniky FEI STU
Začiatok spolupráce: 2022
Koniec spolupráce: 2026

Názov projektu: NanoMemb-RF – Moderné nanomembránové heteroštruktúry na báze GaAs pre vysoko produktívne vysokofrekvenčné prvky
Agentúra: APVV
číslo projektu: 21-0365
Spolupracujúce inštitúcie: Ústav elektroniky a fotoniky FEI STU
Koordinátor projektu: Ústav elektroniky a fotoniky FEI STU
Začiatok spolupráce: 2022
Koniec spolupráce: 2025

Názov projektu: PEGANEL – p-GaN elektronika pre úsporu energie a post-CMOS obvody
Agentúra: APVV
číslo projektu: 21-0008
Spolupracujúce inštitúcie: Ústav elektroniky a fotoniky FEI STU
Koordinátor projektu: ElÚ SAV
Začiatok spolupráce: 2022
Koniec spolupráce: 2025

Názov projektu: Fotonické labortórium na čipe: výskum a vývoj platformy plazmonického senzora pre okamžitú detekciu zložiek v roztokoch
Agentúra: APVV
číslo projektu: 20-0437
Spolupracujúce inštitúcie: Ústav elektroniky a fotoniky FEI STU
Koordinátor projektu: Ústav elektroniky a fotoniky FEI STU
Začiatok spolupráce: 2021
Koniec spolupráce: 2024

Názov projektu: Transit2D – Tranzistory na báze 2D kovových chalkogenidov pripravených teplom podporovanou konverziou
Agentúra: APVV
číslo projektu: 21-0231
Spolupracujúce inštitúcie: Ústav elektroniky a fotoniky FEI STU
Koordinátor projektu: ElÚ SAV
Začiatok spolupráce: 2022
Koniec spolupráce: 2026

Názov projektu: Moderné elektronické súčiastky na báze ultraširokopásmového polovodiča Ga_2O_3 pre budúce vysokonapäťové aplikácie
Agentúra: APVV
číslo projektu: 20-0220
Spolupracujúce inštitúcie: Ústav elektroniky a fotoniky FEI STU, Materiálovotechnologická fakulta STU
Koordinátor projektu: ElÚ SAV
Začiatok spolupráce: 2021
Koniec spolupráce: 2025

Názov projektu: Perspektívne detektory ionizujúceho žiarenia pre nepokryté energetické okno neutrónov
Agentúra: APVV
číslo projektu: 22-0382
Spolupracujúce inštitúcie: Ústav jadrového a fyzikálneho inžinierstva FEI STU
Koordinátor projektu: ElÚ SAV
Začiatok spolupráce: 2023
Koniec spolupráce: 2027

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

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

Názov projektu: Nanooptické sondy a senzory integrované na optickom vlákne
Agentúra: APVV
číslo projektu: 20-0264
Spolupracujúce inštitúcie: Žilinská univerzita v Žiline
Koordinátor projektu: Žilinská univerzita v Žiline
Začiatok spolupráce: 2021
Koniec spolupráce: 2024

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

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

Ako bolo spomínané v časti 3.4, ElÚ SAV úzko spolupracuje s FEI STU v Bratislave a výskumnou inštitúciou ITRI (Taiwan) v oblasti montáže, testovania a spoľahlivosti výkonových modulov na báze širokopásmových polovodičov. Podpísané trilaterálne zmluvy predstavujú významný faktor na zlepšenie našej spolupráce s STU v budúcnosti.

7. Vedecko-organizačné a popularizačné aktivity

7.1. Vedecko-popularizačná činnosť

Tabuľka 7a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	1	tlač	3	TV	1
rozhlas	0	internet	1	exkurzie	1
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	7				

7.2. Vedecko-organizačná činnosť

Tabuľka 7b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
IEEE 2023 Nanomateriály: Aplikácie a vlastnosti	medzinárodná	Bratislava	3.11.-3.11.2023	400

7.3. Účasť na výstavách

7.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 7c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Chromik Štefan	1	0	0
Novák Jozef	0	0	1
Vanko Gabriel	0	0	1
Spolu	1	0	2

7.5. Členstvo v redakčných radách časopisov

doc. Ing. Fedor Gömöry, DrSc.

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

RNDr. Dagmar Gregušová, DrSc.

Electronic Materials - mdpi (funkcia: člen)

Ing. Filip Gucmann, PhD.

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

Ing. Štefan Chromik, DrSc.

ICRN Condensed Matter Physics (funkcia: člen)

Ing. Pavol Kováč, DrSc.

Superconductor Science and Technology (funkcia: člen)

doc. Ing. Jozef Novák, DrSc.

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

Ing. Jozef Osvald, DrSc.

Materials Science in Semiconductor Processing (funkcia: člen)

Mgr. Enric Pardo, PhD.

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

Ing. Milan Ťapajna, PhD.

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

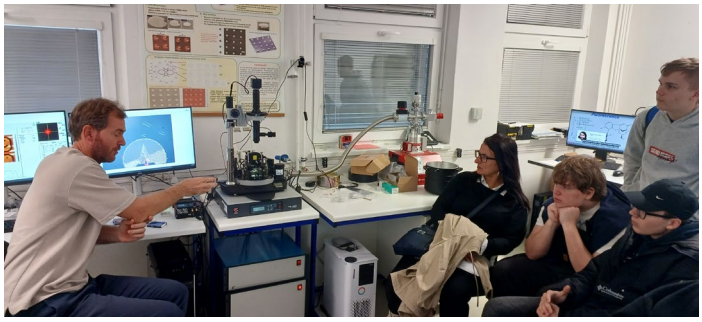
Ing. Jaroslav Tóbik, PhD.

Scientific Reports (funkcia: člen)

7.6. Činnosť v domácich vedeckých spoločnostiach

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

Dňa 9. 11. 2023 sa konalo v rámci Týždňa vedy a techniky podujatie Deň otvorených dverí na Elektrotechnickom ústave.
Ústav navštívili žiaci z vybraných bratislavských škôl (Gymnázium J. Papánka, ZŠ Rajčianska, ZŠ Vetvárska) ako aj žiaci zo SPŠT Trnava. Pre žiakov základných škôl boli pripravené zaujímavé experimenty z fyziky, stredoškoláci si vypočuli prednášky o polovodičoch a supravodičoch. Nakoniec všetci navštívili vybrané laboratóriá s ukážkami magnetickej levitácie, elektrických meraní polovodičových a supravodivých štruktúr. Takisto sa oboznámili so zobrazovacími technikami na štúdium povrchu a kryštalickej štruktúry rôznych materiálov. Najväčší záujem bol už tradične o levitujúce predmety, na čom demonštrujeme správanie sa supravodičov v magnetickom poli pri nízkej teplote.



29. septembra sme na NOC VÝSKUMNÍKOV predstavili experimenty, ktoré okrajovo súvisia aj s našou vedeckou prácou. Účastníci si mohli vyskúšať jeden krok v príprave polovodičových súčiastok s rozmermi len niekoľko mikrometrov, poskladať si 3-D model tranzistora, pripraviť si najtenší materiál na svete – grafén, zažiť magnetickú levitáciu supravodiča v supravodivom stave, či vidieť demonštráciu Teslovho sna – bezdrôtového prenosu elektrickej energie. Okrem experimentov sme zvedavým návštevníkom priblížili aj naše výskumné aktivity a pracovisko.

Ústav sa pripojil k oslavám 70. výročia založenia SAV na podujatí Víkend so SAV, kde počas dvoch dní pripravil stánok s vedecko-popularizačnými aktivitami najmä pre deti a mládež. Taktiež sme pripravili mnoho vývesiek, ktoré prezentovali naše aktuálne riešené vedecké témy širokej laickej aj odbornej verejnosti.

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

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

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

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

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

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

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

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

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

9. Aktivity v orgánoch SAV

9.1. Členstvo vo Výbore Snemu SAV

9.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

9.3. Členstvo v komisiách SAV

RNDr. Vladimír Cambel, DrSc.

- Etická komisia SAV (člen)

Ing. Ján Fedor, PhD

- Kontrolná rada areálu SAV (člen)

doc. Ing. Fedor Gömöry, DrSc.

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

RNDr. Dagmar Gregušová, DrSc.

- Komisia pre posudzovanie vedeckej kvalifikácie (predsedníčka)

9.4. Členstvo v orgánoch VEGA

RNDr. Dagmar Gregušová, DrSc.

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

Dr. rer. nat. Martin Hulman

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

Ing. Ján Kuzmík, DrSc.

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

Ing. Alica Rosová, CSc.

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

Ing. Milan Ťapajna, PhD.

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

Mgr. Bohumír Zaťko, PhD

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

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

10.1. Uplatňovanie princípov stratégie ľudských zdrojov HRS4R

Uveďte stručnú charakteristiku a hodnotenie aktivít v oblasti HRS4R.

10.2. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

Na Elektrotechnickom ústave SAV, v.v.i. je od 1. 12. 2021 zriadená Komisia pre rodové a etické otázky. Jej úlohou je zvyšovať povedomie o diverzite a rodovej rovnosti na pracovisku a zároveň riešiť konkrétne podnety pracovníkov a pracovníčok. V roku 2023 sa Komisia zaoberala jedným podnetom.
Komisia pre rodové a etické otázky na ElÚ SAV, v. v. i. a vedenie ElÚ SAV v. v. i. v spolupráci s Ústavom výskumu sociálnej komunikácie SAV, v. v. i. organizovali pre mladých vedeckých pracovníkov do 35 rokov, doktorandov a postdoktorandov workshop na tému „Základy diverzity a rodovej rovnosti na ElÚ SAV, v. v. i.“
Workshop sa konal 23. 5. 2023 pod vedením Mgr. Zuzany Očenášová, PhD. z Ústavu výskumu sociálnej komunikácie SAV, v. v. i. a zúčastnilo sa ho 20 mladých vedeckých pracovníkov. V takýchto aktivitách Komisia pre rodové a etické otázky na ElÚ SAV, v.v.i. plánuje pokračovať v roku 2024.

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

10.2.1. Rodová skladba hlavných riešiteľov (vedúcich) projektov

Prípadný stručný komentár ako úvod (nepovinný).

Tabuľka 10a Rodová skladba hlavných riešiteľov domácich projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1. Projekty VEGA	13	9	4	1	1	0
2. Projekty APVV	10	10	0	8	6	2
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	1	1	0	1	1	0
4. Projekty SASPRO, MoRePro, IMPULZ	1	1	0	0	0	0
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	5	4	1	0	0	0

Tabuľka 10b Rodová skladba hlavných riešiteľov medzinárodných projektov

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

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

10.2.2. Výskum zameraný na rodovú problematiku

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

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

Uveďte stručné, základné informácie k problematike.

11. Organizačné a právne zmeny v organizácii

11.1. Informácie o vnútorných organizačných zmenách

Uveďte stručné, základné informácie k problematike.

11.2. Zmeny zakladacej listiny, vnútorných predpisov organizácie alebo zakladateľa

Uveďte stručné, základné informácie k problematike.

12. Činnosť knižnično-informačného pracoviska organizácie

12.1. Knižničný fond

Tabuľka 12a Knižničný fond

Knižničné jednotky spolu		2187
z toho	knihy a zviazané periodiká	1218
	audiovizuálne dokumenty	0
	elektronické dokumenty (vrátane digitálnych)	146
	mikroformy	0
	iné špeciálne dokumenty - dizertácie, výskumné správy	823
	Rukopisy, vzácne tlače	0
Počet titulov dochádzajúcich periodík		1
z toho zahraničné periodiká		1
Ročný prírastok knižničných jednotiek		6
v tom	kúpou	1
	darom	5
	výmenou	0
	bezodplatným prevodom	0
	náhradou	0
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		2187

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

12.2. Výpožičky a služby

Tabuľka 12b Výpožičky a služby

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

Počet vypracovaných rešerší	298

12.3. Používatelia

Tabuľka 12c Používatelia

Registrovaní používatelia	124
Návštevníci knižnice spolu (bez návštevníkov podujatí)	0

12.4. Iné údaje

Tabuľka 12d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	1
Náklady na nákup knižničného fondu v €	122

12.5. Iné informácie o knižničnej činnosti

13. Nadácie a fondy pri organizácii

14. Realizácia Koncepcie dlhodobého rozvoja a Akčného plánu organizácie

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

Medzinárodný panel ElÚ SAV, v.v.i. skonštatoval progress dosiahnutý ústavom v poslednom období. Veľkú úlohu v tomto zohral náš Medzinárodný poradný zbor (Advisory Board – AB) a realizácia jeho odporúčaní v praxi.

14.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

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

14.3. Aktualizácia Akčného plánu organizácie v roku 2023

Akčný plán ElÚ SAV bude aktualizuvaný na základe pripomienok nášho AB na začiatku r. 2024.

15. Iné významné činnosti organizácie SAV

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

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

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

Uveďte informácie a podnety v súlade s názvom kapitoly.

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

Vedecká rada ElÚ SAV, v.v.i. na zasadnutí dňa 6. februára 2024 prerokovala výročnú správu Elekrotechnického ústavu v.v.i. a konštatuje, že ústav dosiahol významné výsledky vo výskumnej činnosti, o čom svedčí veľký počet pôvodných vedeckých prác a ohlasov na ne. Dosiahol významné výsledky aj v rámci pedagogickej aktivity, medzinárodnej spolupráce a aj v spolupráci s podnikateľskými subjektami.

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

Schválila vedecká rada organizácie SAV dňa 6. 2. 2024

RNDr. Dagmar Gregušová, DrSc.
predseda vedeckej rady

Výročnú správu o činnosti organizácie za rok 2023 vypracoval(i):

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

Bratislava, 8.2.2024

RNDr. Vladimír Cambel, DrSc.
riaditeľ organizácie

PRÍLOHY k časti A

Príloha A-1

Zoznam zamestnancov a doktorandov organizácie k 31.12.2023

Zoznam zamestnancov podľa štruktúry

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	RNDr. Vladimír Cambel, DrSc.	100	1.00
2.	doc. Ing. Fedor Gömöry, DrSc.	100	1.00
3.	RNDr. Dagmar Gregušová, DrSc.	100	1.00
4.	Ing. Štefan Chromik, DrSc.	60	0.60
5.	Ing. Pavol Kováč, DrSc.	100	1.00
6.	Ing. Ján Kuzmík, DrSc.	100	1.00
7.	doc. RNDr. Martin Moško, DrSc.	40	0.40
8.	doc. Ing. Jozef Novák, DrSc.	60	0.60
9.	Ing. Jozef Osvald, DrSc.	20	0.30
10.	doc. Ing. Viera Skákalová, DrSc.	60	0.60
Samostatní vedeckí pracovníci			
1.	Ing. Michal Blaho, PhD.	100	1.00
2.	RNDr. Pavol Boháček, CSc.	40	0.40
3.	doc. RNDr. Edmund Dobročka, CSc.	80	0.80
4.	Ing. Ján Fedor, PhD	100	1.00
5.	Mgr. Juraj Feilhauer, PhD.	100	1.00
6.	Ing. Filip Gucmann, PhD.	100	1.00
7.	RNDr. Štefan Haščík, PhD.	60	0.60
8.	Ing. Boris Hudec, PhD.	100	1.00
9.	Dr. rer. nat. Martin Hulman	100	1.00
10.	Ing. Tibor Izsák, PhD.	100	1.00
11.	RNDr. Dušan Korytár, CSc.	20	0.20
12.	Mgr. Peter Kotrusz, PhD.	100	1.00
13.	Mgr. Ján Kováč, PhD.	100	1.00
14.	Mgr. Andrii Kozak, PhD.	100	0.50
15.	RNDr. Michal Kučera, PhD	50	0.50
16.	Ing. Róbert Kúdela, CSc.	20	0.20
17.	Mgr. Agáta Laurenčíková, PhD.	100	0.00
18.	Ing. Peter Lobotka, CSc.	20	0.18

19.	RNDr. Antónia Mošková, CSc.	60	0.73
20.	Dr. Michal Mruczkiewicz	30	0.31
21.	Mgr. Enric Pardo, PhD.	100	1.00
22.	Ing. Marián Precner, PhD.	100	1.00
23.	RNDr. Lenka Pribusová Slušná, PhD.	100	1.00
24.	Ing. Alica Rosová, CSc.	100	1.00
25.	Mgr. Eugen Seiler, PhD	100	1.00
26.	Mgr. Michaela Sojková, PhD.	100	1.00
27.	Mgr. Mykola Soloviov, PhD.	100	1.00
28.	Ing. Roman Stoklas, PhD.	100	1.00
29.	Ing. Ján Šoltýs, PhD	100	1.00
30.	Ing. Ján Šouc, CSc.	80	0.80
31.	RNDr. Marianna Španková, PhD	100	1.00
32.	Ing. Milan Ťapajna, PhD.	70	0.70
33.	Ing. Jaroslav Tóbik, PhD.	100	0.88
34.	Ing. Gabriel Vanko, PhD.	100	1.00
35.	Ing. Marian Varga, PhD.	100	1.00
36.	Ing. Zdenko Zápražný, PhD.	100	1.00
37.	Mgr. Bohumír Zaťko, PhD	100	1.00
Vedeckí pracovníci			
1.	MSc. Anang Dadhich, PhD.	100	1.00
2.	Mgr. Fridrich Egyenes, PhD.	100	0.78
3.	Ing. Jozef Fabian, CSc	100	1.00
4.	Ing. Norbert Gál, PhD.	100	0.00
5.	Ing. Ladislav Hrubčín, CSc.	20	0.20
6.	Mgr. Peter Hutár, PhD.	50	0.48
7.	RNDr. Tetiana Kalmykova, PhD.	100	1.00
8.	Ing. Tomáš Kujovič, PhD.	100	1.00
9.	Ing. Marek Mošať, PhD.	100	1.00
10.	Mgr. Peter Nádaždy, PhD.	50	0.50
11.	RNDr. Katarína Neilinger, PhD.	80	0.40
12.	Ing. Ondrej Pohorelec, PhD.	100	1.00
13.	Ing. Rastislav Ries, PhD.	100	1.00
14.	Dr. Arpit Kumar Srivastava	100	1.00
15.	Ing. Tomáš Ščepka, PhD.	100	1.00

16.	Ing. Marcel Talacko, PhD.	50	0.45
17.	Mgr. Iuliia Vetrova, PhD.	100	0.70
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr.Phil. Faizan Ahmad	10	0.02
2.	Ing. Michal Bennár	10	0.10
3.	Ing. Dušan Berek	100	1.00
4.	Ing. Marek Búran	100	1.00
5.	Ing. Peter Eliáš	100	1.00
6.	MSc. Ghazaleh Esmaeili Dehaghi	10	0.10
7.	Ing. Lubomír Frolek	100	1.00
8.	Ing. Stanislav Hasenöhrl	100	1.00
9.	Mgr. Jana Hrdá	100	0.40
10.	Ing. Fedor Hrubišák	10	0.10
11.	MSc. Arif Hussain	10	0.10
12.	Ing. Imrich Hušek	100	1.00
13.	RNDr. Kristína Hušeková	80	0.93
14.	MTech. Hemendra Chouhan	10	0.08
15.	MSc. Javad Keshtar	10	0.10
16.	Ing. Eva Kováčová	100	1.00
17.	Sergei Krylov	100	0.70
18.	Ing. Martin Kucharovič	100	0.40
19.	Ing. Tibor Melišek	60	0.60
20.	Mgr. Martina Pakanová	30	0.11
21.	MSc. Saviz Parsa Saeb	10	0.00
22.	Mgr. Michal Pecz	10	0.10
23.	Mgr. Mária Sekáčová	40	0.40
24.	Mgr. Tatiana Vojteková	10	0.10
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Mgr. Miroslava Blázyová	100	1.00
2.	PhDr. Anna Gömöryová	60	0.90
3.	Ing. Pavol Mozola	100	1.00
4.	Mgr. Vojtech Ogrodnik	40	0.40
5.	Ing. Marta Zofcsáková	100	1.00
6.	Mgr. Eva Žiačiková	100	1.00
Odborní pracovníci ÚSV			

1.	Juraj Arbet	100	1.00
2.	Ján Dérer	60	0.50
3.	Michal Gerboc	100	1.00
4.	Iveta Grófova	100	1.00
5.	Martin Grujbár	100	1.00
6.	Ľubomír Kopera	80	0.80
7.	Peter Martiš	100	1.00
8.	Darina Ružičková	100	1.00
9.	Jana Ryzá	100	1.00
10.	Alena Seifertová	100	1.00
11.	Karol Schwarz	50	0.17
12.	Edita Sýkorová	50	0.50
13.	Edita Šimeková	100	1.00
14.	Stanislav Štefánik	100	1.00
15.	Juraj Tančár	50	0.50
16.	Iveta Tóthová	100	1.00
17.	Michal Vrbovský	100	0.00
18.	Mária Zajíčková	50	0.50
Ostatní pracovníci			
1.	Jolana Častková	100	1.00
2.	Kvetoslava Hamburgová	100	1.00
3.	Iveta Putiková	100	1.00
4.	Róbert Vanek	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	**Dátum odchodu**	**Ročný prepočítaný úväzok**
Vedeckí pracovníci			
1.	Mgr. Konstantin Bublikov, PhD.	31.8.2023	0.67
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Peter Šichman	31.8.2023	0.67
Odborní pracovníci ÚSV			
1.	Magdaléna Krajčírová	31.1.2023	0.08
Ostatní pracovníci			
1.	Ivo Šimek	24.8.2023	0.32

Zoznam doktorandov

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

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

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

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi

Príloha A-2

Projekty riešené v organizácii

Medzinárodné projekty

Programy: COST

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

Zodpovedný riešiteľ:	Ján Kuzmík
Trvanie projektu:	1.11.2021 / 30.10.2025
Evidenčné číslo projektu:	CA20116
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centre des Nanosciences et des Nanotechnologies, C2N-CNRS-UMR9001, Université Paris-Saclay, France
Počet spoluriešiteľských inštitúcií:	31 - Rakúsko: 1, Belgicko: 1, Bulharsko: 1, Bosna a Hercegovina: 1, Cyprus: 1, Česko: 1, Nemecko: 1, Dánsko: 1, Španielsko: 1, Estónsko: 1, Fínsko: 1, Veľká Británia: 1, Grécko: 1, Chorvátsko: 1, Maďarsko: 1, Švajčiarsko: 1, Írsko: 1, Izrael: 1, Taliansko: 1, Litva: 1, Luxembursko: 1, Lotyšsko: 1, Moldavsko: 1, Holandsko: 1, Nórsko: 1, Poľsko: 1, Portugalsko: 1, Rumunsko: 1, Srbsko: 1, Švédsko: 1, Turecko: 1
Čerpané financie:	SAV: 2500 €

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

Zodpovedný riešiteľ:	Enric Pardo
Trvanie projektu:	8.10.2020 / 7.10.2024
Evidenčné číslo projektu:	CA19108
Organizácia je koordinátorom projektu:	nie
Koordinátor:	NOVA.ID.FCT , Caparica
Počet spoluriešiteľských inštitúcií:	27 - Rakúsko: 1, Belgicko: 1, Bulharsko: 1, Bosna a Hercegovina: 1, Brazília: 1, Nemecko: 1, Dánsko: 1, Španielsko: 3, Fínsko: 1, Francúzsko: 1, Veľká Británia: 1, Grécko: 1, Izrael: 1, Taliansko: 1, Luxembursko: 1, Poľsko: 1, Portugalsko: 2, Rumunsko: 1, Srbsko: 2, Slovinsko: 1, Turecko: 2, Ukrajina: 1
Čerpané financie:	SAV: 2500 €

Dosiahnuté výsledky:
Yazdani-Asrami, M., Song, W.J., Morandi, A., De Carne, G., Murta-Pina, J., Pronto, A., Oliveira, R., Grilli, F., Pardo, E., Parizh, M., Shen, B., Coombs, T., Salmi, T., Wu, D., Coatanea, E., Moseley, D.A., Badcock, R.A., Zhang, M.J., Marinozzi, V., Tran, N., Wielgosz, M., Skoczen, A., Tzelepis, D., Meliopoulos, S., Vilhena, N., Sotelo, G., Jiang, Z., Grosse, V., Bagni, T., Mauro, D., Senatore, C., Mankevich, A., Amelichev, V., Samoilenkov, S., Yoon, T.L., Wang, Y., Camata, R.P., Chen, C.C., Madureira, A.M., and Abraham, A.: Roadmap on artificial intelligence and big data techniques for superconductivity, Supercond. Sci Technol. 36 (2023) 043501.

Programy: EUREKA

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

Zodpovedný riešiteľ:	Fedor Gömöry
Trvanie projektu:	1.10.2021 / 31.5.2024
Evidenčné číslo projektu:	Eurostars 2 - E115264
Organizácia je koordinátorom projektu:	nie
Koordinátor:	SUBRA A/S
Počet spoluriešiteľských inštitúcií:	2 - Nemecko: 1, Dánsko: 1
Čerpané financie:	MŠVVŠ SR: 81257 €

Dosiahnuté výsledky:
Gömöry, F., Šouc, J., and Godár, M.: Limitation of current transport in coated conductors: statistical fluctuations or weak spots?, IEEE Trans. Applied Supercond. 33 (2023) 8000105.

Kujovič, T., Ries, R., Mošať, M., and Gömöry, F.: The critical current of REBCO coated conductors subjected to a mechanical loading at varying angles, IEEE Trans. Applied Supercond. 33 (2023) 6601004.

Mošať, M., Šouc, J., Ries, R., and Gömöry, F.: Longitudinal critical current profiles in coated conductors examined by transport and magnetization measurements, IEEE Trans. Applied Supercond. 33 (2023) 6602205.

Solovyov, M., Šouc, J., Kujovič, T., Frolek, L., and Gömöry, F.: Magnetization AC losses in multilayer superconducting round cables with coinciding and opposite lay angles, Supercond. Sci Technol. 36 (2023) 034001.

Gömöry, F., Šouc, J., Godár, M., Hintze, C., and Grosse, V.: Analysis of critical current fluctuations as a means of checking the quality of high-temperature superconductor tape slitting, Supercond. Sci Technol. 36 (2023) 054001.

Programy: International Visegrad Fund (IVF)

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

Zodpovedný riešiteľ:	Viera Skákalová
Trvanie projektu:	1.1.2022 / 31.12.2024
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Dr. Ryo Kitaura
Počet spoluriešiteľských inštitúcií:	4 - Česko: 1, Maďarsko: 1, Japonsko: 1, Poľsko: 1
Čerpané financie:	SAV: 28418 €

Dosiahnuté výsledky:
Hofer, Ch., Mustonen, K., Skákalová, V., and Pennycook, T.J.: Picometer-precision few-tilt ptychotomography of 2D materials, 2D Mater. 10 (2023) 035029.

Programy: Bilaterálne - iné

5.) Topologicky netriviálne fázy vrstvených dichalkogenidov prechodných kovov *(Topologically nontrivial phases of layered transition-metal dichalcogenides)*

Zodpovedný riešiteľ:	Martin Hulman
Trvanie projektu:	1.1.2023 / 31.12.2024
Evidenčné číslo projektu:	SASA-SAS-2022-01
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Srbsko: 1
Čerpané financie:	SAV: 2776 €

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

Zodpovedný riešiteľ:	Martin Hulman
Trvanie projektu:	1.1.2023 / 31.12.2025
Evidenčné číslo projektu:	MSC_SAS_MOST 2022
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 30975 €

Dosiahnuté výsledky:
Vojteková, T., Pribusová Slušná, L., Dobročka, E., Precner, M., Sojková, M., Hrdá, J., Gregor, M., and Hulman, M.: Fourier-transform infrared spectroscopy of $MoTe_2$ thin films, Phys. Status Solidi B 260 (2023) 2300250.

7.) Vybudovanie laboratória pre výskum spoľahlivosti výkonových modulov a spoločný výskum v oblasti GaN a Ga_2O_3 polovodičových výkonových súčiastok *(Establishment of reliability laboratory for pawer modules and joint reserch of GaN and Ga_2O_3 power devices)*

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

Programy: ERANET

8.) 3D tlač atomárnych vrstiev ako nová paradigma pre múdru senzoriku *(Atomic-layer 3D printing as a new paradigm for smart sensorics)*

Zodpovedný riešiteľ:	Boris Hudec
Trvanie projektu:	1.6.2023 / 31.5.2026
Evidenčné číslo projektu:	M-ERA.net 10418
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	3 - Dánsko: 1, Slovensko: 1, Taiwan: 1
Čerpané financie:	SAV: 11597 €

Dosiahnuté výsledky:
Hudec, B., Ščepka, T., Horský, M., Nádaždy, P., Vetrova, I., Predanocy, M., Nemec, P., Andok, R., Patrnčiak, M., and Plecenik, T.: Hydrogen sensing characteristics of TiO_2 thin films grown by atomic layer depositon using TTIP precursor with H_2O vs. O_3 reactants. In: 13th Inter. Conf. Nanomater.: Appl. & Properties - IEEE NAP-2023. Bratislava 2023. Výveska.

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

Zodpovedný riešiteľ:	Štefan Chromik
Trvanie projektu:	1.4.2020 / 31.3.2023
Evidenčné číslo projektu:	FLAG-ERA III/2019/884/ETMOS
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Consiglio Nazionale delle Ricerche – Istituto per la Microelettronica e Microsistemi
Počet spoluriešiteľských inštitúcií:	4 - Francúzsko: 1, Maďarsko: 1, Taliansko: 2
Čerpané financie:	EU: 3708 € Podpora medzinárodnej spolupráce z národných zdrojov: 6250 €

Dosiahnuté výsledky:
Hrdá, J., Moško, M., Vojteková, T., Pribusová Slušná, L., Precner, M., Hulman, M., Španková, M., Chromik, Š., and Sojková, M.: Electron transport in lithium-doped few-layer MoS_2 films. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 83-86.

Španková, M., Chromik, Š., Dobročka, E., Pribusová Slušná, L., Talacko, M., Gregor, M., Pécz, B., Koos, A., Greco, G., Panasci, S.E., Fiorenza, P., Roccaforte, F., Cordier, Y., Frayssinet, E., and Giannazzo, F.: Large-area MoS_2 films grown on sapphire and GaN substrates by pulsed laser deposition, Nanomater. 13 (2023) 2837.

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

Mater. Interfaces 10 (2023) 2201502.

Programy: Horizont 2020

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

Zodpovedný riešiteľ:	Enric Pardo
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	H2020-951714
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centre National De La Recherche Scientifique CNRS
Počet spoluriešiteľských inštitúcií:	9 - Belgicko: 1, Nemecko: 3, Francúzsko: 1, Veľká Británia: 1, Švajčiarsko: 1, Holandsko: 2
Čerpané financie:	EU: 48279 € Podpora medzinárodnej spolupráce z národných zdrojov: 4928 €

Dosiahnuté výsledky:
Pardo, E. and Dadhich, A.: Electro-thermal modelling by novel variational methods: racetrack coil in short-circuit, IEEE Trans. Applied Supercond. 33 (2023) 5201606.

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

Zodpovedný riešiteľ:	Eugen Seiler
Trvanie projektu:	1.5.2021 / 30.4.2025
Evidenčné číslo projektu:	H2020-101004730
Organizácia je koordinátorom projektu:	nie
Koordinátor:	European Organization For Nuclear Research - CERN
Počet spoluriešiteľských inštitúcií:	20 - Rakúsko: 1, Nemecko: 2, Španielsko: 2, Estónsko: 1, Francúzsko: 4, Veľká Británia: 1, Maďarsko: 1, Švajčiarsko: 2, Taliansko: 1, Lotyšsko: 1, Holandsko: 1, Poľsko: 1, Slovensko: 1, Švédsko: 1
Čerpané financie:	EU: 11473 € Podpora medzinárodnej spolupráce z národných zdrojov: 4928 €

Programy: Horizont Európa

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

Zodpovedný riešiteľ:	Fedor Gömöry
Trvanie projektu:	1.9.2022 / 28.2.2027
Evidenčné číslo projektu:	Horizont Európa-101075602
Organizácia je koordinátorom projektu:	nie
Koordinátor:	SINTEF ENERGI AS, Trondheim
Počet spoluriešiteľských inštitúcií:	13 - Nemecko: 3, Francúzsko: 4, Írsko: 1, Taliansko: 4, Portugalsko: 1

Čerpané financie:	EU: 92515 € Podpora medzinárodnej spolupráce z národných zdrojov: 6571 €

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

Zodpovedný riešiteľ:	Ján Kuzmík
Trvanie projektu:	1.12.2022 / 30.11.2025
Evidenčné číslo projektu:	Horizont Európa-101091433
Organizácia je koordinátorom projektu:	nie
Koordinátor:	THALES
Počet spoluriešiteľských inštitúcií:	10 - Nemecko: 2, Španielsko: 1, Veľká Británia: 1, Grécko: 3, Taliansko: 1, Rumunsko: 1, Švédsko: 1
Čerpané financie:	EU: 69218 €

Programy: EDF

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

Zodpovedný riešiteľ:	Ján Kuzmík
Trvanie projektu:	15.12.2022 / 14.12.2026
Evidenčné číslo projektu:	101102983
Organizácia je koordinátorom projektu:	nie
Koordinátor:	United Monolithic Semiconductors GmbH
Počet spoluriešiteľských inštitúcií:	15 - Belgicko: 1, Nemecko: 2, Španielsko: 3, Fínsko: 1, Francúzsko: 1, Grécko: 1, Chorvátsko: 1, Taliansko: 2, Litva: 1, Holandsko: 1, Švédsko: 1
Čerpané financie:	EU: 74103 €

Dosiahnuté výsledky:
Blaho, M., Gucmann, F., Eliáš, P., Gregušová, D., Hasenöhrl, S., and Kuzmík, J.: MOCVD growth of highly Si doped GaN from triethylgallium. In: 14th Inter. Conf. Nitride Semicond. ICNS. Fukuoka 2023. Vyveska.

Programy: Digital Europe Programme

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

Zodpovedný riešiteľ:	Mário Ziman
Zodpovedný riešiteľ v organizácii SAV:	Vladimír Cambel
Trvanie projektu:	1.1.2023 / 30.6.2025
Evidenčné číslo projektu:	101091548
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fyzikálny ústav SAV, v. v. i.

Počet spoluriešiteľských inštitúcií:	13 - Slovensko: 13
Čerpané financie:	SAV: 74516 €

Domáce projekty

Programy: VEGA

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

Zodpovedný riešiteľ:	Juraj Feilhauer
Trvanie projektu:	1.1.2021 / 31.12.2023
Evidenčné číslo projektu:	2/0177/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 3079 €

Dosiahnuté výsledky:
Feilhauer, J., Tóbik, J., Šoltýs, J., and Cambel, V.: Numerical characterization of magnetic vortex probe imaging for magnetic force microscopy, IEEE Trans. Magnet. 59 (2023) 6500210.

Feilhauer, J., Zelent, M., Zhang, Z., Christensen, J., and Mruczkiewicz, M.: Unidirectional spin-wave edge modes in magnonic crystal, APL Mater. 11 (2023) 021104.

Tóbik, J.: Dynamical symmetry breaking in magnetic systems, Phys. Status Solidi RRL 17 (2013) 2200459.

Ščepka, T., Feilhauer, J., Tóbik, J., Krylov, S., Kalmykova, T., Cambel, V., and Mruczkiewicz, M.: Control of closure domain state circulation in coupled triangular permalloy elements using MFM tip, J. Applied Phys. 134 (2023) 213902.

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

Zodpovedný riešiteľ:	Fedor Gömöry
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	1/0205/21
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Materiálovotechnologická fakulta STU
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 3845 €

Dosiahnuté výsledky:
Gömöry, F., Šouc, J., and Godár, M.: Limitation of current transport in coated conductors: statistical fluctuations or weak spots?, IEEE Trans. Applied Supercond. 33 (2023) 8000105.

Ries, R., Hlaváč, D., Solovyov, M., and Gömöry, F.: Induced delamination in REBCO coated-conductor tape by a scratch line and bending, Physica C 613 (2023) 1354358.

Ries, R., Gömöry, F., Mošať, M., Kujovič, T., Hintze, C., and Gil, P.: Effect of off-axis bending on microstructural and transport properties of coated conductor tape, Supercond. Sci Technol. 36 (2023) 014006.

Gömöry, F., Šouc, J., Godár, M., Hintze, C., and Grosse, V.: Analysis of critical current fluctuations as a means of checking the quality of high-temperature superconductor tape slitting, Supercond. Sci Technol. 36 (2023) 054001.

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

Zodpovedný riešiteľ:	Dagmar Gregušová
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0068/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 13153 €

Dosiahnuté výsledky:
Gregušová, D., Pohorelec, O., Eliáš, P., Stoklas, R., Dobročka, E., Kučera, M., Blaho, M., and Kúdela, R.: III-V semiconductor nanomembranes in device technology. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 138-141.

Kuzmík, J., Pohorelec, O., Hasenöhrl, S., Blaho, M., Stoklas, R., Dobročka, E., Rosová, A., Kučera, M., Gucmann, F., Gregušová, D., Precner, M., and Vincze, A.: Mg doping of N-polar, in-rich InAlN, Materials, 16 (2023) 2250.

Chvála, A., Kováč, J., Gregušová, D., Ťapajna, M., Gucmann, F., Marek, J., and Florovič, M.: 3D thermal simulation of GaAs-based HEMT on foreign substrates. In: 5th Inter. Conf. Microelectr. Devices Technol. MicDAT 2023. IFSA Publ. 2023. ISBN 978-84-09-53748-8, pp. 20-23.

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

Zodpovedný riešiteľ:	Boris Hudec
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0162/22
Organizácia je koordinátorom projektu:	áno

Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 10635 €

5.) Supravodivé spoje pre MgB_2 vinutia v perzistentnom móde *(Superconducting joints of MgB2 wires for windings in persistent mode)*

Zodpovedný riešiteľ:	Pavol Kováč
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0017/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 15453 €

Dosiahnuté výsledky:
Hušek, I., Kováč, P., Melišek, T., and Hain, M.: Transport currents and micro-structure of superconducting joint between MgB_2/Ni and MgB_2/Nb wires made by IMD process, Ceramics Inter. 49 (2023) 11178-11183.

Búran, M., Kopera, L., Melišek, T., and Kováč, P.: E–I characteristics and critical currents of small Bi-2223/Ag coil thermally stabilized by solid and liquid nitrogen compared to water ice, Supercond. Sci Technol. 36 (2023) 105013.

Srivastava, N., Mehrotra, S., Sharma, D., Shalini, Búran, M., Hušek, I., Goswami, Kováč, P., and Santra, S.: Effect of wire diameter on structure and electrical properties of (Al + Al_2O_3)-sheathed MgB_2 with Nb barrier, Ceram. Inter. 49 (2023) A34627-34637.

Srivastava, N., Mehrotra, S., Búran, M., Hušek, I., Sharma, D., Kováč, P., and Santra, S.: Interfacial reactions and critical current density of Cu-sheathed Cu-doped MgB_2 wire with Ti diffusion barrier, J. Alloys Comp. 966 (2023) 171657.

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

Zodpovedný riešiteľ:	Ján Kuzmík
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0005/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 18449 €

Dosiahnuté výsledky:
Hasenöhrl, S., Blaho, M., Dobročka, E., Gucmann, F., Kučera, M., Nádaždy, P., Stoklas, R., Rosová, A., and Kuzmík, J.: Growth of N-polar In-rich InAlN by metal organic chemical vapor

deposition on on- and off-axis sapphire, Mater. Sci Semicond. Process. 156 (2023) 107290.

Kuzmík, J., Pohorelec, O., Hasenöhrl, S., Blaho, M., Stoklas, R., Dobročka, E., Rosová, A., Kučera, M., Gucmann, F., Gregušová, D., Precner, M., and Vincze, A.: Mg doping of N-polar, in-rich InAlN, Materials, 16 (2023) 2250.

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

Šichman, P., Stoklas, R., Hasenöhrl, S., Gregušová, D., Ťapajna, M., Hudec, B., Haščík, Š., Hashizume, T., Chvála, A., Šatka, A., and Kuzmík, J.: Vertical GaN transistor with semi-insulating channel, Physica Status Solidi (a) 220 (2023) SI2200776.

Stoklas, R., Hasenöhrl, S., Dobročka, E., Gucmann, F., Rosová, M. Blaho, M. Kučera, M., Ruterana, P., Chauvat, M.P., Kret, S., Kaleta, A., and Kuzmík, J.: Transport properties of thin InN layers grown on Mg-doped InAlN buffers. In: 14th Inter. Conf. Nitride Semicond. ICNS. Fukuoka 2023. Prednáška

Blaho, M., Gucmann, F., Eliáš, P., Gregušová, D., Hasenöhrl, S., and Kuzmík, J.: MOCVD growth of highly Si doped GaN from triethylgallium. In: 14th Inter. Conf. Nitride Semicond. ICNS. Fukuoka 2023. Vývеska.

7.) Rast a optická charakterizácia 2D materiálov: $MoTe_2$, WTe_2, $PtTe_2$ *(Growth and optical characterization of 2D materials: $MoTe_2$, WTe_2, $PtTe_2$)*

Zodpovedný riešiteľ:	Lenka Pribusová Slušná
Trvanie projektu:	1.1.2023 / 31.12.2025
Evidenčné číslo projektu:	2/0046/23
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 4337 €

Dosiahnuté výsledky:
Pribusová Slušná, L., Vegso, K., Dobročka, E., Vojteková, T., Nádaždy, P., Halahovets, Y., Sojková, M., Hrdá, J., Precner, M., Šiffalovič, P., Chen, Z., Huang, Y., Ražnjević, S., Zhang, Z., and Hulman, M.: Ordered growth of hexagonal and monoclinic phases of $MoTe_2$ on a sapphire substrate, CrystEngComm 25 (2023) 5706-5713. 3.1 - IF, Q1 - JCR

Vojteková, T., Pribusová Slušná, L., Dobročka, E., Precner, M., Sojková, M., Hrdá, J., Gregor, M., and Hulman, M.: Fourier-transform infrared spectroscopy of $MoTe_2$ thin films, Phys. Status Solidi B 260 (2023) 2300250.

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

Zodpovedný riešiteľ:	Eugen Seiler
Trvanie projektu:	1.1.2021 / 31.12.2023
Evidenčné číslo projektu:	2/0036/21

Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 25526 €

Dosiahnuté výsledky:
Fracasso, M., Gömöry, F., Solovyov, M., Gerbaldo, R., Ghigo, G., Laviano, F., Sparacio, S., Torsello, D., and Gozzelino, L.: Numerical study on flux-jump occurrence in a cup-shaped MgB_2 bulk for magnetic shielding applications, Supercond. Sci Technol. 36 (2023) 044001.

Li, S. and Pardo, E.: Numerical modelling of soldered superconducting REBCO stacks of tapes suggests strong reduction in cross-field demagnetization, Sci Rep. 13 (2023) 1087.

Mošať, M., Šouc, J., Ries, R., and Gömöry, F.: Longitudinal critical current profiles in coated conductors examined by transport and magnetization measurements, IEEE Trans. Applied Supercond. 33 (2023) 6602205.

Pardo, E. and Dadhich, A.: Electro-thermal modelling by novel variational methods: racetrack coil in short-circuit, IEEE Trans. Applied Supercond. 33 (2023) 5201606.

Ries, R., Seiler, E., Gömöry, F., Medvids, A., Onufrijevs, P., Pira, C., Chyhyrynets, E., Malyshev, O.B., Valizadeh, R., Leith, S., and Vogel, M.: Numerical calculation of magnetic field enhancement and impact of surface defects on premature entry of magnetic field in thin Nb films for SRF cavities, IEEE Trans. Applied Supercond. 33 (2023) 3500405.

Solovyov, M., Šouc, J., Kujovič, T., Frolek, L., and Gömöry, F.: Magnetization AC losses in multilayer superconducting round cables with coinciding and opposite lay angles, Supercond. Sci Technol. 36 (2023) 034001.

9.) Príprava, charakterizácia a dopovanie ultratenkých vrstiev dichalkogenidov prechodných kovov *(Fabrication, characterization, and doping of ultra-thin layers of transition metal dichalcogenides)*

Zodpovedný riešiteľ:	Michaela Sojková
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0059/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 13209 €

Dosiahnuté výsledky:
Hrdá, J., Moško, M., Vojteková, T., Pribusová Slušná, L., Precner, M., Hulman, M., Španková, M., Chromik, Š., and Sojková, M.: Electron transport in lithium-doped few-layer MoS_2 films. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 83-86.

Sojková, M., Píš, I., Hrdá, J., Vojteková, T., Pribusová Slušná, L., Vegso, K., Šiffalovič, P., Nádaždy, P., Dobročka, E., Krbal, M., Fons, P.J., Munnik, F., Magnano, E., Hulman, M., and Bondino, F.: Lithium-induced reorientation of few-layer MoS_2 films, Chem. Mater. 35 (2023) 6246-6257.

Ondrejka, P., Sojková, M., Kotok, V., Novák, P., Hotovy, I., Kemény, M., and Mikolášek, M.: Tuning the electrochemical properties of NiS_2 2D-nanoflakes by one-zone sulfurization for supercapacitor applications, Mater. Res. Express 10 (2023) 10 065508.

Sojková, M., Hrdá, J., Vojteková, T., Pribusová Slušná, L., Végsö, K., Dobročka, E., Šiffalovič, P., and Hulman, M.: Novel approach in fabrication of few-layer transition metal dichalcogenide films. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 32-35.

Varga, M., Sojková, M., Hrdá, J., Hutár, P., Parza Saeb, S., Vanko, G., Pribusová-Slušná, L., Ondic, L., Fait, J., Kromka, A., and Hulman, M.: Technological challenges in the fabrication of MoS_2/diamond heterostructures. In NANOCON 2022. Proc. 14th Inter. Conf. Nanomater. – Res. & Appl. Ostrava. Tanger Ltd. 2023, pp 21-27. ISBN: 978-80-88365-09-9.

Vojteková, T., Pribusová Slušná, L., Dobročka, E., Precner, M., Sojková, M., Hrdá, J., Gregor, M., and Hulman, M.:Fourier-transform infrared spectroscopy of $MoTe_2$ thin films, Phys. Status Solidi B 260 (2023) 2300250. 1.6 - IF, Q4 - JCR

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

Zodpovedný riešiteľ:	Ján Šoltýs
Trvanie projektu:	1.1.2022 / 31.12.2024
Evidenčné číslo projektu:	2/0168/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 16062 €

Dosiahnuté výsledky:
Vetrova, I., Feilhauer, J., Cambel, V., and Šoltýs, J.: MFM tip with a ferromagnetic disk-shaped apex for large domain scanning, IEEE Trans. on Nanotechnol. 22 (2023) 634-640.

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

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

inštitúcií:
Čerpané financie: VEGA: 5209 €

Dosiahnuté výsledky:
Španková, M., Chromik, Š., Dobročka, E., Pribusová Slušná, L., Talacko, M., Gregor, M., Pécz, B., Koos, A., Greco, G., Panasci, S.E., Fiorenza, P., Roccaforte, F., Cordier, Y., Frayssinet, E., and Giannazzo, F.: Large-area MoS_2 films grown on sapphire and GaN substrates by pulsed laser deposition, Nanomater. 13 (2023) 2837.

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

Zodpovedný riešiteľ:	Milan Ťapajna
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0100/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 14324 €

Dosiahnuté výsledky:
Dobročka, E., Gucmann, F., Hušeková, K., Nádaždy, P., Hrubišák, F., Egyenes, F., Rosová, A., Mikolášek, M., and Ťapajna, M.: Structure and thermal stability of ε/κ-Ga_2O_3 films deposited by liquid-injection MOCVD, Materials 16 (2023) 20.

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

Gucmann, F., Nádaždy, P., Hušeková, K., Dobročka, E., Priesol, J., Egyenes, F., Šatka, A., Rosová, A., and Ťapajna, M.: Thermal stability of rhombohedral α- and monoclinic β-Ga_2O_3 grown on sapphire by liquid-injection MOCVD, Mater. Sci Semicond. Process. 156 (2023) 107289.

Hrubišák, F., Hušeková, K., Zheng, X., Rosová, A., Dobročka, E., Ťapajna, M., Mičušík, M., Nádaždy, P., Egyenes, F., Keshtkar, J., Kováčová, E., Pomeroy, J.W., Kuball, M., and Gucmann, F.: Heteroepitaxial growth of Ga_2O_3 on 4H-SiC by liquid-injection MOCVD for improved thermal management of Ga_2O_3 power devices, J. Vacuum Sci Technol. A 41 (2023) 042708.

Hrubišák, F., Hušeková, K., Zheng, X., Rosová, A., Dobročka, E., Ťapajna, M., Mičušík, M., Nádaždy, P., Egyenes, F., Keshtar, J., Kováčová, E., Pomeroy, J.W., Kuball, M., and Gucmann, F.: Material properties of MOCVD-grown β- and κ-Ga_2O_3 thin films on 4H-SiC substrates. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 87-90.

Yuan, C., Mao, Y., Meng, B., Xiao, X., Hrubišák, F., Egyenes, F., Dobročka, E., Hušeková, K., Rosová, A., Eliáš, P., Keshtkar, J., Ťapajna, M., and Gucmann, F.: Thermal properties of Ga_2O_3 films and interfaces grown by MOCVD. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 36-39.

Ťapajna, M., Keshtkar, J., Szabó, O., Shagieva, E., Hušeková, K., Dobročka, E., Fedor, J., Dérer, J., Kromka, A., and Gucmann, F.: Growth of nanocrystalline diamond on gallium oxide using various interlayers. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 28-31.

Egyenes, F., Chikoidze, E., Gucmann, F., Chi, Z., Precner, M., Moško, M., Hušeková, K., Dobročka, E., Rosová, A., Hrubišák, F., Keshtkar, J., Chouhan, H., and Ťapajna, M.: Effect of hydrogen in Si-doped β-Ga_2O_3 grown by liquid injection MOCVD. In: E-MRS 2023 Fall Meeting. Varšava 2023. Prednáška.

Chouhan, H., Egyenes, F., Rosová, A., Hušeková, K., Dobročka, E., Nádaždy, P., Ťapajna, M., Xiao, X., Mao, Y., Meng, B., Ma, G., Yuan, C., and Gucmann, F.: Heteroepitaxy of (010) β-Ga_2O_3 on sapphire substrates using liquid-injection MOCVD. In: E-MRS 2023 Fall Meeting, Varšava 2023. Prednáška.

Xiao, X., Gucmann, F., Ťapajna, M., and Yuan, C.: Lattice thermal conductivity in α/β/κ-phase Ga_2O_3 from first principles. In 3rd Inter. Symp. Multiscale Simul. Thermophys. MSTP 2023. Shenzhen (China) 2023. Prednáška.

Mao, Y., Xiao, X., Ťapajna, M., Hušeková, K., Egyenes, F., Gucmann, F., and Yuan, C.: Thermal conductivities and interface thermal resistance of different phases (α, β, and κ) Ga_2O_3 thin films. In 24th National Semicond. Phys. Conf. SPC 2023. Shanghai 2023. Prednáška.

Ťapajna, M., Egyenes, F., Hrubišák, F., Hušeková, K., Dobročka, E., Nádaždy, P., Rosová, A., Chouhan, H., Keshtkar, J., and Gucmann, F.: Liquid-injection MOCVD-grown Ga_2O_3 on sapphire and 4H-SiC substrates: Material, transport, and MOSFET properties. In: Inter. Meeting for Future of Electron Dev. IMFEDK 2023. Kyoto 2023. Pozvaná prednáška.

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

Zodpovedný riešiteľ:	Zdenko Zápražný
Trvanie projektu:	1.1.2021 / 31.12.2023
Evidenčné číslo projektu:	2/0041/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 8164 €

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

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

inštitúcií:
Čerpané financie: VEGA: 5954 €

Dosiahnuté výsledky:
Gál, N., Hrubčín, L., Šagátová, A., Vanko, G., Kováčová, E., and Zaťko, B.: High-resolution alpha-particle detector based on Schottky barrier 4H-SiC detector operated at elevated temperatures up to 500 °C, Applied Surface Sci 635 (2023) 157708.

Huran, J., Skrypnik, A.V., Dujnič, V., Doroshkevich, A.S., Zaťko, B., Nozdrin, M.A., Kováčová, E., and Shirkov, G.D.: Raman spectroscopy study of very thin carbon films prepared by electron beam-plasma vacuum deposition. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 67-70.

Šagátová, A., Novák, A., Kováčová, E., Riabukhin, O., Kotorová, S., and Zaťko, B.: Radiation-degraded SI GaAs detectors and their metallization, AIP Conf. Proc. 2778 (2023) 060009.

Kotorová, S., Šagátová, A., Vanko, G., Boháček, P., and Zaťko, B.: Effect of thermal annealing on 4H-SiC radiation detector, AIP Conf. Proc. 2778 (2023) 060004.

Zaťko, B., Hrubčín, L., Boháček, P., Gurov, Y.B., Rozov, S.V., Evseev, S.A., Bulavin, M.V., Zamiatin, N.I., Kopylov, Y.A., Sekáčová, M., and Kováčová, E.: Spectrometric performance of 4H-SiC detectors after neutron irradiation, AIP Conf. Proc. 2778 (2023) 060012.

Novák, A., Šagátová, A., and Zaťko, B.: Energy calibration of timepix detector with GaAs sensor, AIP Conf. Proc. 2778 (2023) 050004.

Sedlačková, K., Zaťko, B., and Nečas V.: Spectrometry of electron irradiated CdTe Schottky-barrier semiconductor detectors before polarization onset, AIP Conf. Proc. 2778 (2023) 060010.

Programy: APVV

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

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

Dosiahnuté výsledky:
Gömöry, F., Šouc, J., and Godár, M.: Limitation of current transport in coated conductors: statistical fluctuations or weak spots?, IEEE Trans. Applied Supercond. 33 (2023) 8000105.

Ries, R., Hlaváč, D., Solovyov, M., and Gömöry, F.: Induced delamination in REBCO coated-conductor tape by a scratch line and bending, Physica C 613 (2023) 1354358.

Ries, R., Gömöry, F., Mošať, M., Kujovič, T., Hintze, C., and Gil, P.: Effect of off-axis bending on

microstructural and transport properties of coated conductor tape, Supercond. Sci Technol. 36 (2023) 014006.

Solovyov, M., Šouc, J., Kujovič, T., Frolek, L., and Gömöry, F.: Magnetization AC losses in multilayer superconducting round cables with coinciding and opposite lay angles, Supercond. Sci Technol. 36 (2023) 034001.

Gömöry, F., Šouc, J., Godár, M., Hintze, C., and Grosse, V.: Analysis of critical current fluctuations as a means of checking the quality of high-temperature superconductor tape slitting, Supercond. Sci Technol. 36 (2023) 054001.

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

Zodpovedný riešiteľ:	Dagmar Gregušová
Trvanie projektu:	1.7.2022 / 30.6.2025
Evidenčné číslo projektu:	APVV-21-0365
Organizácia je koordinátorom projektu:	nie
Koordinátor:	STU Bratislava
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 24870 €

Dosiahnuté výsledky:
Gregušová, D., Pohorelec, O., Eliáš, P., Stoklas, R., Dobročka, E., Kučera, M., Blaho, M., and Kúdela, R.: III-V semiconductor nanomembranes in device technology. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 138-141.

Chvála, A., Kováč, J., Gregušová, D., Ťapajna, M., Gucmann, F., Marek, J., and Florovič, M.: 3D thermal simulation of GaAs-based HEMT on foreign substrates. In: 5th Inter. Conf. Microelectr. Devices Technol. MicDAT 2023. IFSA Publ. 2023. ISBN 978-84-09-53748-8, pp. 20-23.

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

Zodpovedný riešiteľ:	Dagmar Gregušová
Trvanie projektu:	1.7.2022 / 30.6.2026
Evidenčné číslo projektu:	APVV-21-0278
Organizácia je koordinátorom projektu:	nie
Koordinátor:	STU Bratislava
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 35207 €

Dosiahnuté výsledky:
Hrdá, J., Moško, M., Vojteková, T., Pribusová Slušná, L., Precner, M., Hulman, M., Španková, M., Chromik, Š., and Sojková, M.: Electron transport in lithium-doped few-layer MoS_2 films. In Proc.

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Sojková, M., Hrdá, J., Vojteková, T., Pribusová Slušná, L., Végsö, K., Dobročka, E., Šiffalovič, P., and Hulman, M.: Novel approach in fabrication of few-layer transition metal dichalcogenide films. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 32-35.

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

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

Dosiahnuté výsledky:

Dobročka, E., Gucmann, F., Hušeková, K., Nádaždy, P., Hrubišák, F., Egyenes, F., Rosová, A., Mikolášek, M., and Ťapajna, M.: Structure and thermal stability of ε/κ-Ga_2O_3 films deposited by liquid-injection MOCVD, Materials 16 (2023) 20.

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

Gucmann, F., Nádaždy, P., Hušeková, K., Dobročka, E., Priesol, J., Egyenes, F., Šatka, A., Rosová, A., and Ťapajna, M.: Thermal stability of rhombohedral α- and monoclinic β-Ga_2O_3 grown on sapphire by liquid-injection MOCVD, Mater. Sci Semicond. Process. 156 (2023) 107289.

Hrubišák, F., Hušeková, K., Zheng, X., Rosová, A., Dobročka, E., Ťapajna, M., Mičušík, M., Nádaždy, P., Egyenes, F., Keshtkar, J., Kováčová, E., Pomeroy, J.W., Kuball, M., and Gucmann, F.: Heteroepitaxial growth of Ga_2O_3 on 4H-SiC by liquid-injection MOCVD for improved thermal management of Ga_2O_3 power devices, J. Vacuum Sci Technol. A 41 (2023) 042708.

Hrubišák, F., Hušeková, K., Zheng, X., Rosová, A., Dobročka, E., Ťapajna, M., Mičušík, M., Nádaždy, P., Egyenes, F., Keshtar, J., Kováčová, E., Pomeroy, J.W., Kuball, M., and Gucmann, F.: Material properties of MOCVD-grown β- and κ-Ga_2O_3 thin films on 4H-SiC substrates. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 87-90.

Yuan, C., Mao, Y., Meng, B., Xiao, X., Hrubišák, F., Egyenes, F., Dobročka, E., Hušeková, K., Rosová, A., Eliáš, P., Keshtkar, J., Ťapajna, M., and Gucmann, F.: Thermal properties of Ga_2O_3 films and interfaces grown by MOCVD. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 36-39.

Ťapajna, M., Keshtkar, J., Szabó, O., Shagieva, E., Hušeková, K., Dobročka, E., Fedor, J., Dérer, J.,

Kromka, A., and Gucmann, F.: Growth of nanocrystalline diamond on gallium oxide using various interlayers. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 28-31.

Egyenes, F., Chikoidze, E., Gucmann, F., Chi, Z., Precner, M., Moško, M., Hušeková, K., Dobročka, E., Rosová, A., Hrubišák, F., Keshtkar, J., Chouhan, H., and Ťapajna, M.: Effect of hydrogen in Si-doped β-Ga_2O_3 grown by liquid injection MOCVD. In: E-MRS 2023 Fall Meeting. Varšava 2023. Prednáška.

Chouhan, H., Egyenes, F., Rosová, A., Hušeková, K., Dobročka, E., Nádaždy, P., Ťapajna, M., Xiao, X., Mao, Y., Meng, B., Ma, G., Yuan, C., and Gucmann, F.: Heteroepitaxy of (010) β-Ga_2O_3 on sapphire substrates using liquid-injection MOCVD. In: E-MRS 2023 Fall Meeting, Varšava 2023. Prednáška.

Xiao, X., Gucmann, F., Ťapajna, M., and Yuan, C.: Lattice thermal conductivity in α/β/κ-phase Ga_2O_3 from first principles. In 3rd Inter. Symp. Multiscale Simul. Thermophys. MSTP 2023. Shenzhen (China) 2023. Prednáška.

Mao, Y., Xiao, X., Ťapajna, M., Hušeková, K., Egyenes, F., Gucmann, F., and Yuan, C.: Thermal conductivities and interface thermal resistance of different phases (α, β, and κ) Ga_2O_3 thin films. In 24th National Semicond. Phys. Conf. SPC 2023. Shanghai 2023. Prednáška.

Ťapajna, M., Egyenes, F., Hrubišák, F., Hušeková, K., Dobročka, E., Nádaždy, P., Rosová, A., Chouhan, H., Keshtkar, J., and Gucmann, F.: Liquid-injection MOCVD-grown Ga_2O_3 on sapphire and 4H-SiC substrates: Material, transport, and MOSFET properties. In: Inter. Meeting for Future of Electron Dev. IMFEDK 2023. Kyoto 2023. Pozvaná prednáška.

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

Zodpovedný riešiteľ:	Filip Gucmann
Trvanie projektu:	1.1.2022 / 31.12.2023
Evidenčné číslo projektu:	SK-CN-21-0013
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 6220 €

Dosiahnuté výsledky:

Dobročka, E., Gucmann, F., Hušeková, K., Nádaždy, P., Hrubišák, F., Egyenes, F., Rosová, A., Mikolášek, M., and Ťapajna, M.: Structure and thermal stability of ε/κ-Ga_2O_3 films deposited by liquid-injection MOCVD, Materials 16 (2023) 20.

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

Gucmann, F., Nádaždy, P., Hušeková, K., Dobročka, E., Priesol, J., Egyenes, F., Šatka, A., Rosová, A., and Ťapajna, M.: Thermal stability of rhombohedral α- and monoclinic β-Ga_2O_3 grown on

sapphire by liquid-injection MOCVD, Mater. Sci Semicond. Process. 156 (2023) 107289.

Hrubišák, F., Hušeková, K., Zheng, X., Rosová, A., Dobročka, E., Ťapajna, M., Mičušík, M., Nádaždy, P., Egyenes, F., Keshtkar, J., Kováčová, E., Pomeroy, J.W., Kuball, M., and Gucmann, F.: Heteroepitaxial growth of Ga_2O_3 on 4H-SiC by liquid-injection MOCVD for improved thermal management of Ga_2O_3 power devices, J. Vacuum Sci Technol. A 41 (2023) 042708.

Hrubišák, F., Hušeková, K., Zheng, X., Rosová, A., Dobročka, E., Ťapajna, M., Mičušík, M., Nádaždy, P., Egyenes, F., Keshtar, J., Kováčová, E., Pomeroy, J.W., Kuball, M., and Gucmann, F.: Material properties of MOCVD-grown β- and κ-Ga_2O_3 thin films on 4H-SiC substrates. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 87-90.

Yuan, C., Mao, Y., Meng, B., Xiao, X., Hrubišák, F., Egyenes, F., Dobročka, E., Hušeková, K., Rosová, A., Eliáš, P., Keshtkar, J., Ťapajna, M., and Gucmann, F.: Thermal properties of Ga_2O_3 films and interfaces grown by MOCVD. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 36-39.

Ťapajna, M., Keshtkar, J., Szabó, O., Shagieva, E., Hušeková, K., Dobročka, E., Fedor, J., Dérer, J., Kromka, A., and Gucmann, F.: Growth of nanocrystalline diamond on gallium oxide using various interlayers. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 28-31.

Chvála, A., Kováč, J., Gregušová, D., Ťapajna, M., Gucmann, F., Marek, J., and Florovič, M.: 3D thermal simulation of GaAs-based HEMT on foreign substrates. In: 5th Inter. Conf. Microelectr. Devices Technol. MicDAT 2023. IFSA Publ. 2023. ISBN 978-84-09-53748-8, pp. 20-23.

Egyenes, F., Chikoidze, E., Gucmann, F., Chi, Z., Precner, M., Moško, M., Hušeková, K., Dobročka, E., Rosová, A., Hrubišák, F., Keshtkar, J., Chouhan, H., and Ťapajna, M.: Effect of hydrogen in Si-doped β-Ga_2O_3 grown by liquid injection MOCVD. In: E-MRS 2023 Fall Meeting. Varšava 2023. Prednáška.

Chouhan, H., Egyenes, F., Rosová, A., Hušeková, K., Dobročka, E., Nádaždy, P., Ťapajna, M., Xiao, X., Mao, Y., Meng, B., Ma, G., Yuan, C., and Gucmann, F.: Heteroepitaxy of (010) β-Ga_2O_3 on sapphire substrates using liquid-injection MOCVD. In: E-MRS 2023 Fall Meeting, Varšava 2023. Prednáška.

Xiao, X., Gucmann, F., Ťapajna, M., and Yuan, C.: Lattice thermal conductivity in α/β/κ-phase Ga_2O_3 from first principles. In 3rd Inter. Symp. Multiscale Simul. Thermophys. MSTP 2023. Shenzhen (China) 2023. Prednáška.

Mao, Y., Xiao, X., Ťapajna, M., Hušeková, K., Egyenes, F., Gucmann, F., and Yuan, C.: Thermal conductivities and interface thermal resistance of different phases (α, β, and κ) Ga_2O_3 thin films. In 24th National Semicond. Phys. Conf. SPC 2023. Shanghai 2023. Prednáška.

Ťapajna, M., Egyenes, F., Hrubišák, F., Hušeková, K., Dobročka, E., Nádaždy, P., Rosová, A., Chouhan, H., Keshtkar, J., and Gucmann, F.: Liquid-injection MOCVD-grown Ga_2O_3 on sapphire and 4H-SiC substrates: Material, transport, and MOSFET properties. In: Inter. Meeting for Future of Electron Dev. IMFEDK 2023. Kyoto 2023. Pozvaná prednáška.

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

dichalcogenides)

Zodpovedný riešiteľ:	Martin Hulman
Trvanie projektu:	1.7.2020 / 30.6.2023
Evidenčné číslo projektu:	19-0365
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 19975 €

Dosiahnuté výsledky:
Hrdá, J., Moško, M., Vojteková, T., Pribusová Slušná, L., Precner, M., Hulman, M., Španková, M., Chromik, Š., and Sojková, M.: Electron transport in lithium-doped few-layer MoS_2 films. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 83-86.

Sojková, M., Píš, I., Hrdá, J., Vojteková, T., Pribusová Slušná, L., Vegso, K., Šiffalovič, P., Nádaždy, P., Dobročka, E., Krbal, M., Fons, P.J., Munnik, F., Magnano, E., Hulman, M., and Bondino, F.: Lithium-induced reorientation of few-layer MoS_2 films, Chem. Mater. 35 (2023) 6246-6257.

Sojková, M., Hrdá, J., Vojteková, T., Pribusová Slušná, L., Végsö, K., Dobročka, E., Šiffalovič, P., and Hulman, M.: Novel approach in fabrication of few-layer transition metal dichalcogenide films. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 32-35.

Pribusová Slušná, L., Vegso, K., Dobročka, E., Vojteková, T., Nádaždy, P., Halahovets, Y., Sojková, M., Hrdá, J., Precner, M., Šiffalovič, P., Chen, Z., Huang, Y., Ražnjević, S., Zhang, Z., and Hulman, M.: Ordered growth of hexagonal and monoclinic phases of $MoTe_2$ on a sapphire substrate, CrystEngComm 25 (2023) 5706.

Vojteková, T., Pribusová Slušná, L., Dobročka, E., Precner, M., Sojková, M., Hrdá, J., Gregor, M., and Hulman, M.: Fourier-transform infrared spectroscopy of $MoTe_2$ thin films, Phys. Status Solidi B 260 (2023) 2300250.

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

Zodpovedný riešiteľ:	Štefan Chromik
Trvanie projektu:	1.7.2020 / 31.12.2023
Evidenčné číslo projektu:	19-0303
Organizácia je koordinátorom projektu:	nie
Koordinátor:	FMFI UK
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 20000 €

Dosiahnuté výsledky:

Španková, M., Chromik, Š., Dobročka, E., Pribusová Slušná, L., Talacko, M., Gregor, M., Pécz, B., Koos, A., Greco, G., Panasci, S.E., Fiorenza, P., Roccaforte, F., Cordier, Y., Frayssinet, E., and Giannazzo, F.: Large-area MoS_2 films grown on sapphire and GaN substrates by pulsed laser deposition, Nanomater. 13 (2023) 2837.

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

Zodpovedný riešiteľ:	Ján Kuzmík
Trvanie projektu:	1.7.2022 / 30.6.2025
Evidenčné číslo projektu:	APVV-21-0008
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 66125 €

Dosiahnuté výsledky:
Kuzmík, J., Pohorelec, O., Hasenöhrl, S., Blaho, M., Stoklas, R., Dobročka, E., Rosová, A., Kučera, M., Gucmann, F., Gregušová, D., Precner, M., and Vincze, A.: Mg doping of N-polar, in-rich InAlN, Materials, 16 (2023) 2250.

Stoklas, R., Hasenöhrl, S., Dobročka, E., Gucmann, F., Rosová, M. Blaho, M. Kučera, M., Ruterana, P., Chauvat, M.P., Kret, S., Kaleta, A., and Kuzmík, J.: Transport properties of thin InN layers grown on Mg-doped InAlN buffers. In: 14th Inter. Conf. Nitride Semicond. ICNS. Fukuoka 2023. Prednáška

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

Zodpovedný riešiteľ:	Michal Mruczkiewicz
Trvanie projektu:	1.7.2020 / 30.6.2023
Evidenčné číslo projektu:	19-0311
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 35312 €

Dosiahnuté výsledky:
Feilhauer, J., Tóbik, J., Šoltýs, J., and Cambel, V.: Numerical characterization of magnetic vortex probe imaging for magnetic force microscopy, IEEE Trans. Magnet. 59 (2023) 6500210.

Feilhauer, J., Zelent, M., Zhang, Z., Christensen, J., and Mruczkiewicz, M.: Unidirectional spin-wave edge modes in magnonic crystal, APL Mater. 11 (2023) 021104.

Makartsou, U., Moalic, M., Zelent, M., Mruczkiewicz, M., and Krawczyk, M.: Control of vortex chirality in a symmetric ferromagnetic ring using a ferromagnetic nanoelement, Nanoscale 15 (2023) 13094-1310127.

Zelent, M., Moalic, M., Mruczkiewicz, M., Li, X., and Krawczyk, M.: Stabilization and racetrack application of asymmetric Néel skyrmions in hybrid nanostructures, Sci Rep. 13 (2023) 13572.

Tóbik, J.: Dynamical symmetry breaking in magnetic systems, Phys. Status Solidi RRL 17 (2013) 2200459.

Ščepka, T., Feilhauer, J., Tóbik, J., Krylov, S., Kalmykova, T., Cambel, V., and Mruczkiewicz, M.: Control of closure domain state circulation in coupled triangular permalloy elements using MFM tip, J. Applied Phys. 134 (2023) 213902.

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

Zodpovedný riešiteľ:	Jozef Novák
Trvanie projektu:	1.7.2021 / 31.12.2024
Evidenčné číslo projektu:	20-0437
Organizácia je koordinátorom projektu:	nie
Koordinátor:	FEI STU Bratislava
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 29461 €

Dosiahnuté výsledky:
Novák, J., Eliáš, P., Hasenöhrl, S., Sojková, M., Laurenčíková, A., Kováč, J.jr., and Kováč, J.: Influence of thin Ga_2Se_3 interlayer on the properties of GaP/$PtSe_2$ heterojunction. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 24-27.

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

Zodpovedný riešiteľ:	Jozef Novák
Trvanie projektu:	1.8.2021 / 31.12.2024
Evidenčné číslo projektu:	20-0264
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Žilinská univerzita v Žiline
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 28455 €

Dosiahnuté výsledky:
Novák, J., Eliáš, P., Hasenöhrl, S., Sojková, M., Laurenčíková, A., Kováč, J.jr., and Kováč, J.: Influence of thin Ga_2Se_3 interlayer on the properties of GaP/$PtSe_2$ heterojunction. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 24-27.

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

Zodpovedný riešiteľ:	Enric Pardo
Trvanie projektu:	1.7.2020 / 30.6.2023
Evidenčné číslo projektu:	19-0536
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 36683 €

Dosiahnuté výsledky:
Li, S. and Pardo, E.: Numerical modelling of soldered superconducting REBCO stacks of tapes suggests strong reduction in cross-field demagnetization, Sci Rep. 13 (2023) 1087.

Pardo, E. and Grilli, F.: Electromagnetic modeling of superconductors. In Numerical modeling of superconducting applications: Simulation of electromagnetics, thermal stability, thermo-hydraulics and mechanical effects in large-scale superconducting devices. World Sci Publ. Co. Pte. Ltd., 2023, p. 1-104. ISBN 978-981-127-143-4.

Pardo, E. and Dadhich, A.: Electro-thermal modelling by novel variational methods: racetrack coil in short-circuit, IEEE Trans. Applied Supercond. 33 (2023) 5201606.

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

Zodpovedný riešiteľ:	Ján Šoltýs
Trvanie projektu:	1.7.2021 / 31.12.2024
Evidenčné číslo projektu:	20-0425
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prírodovedecká fakulta, UPJŠ Košice
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 15640 €

Dosiahnuté výsledky:
Pribulová, Z., Marcin, M., Kačmarčík, J., Gabáni, S., Flachbart, K., Shitsevalova, N., Mori, T., Sluchanko, N., Anisimov, M., Cambel, V., Šoltýs, J., Marcenat, C., Klein, T., and and Samuely, P.: Defect-induced weak collective pinning in superconducting YB6 crystals, JPhys Mater. 6 (2023) 045002.

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

Zodpovedný riešiteľ:	Milan Ťapajna
Trvanie projektu:	1.7.2022 / 30.6.2026
Evidenčné číslo projektu:	APVV-21-0231
Organizácia je koordinátorom projektu:	áno

Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 40250 €

Dosiahnuté výsledky:
Hrdá, J., Moško, M., Vojteková, T., Pribusová Slušná, L., Precner, M., Hulman, M., Španková, M., Chromik, Š., and Sojková, M.: Electron transport in lithium-doped few-layer MoS_2 films. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 83-86.

Sojková, M., Hrdá, J., Vojteková, T., Pribusová Slušná, L., Végsö, K., Dobročka, E., Šiffalovič, P., and Hulman, M.: Novel approach in fabrication of few-layer transition metal dichalcogenide films. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 32-35.

Ťapajna, M., Egyenes, F., Hrubišák, F., Hušeková, K., Dobročka, E., Nádaždy, P., Rosová, A., Chouhan, H., Keshtkar, J., and Gucmann, F.: Liquid-injection MOCVD-grown Ga_2O_3 on sapphire and 4H-SiC substrates: Material, transport, and MOSFET properties. In: Inter. Meeting for Future of Electron Dev. IMFEDK 2023. Kyoto 2023. Pozvaná prednáška.

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

Zodpovedný riešiteľ:	Gabriel Vanko
Trvanie projektu:	1.1.2022 / 31.12.2023
Evidenčné číslo projektu:	SK-TW-21-0006
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Taiwan: 1
Čerpané financie:	APVV: 3636 €

Dosiahnuté výsledky:
Izsák, T., Ščepka, T., Vanko, G., Fedor, J., Romanyuk, O., and Hudec, B.: Structuring of titanium nitride films by dry reactive ion etching. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 150-153.

Vanko, G., Dérer, J., Hsu, R.-Ch., Kromka, A., Izsák, T., Varga, M., and Tsai, H.-Y.: Electrical properties of thin piezoelectric AlN layers prepared by DC and RF sputtering. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 242-245.

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

Zodpovedný riešiteľ:	Bohumír Zaťko
Trvanie projektu:	1.7.2023 / 30.6.2027
Evidenčné číslo projektu:	APVV-22-0382

Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 11948 €

Dosiahnuté výsledky:
Zaťko, B., Šagátová, A., Kováčová, E., Novák, A., Sýkova, R., Kohout, Z., Polansky, Š.: Detection of fast neutrons using 4H-SiC radiation detectors, EPJ Web of Conferences 288 (2023) 03004.

Šagátová, A., Kurucová, N., Kotorová, S., Kováčová, E., Zaťko, B.: Influence of base material thickness on spectrometry of semiconductor detectors based on semi-insulating GaAs, EPJ Web of Conferences 288 (2023) 10013.

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

Zodpovedný riešiteľ:	Bohumír Zaťko
Trvanie projektu:	1.7.2019 / 30.6.2023
Evidenčné číslo projektu:	18-0273
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav jadrového a fyzikálneho inžinierstva FEI STU
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 7435 €

Dosiahnuté výsledky:
Gál, N., Hrubčín, L., Šagátová, A., Vanko, G., Kováčová, E., and Zaťko, B.: High-resolution alpha-particle detector based on Schottky barrier 4H-SiC detector operated at elevated temperatures up to 500 °C, Applied Surface Sci 635 (2023) 157708.

Šagátová, A., Novák, A., Kováčová, E., Riabukhin, O., Kotorová, S., and Zaťko, B.: Radiation-degraded SI GaAs detectors and their metallization, AIP Conf. Proc. 2778 (2023) 060009.

Kotorová, S., Šagátová, A., Vanko, G., Boháček, P., and Zaťko, B.: Effect of thermal annealing on 4H-SiC radiation detector, AIP Conf. Proc. 2778 (2023) 060004.

Zaťko, B., Hrubčín, L., Boháček, P., Gurov, Y.B., Rozov, S.V., Evseev, S.A., Bulavin, M.V., Zamiatin, N.I., Kopylov, Y.A., Sekáčová, M., and Kováčová, E.: Spectrometric performance of 4H-SiC detectors after neutron irradiation, AIP Conf. Proc. 2778 (2023) 060012.

Novák, A., Šagátová, A., and Zaťko, B.: Energy calibration of timepix detector with GaAs sensor, AIP Conf. Proc. 2778 (2023) 050004.

Sedlačková, K., Zaťko, B., and Nečas V.: Spectrometry of electron irradiated CdTe Schottky-barrier semiconductor detectors before polarization onset, AIP Conf. Proc. 2778 (2023) 060010.

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

Zodpovedný riešiteľ:	Bohumír Zaťko
Trvanie projektu:	1.7.2022 / 30.6.2025
Evidenčné číslo projektu:	SK-CZ-RD_21/0016
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Česko: 1
Čerpané financie:	APVV: 49558 €

Programy: Iné projekty

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

Zodpovedný riešiteľ:	Tibor Izsák
Trvanie projektu:	1.1.2023 / 31.12.2024
Evidenčné číslo projektu:	CAS-SAS-2022-9
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Česko: 1
Čerpané financie:	SAV: 1443 €

Dosiahnuté výsledky:

Kočí, M., Izsák, T., Wróbe, P., Godzierz, M., Szabó, O., Vanko, G., Sojková, M., Pusz, S., Potocký, Š., Husák, M., and Kromka, A.: Room temperature gas sensors based on the diamond-molybdenum disulfide and diamond-graphene oxide structure. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. - ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 91-94.

Kromka, A., Kočí, M., Szabó, O., Aubrechtová Dragounová, K., Vanko, G., Izsák, T., and Varga, M.: Chemical vapor deposition of diamond films on qcm substrates. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. - ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 157-160.

Kromka, A., Varga, M., Kočí, M., Szabó, O., Izsák, T., Aubrechtová Dragounová, K., Gál, M., Vojs, M., Korčeková, J., and Poturnayová, A.: Diamond-coated quartz crystal microbalance: fabrication, characterization and applications – detection of gas molecules and SARS-Cov-2 proteins. Book Abstracts 15th Inter.Conf. Nanomater. - Research & Application NANOCON 2023. Brno 2023. Vývеska.

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

Zodpovedný riešiteľ:	Tetiana Kalmykova
Trvanie projektu:	1.4.2022 / 31.3.2025
Evidenčné číslo projektu:	09I03-03-V01-00006
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 30721 €

Programy: Vedecko-technické projekty

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

Zodpovedný riešiteľ:	Štefan Chromik
Trvanie projektu:	1.1.2023 / 31.12.2024
Evidenčné číslo projektu:	SAV-PAV
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Poľsko: 1
Čerpané financie:	SAV: 1434 €

Programy: Štrukturálne fondy EÚ Výskum a inovácie

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

Zodpovedný riešiteľ:	Eva Majková
Zodpovedný riešiteľ v organizácii SAV:	Milan Ťapajna
Trvanie projektu:	1.7.2019 / 30.6.2023
Evidenčné číslo projektu:	313021T081
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum pre využitie pokročilých materiálov SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	6 - Slovensko: 6
Čerpané financie:	Výskumná agentúra: 7263 €

Programy: DoktoGranty

37.) Zlepšenie kryštalickej kvality β-Ga_2O_3 rasteného na SiC substrátoch pomocou LI-MOCVD metódy *(Improvement of crystal quality of β-Ga_2O_3 grown on SiC using LI-MOCVD method)*

Zodpovedný riešiteľ:	Fedor Hrubišák
Trvanie projektu:	1.1.2023 / 31.12.2023
Evidenčné číslo projektu:	APP0424
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 2000 €

Dosiahnuté výsledky:

Hrubišák, F., Hušeková, K., Zheng, X., Rosová, A., Dobročka, E., Ťapajna, M., Mičušík, M., Nádaždy, P., Egyenes, F., Keshtkar, J., Kováčová, E., Pomeroy, J.W., Kuball, M., and Gucmann, F.: Heteroepitaxial growth of Ga_2O_3 on 4H-SiC by liquid-injection MOCVD for improved thermal management of Ga_2O_3 power devices, J. Vacuum Sci Technol. A 41 (2023) 042708.

Hrubišák, F., Hušeková, K., Zheng, X., Rosová, A., Dobročka, E., Ťapajna, M., Mičušík, M., Nádaždy, P., Egyenes, F., Keshtar, J., Kováčová, E., Pomeroy, J.W., Kuball, M., and Gucmann, F.: Material properties of MOCVD-grown β- and κ-Ga_2O_3 thin films on 4H-SiC substrates. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 87-90.

38.) Vývoj medzivrstiev karbidu kremíka a nitridu hliníka pre pn heteroštruktúry oxidu gália a bórom dopovaných nanodiamantov *(Development of silicon carbide and aluminum nitride interlayers for pn heterostructure based on gallium oxide and boron-doped nanodiamonds)*

Zodpovedný riešiteľ:	Javad Keshtar
Trvanie projektu:	1.1.2023 / 31.12.2023
Evidenčné číslo projektu:	APP0373
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 1000 €

Programy: MoRePro

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

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

koordinátorom projektu:	
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 42448 €

Dosiahnuté výsledky:
Kočí, M., Izsák, T., Vanko, G., Sojková, M., Hrdá, J., Szabó, O., Husák, M., Végsö, K., Varga, M., and Kromka, A.: Improved gas sensing capabilities of MoS_2/diamond heterostructures at room temperature, ACS Applied Mater. Interfaces 15 (2023) 34206-34214.

Vanko, G., Dérer, J., Hsu, R.-Ch., Kromka, A., Izsák, T., Varga, M., and Tsai, H.-Y.: Electrical properties of thin piezoelectric AlN layers prepared by DC and RF sputtering. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 242-245.

Kromka, A., Kočí, M., Szabó, O., Aubrechtová Dragounová, K., Vanko, G., Izsák, T., and Varga, M.: Chemical vapor deposition of diamond films on qcm substrates. In Proc. 11th Inter. Conf. on Advances in Electron. Photon. Technol. – ADEPT. Eds. D. Jandura et al. Žilina: EDIS 2023. ISBN 978-80-554-1977-0. P. 157-160.

Ondič, L., Trojánek, F., Varga, M., and Fait, J.: Strain-relaxed nanocrystalline diamond thin films with silicon vacancy centers using femtosecond laser irradiation for photonic applications, ACS Applied Nano Mater. 6 (2023) 3268-3276.

Trojánek, F., Hamráček, K., Hanák, M., Varga, M., Kromka, A. Babčenko, O., Ondič, L., and Malý, P.: Light emission dynamics of silicon vacancy centers in a polycrystalline diamond thin film, Nanoscale 15 (2023) 2734–2738.

Varga, M., Sojková, M., Hrdá, J., Hutár, P., Parza Saeb, S., Vanko, G., Pribusová-Slušná, L., Ondic, L., Fait, J., Kromka, A., and Hulman, M.: Technological challenges in the fabrication of MoS_2/diamond heterostructures. In NANOCON 2022. Proc. 14th Inter. Conf. Nanomater. – Res. & Appl. Ostrava. Tanger Ltd. 2023, pp 21-27. ISBN: 978-80-88365-09-9.

Programy: Európsky fond regionálneho rozvoja (EFRR)

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

Zodpovedný riešiteľ:	Vladimír Cambel
Trvanie projektu:	1.3.2022 / 30.9.2023
Evidenčné číslo projektu:	ITMS2014+ 313011BVN5
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	Výskumná agentúra: 187393 €

Príloha A-3

Publikačná činnosť organizácie

Príloha je generovaná z ARL.

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

ABC01 PARDO, Enric - GRILLI, F. Electromagnetic modeling of superconductors. In Numerical modeling of superconducting applications : Simulation of electromagnetics, thermal stability, thermo-hydraulics and mechanical effects in large-scale superconducting devices. - Singapur : World Scientific Publishing Co. Pte. Ltd., 2023, p. 1-104. ISBN 978-981-127-143-4. Dostupné na: https://doi.org/10.1142/13282 (APVV 19-0536. VEGA 2/0097/18)

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

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ADEB02 ŠAGÁTOVÁ, A.** - KURUCOVÁ, N. - KOTOROVÁ, S. - KOVÁČOVÁ, Eva - ZAŤKO, Bohumír. Influence of base material thickness on spectrometry of semiconductor detectors based on semi-insulating GaAs. In EPJ Web of Conferences : ANIMMA 2023, 2023, vol. 288, no. 10013. ISSN 2100-014X. Dostupné na: https://doi.org/10.1051/epjconf/202328810013 (APVV 18-0273. VEGA 2/0084/20. APVV 22-0382)

ADEB03 ZAŤKO, Bohumír** - ŠAGÁTOVÁ, A. - KOVÁČOVÁ, Eva - NOVÁK, A. - SÝKORA, Rudolf - KOHOUT, Z. - POLANSKY, Š. Detection of fast neutrons using 4H-SiC radiation detectors. In EPJ Web of Conferences : ANIMMA 2023, 2023, vol. 288, no. 03004. ISSN 2100-014X. Dostupné na: https://doi.org/10.1051/epjconf/202328803004 (APVV 22-0382. APVV 18-0273. VEGA 2/0084/20)

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ADMB01 FOS, Alen** - ŠVEC, Peter - JANOTOVÁ, Irena - JANIČKOVIČ, Dušan - BUTVINOVÁ, Beata - BÚRAN, Marek - KYRITSI, Anna - KONSTANTINIDIS, Nikolaos - MARCIN, Jozef - ŠKORVÁNEK, Ivan - NOVÁK, Patrik. Microstructure and Magnetic Properties of Rapidly Quenched Fe-Sn-B Based Alloys. In AIP Conference Proceedings, 2023, vol. 2778, art. no. 040004. (2022: 0.164 - SJR). (2023 - WOS, SCOPUS). ISSN 0094-243X. Dostupné na: https://doi.org/10.1063/5.0136472 (APVV-19-0369 : Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania. VEGA 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov)

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ADMB09 ZAŤKO, Bohumír** - HRUBČÍN, Ladislav - BOHÁČEK, Pavol - GUROV, Y.B. - ROZOV, S.V. - EVSEEV, S.A. - BULAVIN, M.V. - ZAMIATIN, N.I. - KOPYLOV, Y.A. - SEKÁČOVÁ, Mária - KOVÁČOVÁ, Eva. Spectrometric performance of 4H-SiC detectors after neutron irradiation. In AIP Conference Proceedings : Applied Physics of Condensed Matter (APCOM 2022), 22–24 June 2022, Štrbské Pleso, Slovak Republic, 2023, vol. 2778, no. 060012. (2022: 0.164 - SJR). (2023 - WOS, SCOPUS). ISSN 0094-243X. Dostupné na: https://doi.org/10.1063/5.0135875 (APVV 18-0273. APVV 18-0243. VEGA 2/0084/20)

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2. [1.1] WANG, S.J. - YONG, H.D. - ZHOU, Y.H. Calculations of the AC losses in superconducting cables and coils: Neumann boundary conditions of the T-A formulation. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, JUN 1 2022, vol. 35, no. 6. Dostupné na: https://doi.org/10.1088/1361-6668/ac6a52., Registrované v: WOS

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4. [1.1] ZHAO, J. - GAO, S.Y. - WU, B.H. - YANG, X.S. - SHEN, B. - CHEN, W. - ZHAO, Y. Effect of winding methods: transport AC losses in CORC coils. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, NOV 1 2022, vol. 35, no. 11. Dostupné na: https://doi.org/10.1088/1361-6668/ac95d7., Registrované v: WOS

5. [1.2] Guo, Z., Qin, J., Lubkemann, R., Wang, K., Jin, H., Xiao, G., Li, J., Zhou, C., Nijhuis, A.: AC loss and contact resistance in highly flexible rebco cable for fusion applications In Superconductivity 2 (2022) 100013., Registrované v: SCOPUS

ADMB22 ŤAPAJNA, Milan - VÁLIK, Lukáš - GREGUŠOVÁ, Dagmar - FRÖHLICH, Karol - GUCMANN, Filip - HASHIZUME, T. - KUZMÍK, Ján. Treshold voltage

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ADMB23 TIMKO, Milan - DŽAROVÁ, Anežka - ZÁVIŠOVÁ, Vlasta - KONERACKÁ, Martina - ŠPRINCOVÁ, Adriana - KOPČANSKÝ, Peter - KOVÁČ, Jozef - VÁVRA, Ivo - SZLAFEREK, Andrzej. Magnetic properties of bacterial magnetosomes and chemosynthesized magnetite nanoparticles. In Magnetohydrodynamics, 2008, vol. 44, no. 2, p. 113-120. (2007: 0.351 - SJR, Q2 - SJR). (2008 - WOS, SCOPUS). ISSN 0024-998X. (ICMF11 : International Conference on Magnetic Fluids)

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ADNA Vedecké práce v domácich impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADNA01 CAMBEL, Vladimír - GREGUŠOVÁ, Dagmar - ELIÁŠ, Peter - FEDOR, Ján - KOSTIČ, Ivan - MAŇKA, Ján - BALLO, P. Switching magnetization magnetic force microscopy - an alternative to conventional lift-mode MFM. In Journal of Electrical Engineering, 2011, vol. 62, p. 37-43. (2010: 0.278 - IF, Q4 - JCR, 0.191 - SJR, Q3 - SJR). (2011 - INSPEC, SCOPUS). ISSN 1335-3632.

Citácie:

1. [1.1] MOLDOVAN, Antoniu - DINESCU, Maria. Single-pass magnetic force microscopy technique, with topography feedback based on scanning polarization force microscopy. In APPLIED SURFACE SCIENCE, 2022, vol. 597, no., pp. ISSN 0169-4332. Dostupné na: https://doi.org/10.1016/j.apsusc.2022.153747., Registrované v: WOS

ADNA02 HURAN, Jozef - VALOVIČ, Albín - KUČERA, Michal - KLEINOVÁ, Angela - KOVÁČOVÁ, Eva - BOHÁČEK, Pavol - SEKÁČOVÁ, Mária. Hydrogenated amorphous silicon carbon nitride films prepared by PECVD technology: properties. In Journal of Electrical Engineering, 2012, vol. 65, p. 333-335. (2011: 0.370 - IF, Q4 - JCR, 0.160 - SJR, Q3 - SJR). (2012 - INSPEC, SCOPUS). ISSN 1335-3632. Dostupné na: https://doi.org/10.2478/v10187-012-0049-z

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2. [1.1] SUKACH, A.V. - TETYORKIN, V.V. - TKACHUK, A.I. - KOZAK, A.O. - PORADA, O.K. - IVASHCHENKO, V.I. Charge transport in SiCN/Si heterostructures. In MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING. ISSN 1369-8001, JUN 1 2022, vol. 143. Dostupné na: https://doi.org/10.1016/j.mssp.2022.106515., Registrované v: WOS

ADNA03 PERNÝ, M. - ŠÁLY, V.** - JANÍČEK, František - MIKOLÁŠEK, M. - VÁRY, M. - HURAN, Jozef**. Electric measurements of PV heterojunction structures a-SiC/c-Si. In Journal of Electrical Engineering, 2018, vol. 69, iss. 1, p. 52-57. (2017: 0.508 - IF, Q4 - JCR, 0.205 - SJR, Q3 - SJR). (2018 - SCOPUS, WOS). ISSN 1335-3632. Dostupné na: https://doi.org/10.1515/jee-2018-0007

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ADNA04 PERNÝ, M. - ŠÁLY, V. - VÁRY, M. - MIKOLÁŠEK, M. - HURAN, Jozef - PACKA, J. AC impedance spectroscopy of Al/a-SiC/c-Si(p)/Al heterostructure under illumination. In Journal of Electrical Engineering, 2014, vol. 65, p. 174-178. (2013: 0.420 - IF, Q4 - JCR, 0.187 - SJR, Q3 - SJR). (2014 - INSPEC, WOS, SCOPUS). ISSN 1335-3632. Dostupné na: https://doi.org/10.2478/jee-2014-0027

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

AEC01 MUDROŇ, J. - MÜLLEROVÁ, J. - DUBECKÝ, František - HURAN, Jozef. Optical properties of InP:Fe irradiated by fast netrons. In ASDAM ';98 : Proceedings of the 2nd International Conference on Advanced Semiconductor Devices and Microsystems. Ed.: J. Breza. - Piscataway : IEEE, 1998, p. 235-238.

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AEC02 RUFER, L. - LALINSKÝ, Tibor - GROBELNY, D. - MIR, S. - VANKO, Gabriel - ÖSZI, Zsolt - MOZOLOVÁ, Želmíra. GaAs and GaN based SAW chemical sensors: acoustic part design and technology. In ASDAM 2006 : proceedings of the 6th International Conference on Advanced Semiconductor Devices and Microsystems. - Piscataway : IEEE, 2006, p. 165-168. ISBN 1-4244-0396-0.

Citácie:

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2. [1.1] MUKHERJEE, J. - CHAUBEY, R.K. - RAWAL, D.S. - DHAKA, R.S. Analysis of the post-stress recovery of reverse leakage current in GaN HEMTs. In MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING. ISSN 1369-8001, JAN 2022, vol. 137. Dostupné na: https://doi.org/10.1016/j.mssp.2021.106222., Registrované v: WOS

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AEE01 KUZMÍK, Ján - JAVORKA, P. - ALAM, A. - MARSO, M. - HEUKEN, M. - KORDOŠ, Peter. Investigation of self-heating effects in AlGaN/GaN HEMTs. In EDMO 2001 : International Symposium on Electron Devices for Microwave and Optoelectronic Applications. - Vienna : Technical University of Vienna, 2001, p. 21.

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AFC Publikované príspevky na zahraničných vedeckých konferenciách

AFC01 LEITH, S. - VOGEL, M. - JIANG, X.S. - SEILER, Eugen - RIES, Rastislav - PIRA, C. - ANTOINE, C.Z. - KATASEVS, A. - KAUPUZS, J. - MEDVIDS, A. - ONUFRIJEVS, P. - KUGELER, O. - MALYSHEV, O.B. - VALIZADEH, R. - SUBLET, A. Deposition parameter effects on niobium nitride (NbN) thin films deposited onto copper substrates with DC magnetron sputtering. In 19th International Conference on RF Superconductivity SRF 2019. - Dresden : JACoW Publ, 2019, p. 947-951. ISBN 978-3-95450-211-0.

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AFC02 LOBOTKA, Peter - RADNÓCZI, G. - CZIGÁNY, Zs. - VÁVRA, Ivo - DRŽÍK, Milan - MIČUŠÍK, Matej - DOBROČKA, Edmund - KUNZO, Pavol. Preparation of nickel, nickel-iron, and silver-copper nanoparticles in ionic liquids. In Proceedings of the 17th International Confefence on Solid-State Sensors, Actuators and Microsystems : Transducers 2013 & Eurosensors XXVII. - IEEE, 2013, p. 2021-

2024. ISBN 978-1-4673-5981-8. Dostupné na: https://doi.org/10.1109/Transducers.2013.6627194

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1. [1.2] Mahdi, AIA, Maraie, NK, Dawood, AH, Efficacy of Gold and Nickel on the Anticancer Activity and Physical Properties of Pemetrexed Loaded on Fullerene C60 Buckysomes. International Journal of Drug Delivery Technology. 2022;12(3):1233-1244., Registrované v: SCOPUS

AFC03 MITRÓOVÁ, Zuzana - TOMAŠOVIČOVÁ, Natália - LANCZ, Gábor - KOVÁČ, Jozef - VÁVRA, Ivo - KOPČANSKÝ, Peter. Preparation and characterization of carbon nanotubes functionalized by magnetite nanoparticles. In NANOCON 2010: 2nd international conference, October 12th - 14th 2010, Olomouc, Czech Republic : conference proceedings. - Ostrava : TANGER Ltd., 2010, p. 388-392. ISBN 978-80-87294-19-2. (NANOCON 2010 : International Conference)

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1. [1.1] STEGARESCU, A. - CABRERA, H. - BUDASHEVA, H. - SORAN, M.L. - LUNG, I. - LIMOSANI, F. - KORTE, D. - AMATI, M. - BORODI, G. - KACSO, I. - OPRIS, O. - DAN, M. - BELLUCCI, S. Synthesis and Characterization of MWCNT-COOH/Fe3O4 and CNT-COOH/Fe3O4/NiO Nanocomposites: Assessment of Adsorption and Photocatalytic Performance. In NANOMATERIALS. SEP 2022, vol. 12, no. 17. Dostupné na: https://doi.org/10.3390/nano12173008., Registrované v: WOS

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AFC04 ZAŤKO, Bohumír - DUBECKÝ, František - ŠAGÁTOVÁ-PERĎOCHOVÁ, A. - SEDLÁČKOVÁ, K. - BOHÁČEK, Pavol - SEKÁČOVÁ, Mária - NEČAS, V. Detector of fast neutrons based on silicon carbide epitaxial layers. In ASDAM 2012 : conference proceedings. Eds. Š. Haščík, J. Osvald. - Piscataway : IEEE, 2012, p. 151-154. ISBN 978-1-4673-1195-3. Dostupné na: https://doi.org/10.1109/ASDAM.2012.6418580

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1. [1.2] LIU, Linyue - OUYANG, Xiaoping - ZHANG, Xianpeng - RUAN, Jinlu. Investigation of Linear Current in SiC Radiation Detector. In Yuanzineng Kexue Jishu/Atomic Energy Science and Technology, 2022-10-01, 56, 10, pp. 1987-1995. ISSN 10006931. Dostupné na: https://doi.org/10.7538/yzk.2022.youxian.0265., Registrované v: SCOPUS

AFD Publikované príspevky na domácich vedeckých konferenciách

AFD01 MARSO, M. - BERNÁT, J. - JAVORKA, P. - FOX, A. - WOLTER, M. - KORDOŠ, Peter. MSM varactor diodes based on AlGaN/GaN/SiC HEMT layer structures. In ASDAM 2004 : conference proceeding of the Fifth International Conference on Advanced Semiconductor Devices and Microsystems. Smolenice Castle, Slovakia October 17-21, 2004. Edited by J. Osvald, Š. Haščík. - Piscataway : IEEE, 2004, p. 151-154. ISBN 0-7803-8535-7.

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1. [1.1] CAI, Q. - YOU, H.F. - GUO, H. - WANG, J. - LIU, B. - XIE, Z.L. - CHEN, D.J. - LU, H. - ZHENG, Y.D. - ZHANG, R. Progress on AlGaN-based solar-blind ultraviolet photodetectors and focal plane arrays. In LIGHT-SCIENCE & APPLICATIONS. ISSN 2047-7538, APR 30 2021, vol. 10, no. 1. Dostupné na:

https://doi.org/10.1038/s41377-021-00527-4., Registrované v: WOS

AFD02 ZEHETNER, J. - KASEMANN, S. - VANKO, Gabriel - BABCHENKO, Oleg. Black titanium dioxide in situ generated on femtosecond laser induced periodic surface structures. In ASDAM 2018 : The Twelfth International Conference on Advanced Semiconductor Devices and Microsystems. Editors: J. Breza, D. Donoval, E. Vavrinsky. - IEEE, 2018, p. 203-205. ISBN 978-1-5386-7488-8. Dostupné na: https://doi.org/10.1109/ASDAM.2018.8544516

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1. [1.2] QIAO, Ming - YAN, Jianfeng - YU, Jiachen - LI, Jiaqun - QU, Liangti. Research Progress in Ultrafast Laser Processing of Titanium Dioxide Micro/nano Structures and Functional Devices. In Zhongguo Jiguang/Chinese Journal of Lasers, 2022-11-25, 49, 22, pp. ISSN 02587025. Dostupné na: https://doi.org/10.3788/CJL202249.2200002., Registrované v: SCOPUS

AFK Postery zo zahraničných konferencií

AFK01 PARDO, Enric - KAPOLKA, Milan - ŠOUC, Ján. 3D and 2D electromagnetic modelling of superconductors: flux cutting effects in finite samples and coated conductor coils up to 10000 turns. In ??? - 12th European Conference on Applied Superconductivity. (12th European Conference on Applied Superconductivity : EUCAS 2015)

Citácie:

1. [1.1] LI, S. Critical current and loss character of quasi-isotropic strands with resistance. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, JUN 1 2022, vol. 35, no. 6. Dostupné na: https://doi.org/10.1088/1361-6668/ac6212., Registrované v: WOS

AGI Správy o vyriešených vedeckovýskumných úlohách

AGI01 FEVRIER, A. - HLÁSNIK, Ivan - KOKAVEC, Ján - POUILLANGE, J.P. Internal Report Saclay, SEDAP/73-124. Saclay, 1973

Citácie:

1. [1.1] SUCCI, G. - BOTTURA, L. - BRESCHI, M. - BORDINI, B. - BAFFARI, D. On the effect of strand damage on the operating margin of a Nb3Sn Rutherford cable. In CRYOGENICS. ISSN 0011-2275, JUL 2022, vol. 125. Dostupné na: https://doi.org/10.1016/j.cryogenics.2022.103458., Registrované v: WOS

DAI Dizertačné a habilitačné práce

DAI01 KÁLNA, Karol. Theoretical Study of Carrier Capture into Semicondacture Quantum Wells. Bratislava : SAV, 1997

Citácie:

1. [1.1] DAVYDOV, V.N. - ZADOROZHNY, O.F. Energy Possibilities of Led Heterostructures with Combined Profile Quantum Wells. In RUSSIAN PHYSICS JOURNAL. ISSN 1064-8887, SEP 2022, vol. 65, no. 5, p. 893-903. Dostupné na: https://doi.org/10.1007/s11182-022-02711-4., Registrované v: WOS

GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup

GHG01 PARDO, Enric - GRILLI, F. - REIS, T. AC loss modeling of the stator of a 1 MW REBCO superconducting motor for aviation. In 7th International Workshop on Numerical Modelling of High Temperature Superconductors : 22nd to 23rd, 2021,

Virtual (Nancy, France). Dostupné na internete: https://hal.archives-ouvertes.fr/hal-03295724

Citácie:

1. [1.1] WROBEL, R. A technology overview of thermal management of integrated motor drives-Electrical Machines. In THERMAL SCIENCE AND ENGINEERING PROGRESS. ISSN 2451-9049, MAR 1 2022, vol. 29. Dostupné na: https://doi.org/10.1016/j.tsep.2022.101222., Registrované v: WOS

Príloha A-4

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

doc. RNDr. Edmund Dobročka, CSc.
Názov semestr. predmetu: Fyzika tuhých látok
Počet hodín za semester: 16
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚJFI

doc. Ing. Fedor Gömöry, DrSc.
Názov semestr. predmetu: Elektromagnetické prvky a systémy
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

Ing. Ján Šoltýs, PhD
Názov semestr. predmetu: Nanotechnológie
Počet hodín za semester: 2
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚJFI

Ing. Jaroslav Tóbik, PhD.
Názov semestr. predmetu: Fyzika 2
Počet hodín za semester: 24
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚJFI

Semestrálne cvičenia:

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

RNDr. Dagmar Gregušová, DrSc.
Názov semestr. predmetu: Praktikum FTL
Počet hodín za semester: 14
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra experimentálnej fyziky

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

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

Ing. Marek Mošať, PhD.
Názov semestr. predmetu: Supravodivosť

Počet hodín za semester: 2
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚJFI

Ing. Ondrej Pohorelec, PhD.
Názov semestr. predmetu: Praktikum FTL
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra experimentálnej fyziky

Mgr. Mykola Soloviov, PhD.
Názov semestr. predmetu: Elektromagnetické prvky a systémy
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

Ing. Ján Šoltýs, PhD
Názov semestr. predmetu: Nanotechnológie
Počet hodín za semester: 2
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚJFI

Individuálne prednášky:

Ing. Gabriel Vanko, PhD.
Názov semestr. predmetu: MEMS – inteligentné senzory a aktuátory
Počet hodín za semester: 2
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav automobilovej mechatroniky

Príloha A-5

Medzinárodná mobilita organizácie

(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:

Krajina	**D r u h d o h o d y**					
	MAD, KD, VTS		**Medziústavná**		**Ostatné**	
	Meno pracovníka	**Počet dní**	**Meno pracovníka**	**Počet dní**	**Meno pracovníka**	**Počet dní**
Belgicko					Anang Dadhich	45
					Ján Kuzmík	6
Česko					Ján Fedor	1
					Lubomír Frolek	1
					Filip Gucmann	7
					Peter Hutár	1
					Peter Hutár	2
					Tibor Izsák	4
					Tibor Izsák	5
					Javad Keshtar	7
					Lenka Pribusová Slušná	2
					Lenka Pribusová Slušná	1
					Ján Šoltýs	1
					Ján Šoltýs	1
					Gabriel Vanko	5
					Gabriel Vanko	4
					Gabriel Vanko	1
					Marian Varga	7
					Marian Varga	10
					Marian Varga	10
					Bohumír Zaťko	3
					Bohumír Zaťko	3
Čína					Filip Gucmann	14
					Fedor Hrubišák	14

Dánsko					Fedor Gömöry	4
					Tomáš Kujovič	4
					Mykola Soloviov	4
Francúzsko					Ghazaleh Esmaeili Dehaghi	6
					Zdenko Zápražný	6
Grécko					Michal Blaho	4
					Michal Blaho	4
					Ján Kuzmík	4
					Ján Kuzmík	9
Holandsko					Anang Dadhich	2
					Michal Mruczkiewicz	6
					Enric Pardo	2
					Enric Pardo	2
					Eugen Seiler	9
					Arpit Kumar Srivastava	2
Japonsko					Ján Kuzmík	12
Nemecko					Michal Blaho	2
					Dagmar Gregušová	3
					Dagmar Gregušová	2
					Arif Hussain	90
					Ján Kováč	3
					Ján Kuzmík	3
					Ján Kuzmík	2
					Marek Mošať	3
					Ondrej Pohorelec	2
					Tomáš Ščepka	5
Nórsko					Peter Hutár	17
Poľsko					Štefan Chromik	5
					Michal Mruczkiewicz	3
					Marianna	5

					Špánková	
Španielsko					Fedor Hrubišák	7
					Hemendra Chouhan	7
Taiwan					Vladimír Cambel	6
					Jana Hrdá	13
					Martin Hulman	13
					Michaela Sojková	13
					Milan Ťapajna	6
					Milan Ťapajna	6
Taliansko					Michal Blaho	6
					Michal Blaho	4
					Fedor Gömöry	3
					Dagmar Gregušová	4
					Martin Hulman	10
					Štefan Chromik	5
					Peter Kotrusz	10
					Ján Kuzmík	4
					Eugen Seiler	5
					Viera Skákalová	10
					Marianna Špánková	5
Turecko					Anang Dadhich	11
USA					Ján Fedor	31
					Marián Precner	31
Veľká Británia					Enric Pardo	2
					Viera Skákalová	3
Počet vyslaní spolu					**78**	**595**

(B) Prijatie vedeckých pracovníkov zo zahraničia na základe dohôd:

Krajina	Druh dohody					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Bolívia					Sajes L.	60
Česko					Kromka A.	9
					Potocký Š.	2
Čína					Yuan C.	14
Dánsko					Brock M.	35
Francúzsko					Lyoussi A.	1
					Romain A.	60
Japonsko					Méhes G.	3
Nemecko					Elschner S.	2
					Fabian J.	2
					Kudymov A.	2
					Räch C.	2
Poľsko					Gierlowski P.	8
					Zajcewa I.	8
Španielsko					Puig T.	2
Taiwan					Lin J.-Y.	3
USA					Novosad V.	2
Počet prijatí spolu					**17**	**215**

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Česko	Flatlands 2023	Dagmar Gregušová	5
		Ondrej Pohorelec	5
		Michaela Sojková	5
	NANOCON 2023	Marian Varga	4
		Bohumír Zaťko	4
	SPM	Ján Šoltýs	2
Francúzsko	MT-28	Anang Dadhich	6
		Fedor Gömöry	7
		Arpit Kumar Srivastava	6
	WESD 2023	Viera Skákalová	4
Japonsko	ICNS-14	Michal Blaho	10
		Dagmar Gregušová	10
		Ján Kuzmík	10
		Roman Stoklas	10
	IMFEDK 2023	Milan Ťapajna	7
Nemecko	SALVE 2D23	Viera Skákalová	4
	SQHE	Viera Skákalová	2
	SSESAPA	Fedor Gömöry	3
Nórsko	iWORID 2023	Bohumír Zaťko	5
Poľsko	E-MRS 2023	Fridrich Egyenes	5
		Filip Gucmann	5
		Hemendra Chouhan	5
	NANOMAT 2023	Viera Skákalová	5

Portugalsko	OPAL' 2023	Jozef Novák	5
Rakúsko	ESS 2023	Gabriel Vanko	4
	IWEPNM 2023	Martin Hulman	7
		Lenka Pribusová Slušná	7
		Tatiana Vojteková	7
Španielsko	AFM	Ján Šoltýs	3
Švajčiarsko	HiTAT	Fedor Gömöry	4
Taliansko	ANIMMA 2023	Bohumír Zaťko	6
	EUCAS 2023	Marek Búran	5
		Anang Dadhich	5
		Fedor Gömöry	5
		Arif Hussain	5
		Ján Kováč	5
		Pavol Kováč	5
		Martin Kucharovič	5
		Tomáš Kujovič	5
		Marek Mošať	5
		Rastislav Ries	5
		Mykola Soloviov	5
		Arpit Kumar Srivastava	5
	MEMRISYS 2023	Boris Hudec	5
	WOCSDICE - EXMATEC 2023	Jozef Novák	5
USA	MRS SP 2023	Martin Hulman	6
Spolu	**23**	**46**	**248**

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

Skratky použité v tabuľke C:

AFM - 9th Multifrequency AFM Conference
ANIMMA 2023 - 8th International Conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications
E-MRS 2023 - European Materials Research Society Fall Meeting 2023
ESS 2023 - 6th Erwin Schrödinger Symposium 2023
EUCAS 2023 - 16th European Conference on Applied Superconductivity
Flatlands 2023 - Flatlands beyond Graphene 2023
HiTAT - 1st High Temperature Superconductor Accelerator Technology workshop
ICNS-14 - 14th International Conference on Nitride Semiconductors 2023
IMFEDK 2023 - International Meeting for Future of Electron Devices 2023
IWEPNM 2023 - International Winterschool on Electronic Properties of Novel Materials
iWORID 2023 - International Workshops on Radiation Imaging Detectors
MEMRISYS 2023 - 6th International Conference on Memristive Materials, Devices & Systems
MRS SP 2023 - MRS Spring Meeting & Exhibit
MT-28 - International Conference on Magnet Technology
NANOCON 2023 - 16. ročník mezinárodní konference nanomateriálů - výzkum & aplikace
NANOMAT 2023 - International Conference on Functional Nanomaterials and Nanodevices
OPAL' 2023 - 6th International Conference on Optics, Photonics and Lasers
SALVE 2D23 - SALVE 2D23 Symposium
SPM - SPM workshop 2023
SQHE - Sympozium Quantum Hall Effects and Related Topics
SSESAPA - Superconductivity for Sustainable Energy Systems and Particle Accelerators
WESD 2023 - 6th Workshop on Electron and Spin Dynamics
WOCSDICE - EXMATEC 2023 - 46th Workshop on Compound Semiconductor Devices and Integrated Circuits held in Europe 17th Expert Evaluation and Control of Compound Semiconductor Materials and Technologies

Príloha A-6

Vedecko-popularizačná činnosť pracovníkov organizácie

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Mgr. Fridrich Egyenes, PhD.		TL	Elektróny v polovodičoch	Quark	23.11.2023
doc. Ing. Fedor Gömöry, DrSc.		TV	Experiment (Supravodivosť a supertekutosť)	RTVS	23.10.2023
doc. Ing. Fedor Gömöry, DrSc.		TL	Vedci sa pri supravodičoch pomýlili už druhýkrát	Denník N	31.8.2023
Ing. Filip Gucmann, PhD.		iné	Dni príležitostí	Žilina	22.3.2023
Ing. Filip Gucmann, PhD.	F. Egyenes	iné	Dni príležitostí	Bratislava	7.11.2023
Ing. Filip Gucmann, PhD.	M. Bennár, M. Blaho, F. Egyenes, L. Frolek, J. Hrdá, F. Hrubišák, T. Kujovič, M. Mošať, M. Pécz, O. Pohorelec, M. Precner, M. Sojková, M. Ťapajna, G. Vanko, R. Ries, P. Šichman, J. Tóbik, B. Zaťko	iné	Víkend so SAV	Bratislava	23.6.2023
Ing. Filip Gucmann, PhD.	M. Bennár, M. Blaho, L. Frolek, J. Hrdá, F. Hrubišák, P. Hutár, T. Kujovič, M. Mošať, M. Pécz, O. Pohorelec, M. Talacko, G. Vanko, J. Keshtar	iné	Európska Noc výskumníkov	Bratislava	13.11.2023
Ing. Fedor Hrubišák		PB	Prezentácia technológie prípravy polovodičových súčiastok pre študentov	ÚJFI FEI STU SAV	13.12.2023
Ing. Marek Mošať, PhD.		iné	Dni príležitostí	Košice	21.4.2023
Ing. Ondrej Pohorelec, PhD.	J. Hrdá	iné	Dni príležitostí	Bratislava	4.4.2023
Ing. Ondrej Pohorelec, PhD.	M. Mošať	iné	Deň otvorených dverí na FEI STU	Bratislava	27.1.2023

Ing. Rastislav Ries, PhD.		TL	(Ne)dosiahnuteľná supravodivosť	Quark	1.12.2023
RNDr. Marianna Španková, PhD	Blaho M., Búran M., Bennár M., Dobročka E., Eliáš P., Frolek L., Gömöry F., Gregušová D., Hutár P., Kováč J., Kováčová E., Melíšek T., Mošať M., Pecz M., Pohorelec O., Pribusová L., Precner M., Ries R., Rosová A., Seiler E., Ščepka T., Šoltýs J., Ťapajna, M., Vojteková T.	EX	Deň otvorených dverí	ElÚ SAV	9.11.2023
Ing. Milan Ťapajna, PhD.		IN	Zdravotné riziká 5G sietí sú jasný hoax	SME-Vedecký podcast SAV	7.4.2023

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

Príloha A-7

Vyznamenania, ceny a iné ocenenia udelené organizácii a jej pracovníkom v roku 2023

Domáce ocenenia

Ocenenia SAV

Egyenes Fridrich
Súťaž doktorandov a mladých vedeckých pracovníkov do 35 rokov
Oceňovateľ: SAV
Opis: 1. miesto (1. odd.)

Hrdá Jana
Súťaž doktorandov a mladých vedeckých pracovníkov do 35 rokov
Oceňovateľ: SAV
Opis: 3. miesto (1. odd.)

Hulman Martin
Špičková publikácia SAV, časopisy s vysokým IF
Oceňovateľ: SAV

Kotrusz Peter
Špičková publikácia SAV, časopisy s vysokým IF
Oceňovateľ: SAV

Ries Rastislav
Súťaž doktorandov a mladých vedeckých pracovníkov do 35 rokov
Oceňovateľ: SAV
Opis: 3. miesto

Skákalová Viera
Špičková publikácia SAV, časopisy s vysokým IF
Oceňovateľ: SAV

Vetrova Iuliia
Súťaž doktorandov a mladých vedeckých pracovníkov do 35 rokov
Oceňovateľ: SAV
Opis: Čestné uznanie

Iné domáce ocenenia

Gömöry Fedor
Štátna cena Jozefa Miloslava Hurbana
Oceňovateľ: NR SR

Medzinárodné ocenenia

Uvádzajte v štruktúre: názov ocenenia, udeľujúca inštitúcia, meno a priezvisko ocenenej osoby.

ČASŤ B

[Elektrotechnický ústav SAV, v. v. i.]

Výročná správa o hospodárení organizácie

za rok 2023

19. Rámcové informácie o hospodárení organizácie

Informácia o zmenách zakladacej listiny, vnútorných predpisov verejnej výskumnej inštitúcie alebo vnútorných predpisov zakladateľa podľa § 38 ods. 1,

Zmeny zakladacej listiny

Elektrotechnicky ústav Slovenskej akadémie vied vznikol v roku 1956 z elektrotechnického oddelenia laboratória pre výskum a konštrukciu meracích a fyzikálnych prístrojov. Uznesením Predsedníctva Slovenskej akadémie vied č. 510 zo dňa 25.2.1980 bol Elektrotechnický ústav Slovenskej akadémie vied s účinnosťou od 1.1.1981 združený do Centra elektro-fyzikálneho výskumu Slovenskej akadémie vied, z ktorého sa s účinnosťou od 1.1.1990 na základe uznesenia Predsedníctva Slovenskej akadémie vied č. 287 zo dňa 14.12.1989 osamostatnil. Uznesením Predsedníctva Slovenskej akadémie vied č. 172 zo dňa 17.12.1992 s účinnosťou od 1.1.1993 bola schválená zmena formy financovania Elektrotechnického ústavu Slovenskej akadémie vied z rozpočtovej na príspevkovú.

Na základe § 21a ods. 1 zákona o akadémii a zakladacej listiny verejnej výskumnej inštitúcie vydanej Slovenskou akadémiou vied podľa § 21a ods. 2 písm. a) zákona o akadémii sa Elektrotechnicky ústav Slovenskej akadémie vied dňom 1.7.2018 stal verejnou výskumnou inštitúciou. Dňa 10.9.2018 Ministerstvo školstva, vedy, výskumu a športu Slovenskej republiky vydalo rozhodnutie číslo 2018/11372:4-01CC, ktorým zastavilo konanie o zápis organizácií Slovenskej akadémie vied do registra verejných výskumných inštitúcií. Dňa 26.9.2018 nadobudol účinnosť zákon č. 270/2018 Z. z., ktorým sa menil a dopĺňal o. i. aj zákon o akadémii; podľa § 21b ods. 1 a 2 zákona o akadémii v znení zákona č. 270/2018 Z. z. sa organizácie Slovenskej akadémie vied odo dňa 26. 9.2018 opätovne stali rozpočtovými alebo príspevkovými organizáciami.

Dňa 5.10.2021 nadobudol účinnosť zákon č. 347/2021 Z. z., ktorým sa menil a dopĺňal zákon o akadémii a geologický zákon; podľa § 21aa ods. 1 zákona o akadémii v znení zákona č. 347/2021 Z. z. organizácie Slovenskej akadémie vied menia 1.1.2022 právnu formu na verejné výskumné inštitúcie. Na základe § 21aa ods. 1 zákona o akadémii a na základe zakladacej listiny číslo: 00384/2022 sa právna forma Elektrotechnického ústavu Slovenskej akadémie vied zmenila zo štátnej príspevkovej organizácie na verejnú výskumnú inštitúciu (ďalej len v.v.i.).

Zmeny vnútorných predpisov:

V. v. i. vydala vnútorné predpisy pri vzniku, účinné od 1.1.2022. V priebehu roka 2023 sa nemenili.
Všetky tieto dokumenty je možné nájsť na webovej stránke ústavu:
http://www.elu.sav.sk/o-nas/zakladne-dokumenty/dokumenty-ustavu/

Informácia o zložení orgánov, o zmenách v ich zložení a o ich činnosti
Zloženie jednotlivých orgánov a ich obsadenie je uvedené na webovej stránke ústavu http://www.elu.sav.sk/o-nas/organizacna-struktura/. Taktiež informácie o členoch orgánov uvádzame aj v Poznámkach k účtovnej závierke.

Činnosť SR a VR ElÚ SAV v.v.i. je zdokumentovaná v jednotlivých zápisniciach z ich zasadnutí.
Činnosť Správnej rady ElÚ SAV, v.v.i.
Správna rada ElÚ SAV, v.v.i. v roku 2023 zasadala 6 krát.
Činnosť Vedeckej rady ElÚ SAV, v.v.i.
Vedecká rada ElÚ SAV, v.v.i v roku 2023 zasadala 6 krát.

Opis činnosti, na účel ktorej bola inštitúcia zriadená:
Prevažujúcou hlavnou činnosťou inštitúcie je uskutočňovanie výskumu v odboroch vedy a techniky (ďalej tiež ‚odbory'): Fyzika kondenzovaných látok a akustika (010304), Teoretická elektrotechnika (020201), Elektrické stroje a prístroje (020204), Elektrotechnológie a materiály (020205), Elektroenergetika (020210), Mikroelektronika (020211), Optoelektronika (020212), Senzorika (020216), Fyzikálne inžinierstvo (020404), Nanomateriály (021 1 0 I) a Nanoelektronika (02 1 1 03).

Ďalšími hlavnými činnosťami inštitúcie sú:
a) zabezpečovanie a správa infraštruktúry výskumu a vývoja,
b) získavanie, spracúvanie a šírenie informácii z oblasti vedy a techniky a poznatkov z vlastného výskumu a vývoja organizácie,
c) podieľanie sa v spolupráci s vysokou školou na uskutočňovaní študijných programov tretieho stupňa vysokoškolského štúdia,
d) spolupráca v oblasti vedy a techniky s vysokými školami, ostatnými právnickými osobami uskutočňujúcimi výskum a vývoj.

19.1. Výdavky organizácie

Tabuľka 19a Výdavky organizácie (skutočnosť k 31. 12. 2023 v €)

Typ organizácie *(RO,PO)*		**Zdroje, z ktorých sa kryli jednotlivé výdavky**			
Výdavky	**Spolu**	**kapitola SAV (111)**	**iné štátne a verejné zdroje**	**ostatné zdroje**	**% krytia z kapitoly SAV**
1. Bežné výdavky	4 651 818,87	2 909 425,19	1 210 500,15	531 893,53	62,54
z toho: mzdy (610)	2 309 276,01	1 784 522,50	354 726,18	170 027,33	77,28
vedecká výchova štipendiá (640)	141 034,70	127 922,40	179,00	12 933,30	90,70
poistné a príspevok do poisťovní (620)	807 174,10	628 152,00	119 172,73	59 849,37	77,82
tovary a služby (630)	927 100,06	362 996,29	349 952,09	214 151,68	39,15
transfery partnerom projektov (640)	466 402,00	5 000,00	386 470,15	74 931,85	1,07
2. Kapitálové výdavky	119 876,25	88 156,49		31 719,76	73,54
z toho: obstarávanie kapitálových aktív	119 876,25	88 156,49		31 719,76	73,54
kapitálové transfery					

19.2. Zdroje financovania organizácie

Tabuľka 19b Zdroje financovania organizácie (skutočnosť k 31. 12. 2023 v €)

Typ organizácie *(RO,PO)*		**Z toho kategórie**			
Zdroje	**Spolu**	**Kapitálové zdroje**	**zdroje na mzdy (610)**	**zdroje na odvody do poisťovní (620)**	**zdroje na transfery partnerom projektov**
1. kapitola SAV (111)	3 009 292,68	99 867,49			
z toho: VEGA	160 936,49	14 537,49			
MVTS výskumné projekty	115 393,56	44 330,00			
MVTS podpora	5 876,26				
SASPRO/MOREPRO	12 000,00				
Vydávanie časopisov					
Mobility	3 814,64				
Vedecká výchova (štipendiá)	132 762,40				
OTAS (630)	2 578 509,33	41 000,00	1 784 522,50	628 152,00	
2. ŠF EÚ vr. fin. zo ŠR	533 389,75		69 892,01	24 601,90	269 103,13
3. medzinárodné grantové projekty	878 548,08	8 009,08	167 935,45	59 113,03	
z toho H2020	781 692,76	8 009,08	143 709,80	50 585,61	
4. iné štátne a verejné zdroje (spolu)	892 511,62		284 834,17	94 570,83	109 854,00
z toho: APVV	604 654,45		180 891,80	60 369,98	109 854,00
podpora z kapitoly MŠVVaŠ SR (stimuly)	102 822,00		54 954,72	16 957,83	
5. ostatné zdroje	597 024,85	23 710,68	2 091,88	736,34	
z toho: príjmy z prenájmu					
príjmy z podnikateľskej činnosti	48 062,30		2 091,88	736,34	
príjmy z expertnej činnosti a služieb	230 707,65	23 710,68			

20. Ročná účtovná závierka

e) ročná účtovná závierka s uvedením informácie, či bola alebo nebola schválená dozornou radou,

Ročná účtovná závierka je uložená v Registri účtovných závierok.
Dozorná rada dňa 21.6.2024 v Bratislave schválila jednomyseľne ročnú účtovnú závierku za rok 2023 a nemá pripomienky k Výročnej správe.(Zápisnica DR ElÚ SAV č.3 z 21.6.2024)

21. Výrok štatutárneho audítora k ročnej účtovnej závierke

Štatutárny audit vykonal: Ing. Monika Király, 9. mája 44/7, 960 01 Zvolen, LICENCIA UDVA č.735

„ **Názor**
Uskutočnila som audit účtovnej závierky verejnej výskumnej inštitúcie Elektrotechnický ústav SAV, v. v. i., Dúbravská cesta 9,841 04 Bratislava, IČO: 00598429 , ktorá obsahuje súvahu k 31. decembru 2023, výkaz ziskov a strát za rok končiaci sa k uvedenému dátumu a poznámky, ktoré obsahujú súhrn významných účtovných zásad a účtovných metód.

Podľa môjho názoru, priložená účtovná závierka poskytuje pravdivý a verný obraz finančnej situácie Elektrotechnického ústavu SAV, v. v. i. k 31. decembru 2023 a výsledku jeho hospodárenia za rok končiaci sa k uvedenému dátumu podľa zákona č.431/2002 Z. z. o účtovníctve v znení neskorších predpisov (ďalej len „zákon o účtovníctve“).

Základ pre názor
Audit som vykonala podľa medzinárodných audítorských štandardov (International Standards on Auditing, ISA). Moja zodpovednosť podľa týchto štandardov je uvedená v odseku Zodpovednosť audítora za audit účtovnej závierky. Od Elektrotechnického ústavu SAV, v. v. i. som nezávislá podľa ustanovení zákona č. 423/2015 o štatutárnom audite a o zmene a doplnení zákona č. 431/2002 Z. z. o účtovníctve v znení neskorších predpisov (ďalej len „zákon o štatutárnom audite“) týkajúcich sa etiky, vrátane Etického kódexu audítora, relevantných pre môj audit účtovnej závierky a splnila som aj ostatné požiadavky týchto ustanovení týkajúcich sa etiky. Som presvedčená, že audítorské dôkazy, ktoré som získala, poskytujú dostatočný a vhodný základ pre môj názor.

Iná skutočnosť
Účtovná závierka Elektrotechnického ústavu SAV, v. v. i. je auditovaná za rok 2023 v zmysle §26 ods.6 Zákona č.243/2017 o verejnej výskumnej inštitúcii ako prvý rok v štvorročnom cykle overenia účtovnej závierky štatutárnym audítorom.“

22. Prehľad príjmov a výdavkov

Zdroj	Program	Príjmy	Výdavky
111 Rozpočtové prostriedky kapitoly	NEALOKOVANÉ	2 983 879,32	2 972 168,32
131M Rozpočtové prostriedky kapitoly z predchádzajúcich rokov	NEALOKOVANÉ	11 000,-	25 413,36
111 Rozpočtové prostriedky kapitoly - APVV	06K0G	599 681,-	591 970,58
131M Rozpočtové prostriedky kapitoly - APVV z predchádzajúcich rokov	06K0G		4 973,45
111 Rozpočtové prostriedky kapitoly - od iných subjektov Ver. Správy	087010H	102 822,-	102 822,-
1AA1 Európsky fond regionálneho rozvoja	NEALOKOVANÉ	118 971,06	218 804,06
1AA2 Spolufinancovanie EFRR	NEALOKOVANÉ		11 745,07
3AA1 EFRR z predchádzajúcich rokov	NEALOKOVANÉ	274 611,62	191 120,35
3AA2 Spolufinancovanie EFRR z predchádzajúcich rokov	NEALOKOVANÉ	20 966,33	14 134,42
3P01 Plán obnovy z predchádzajúcich rokov	NEALOKOVANÉ	179 645,78	74 169,38
3P02 Plán obnovy DPH z predch. rokov	NEALOKOVANÉ	5 389,39	760,84
11GR Výskum, vývoj a inovácie – zahraničné granty	NEALOKOVANÉ	428 798,78	176 297,28
13GR Výskum, vývoj a inovácie – zahraničné granty z predch. rokov	NEALOKOVANÉ	96 855,32	206 151,33
35 Iné zdroje zo zahraničia	NEALOKOVANÉ	318 254,90	
46 Iné zdroje vyššie neuvedené	NEALOKOVANÉ	234 285,61	181 164,68
SPOLU:		**5 375 161,11**	**4 771 695,12**

23. Pohyb a konečný stav majetku

Majetok:	Prírastky	Úbytky	Konečný stav NETTO
Neobežný majetok:	**119 876,25**	**318 998,80**	**1 602 863,28**
dlhodobý nehmotný majetok	4 200,-		13 424,96
dlhodobý hmotný majetok	115 676,25	318 998,80	1 589 438,32
Obežný majetok:	**10 036 650,30**	**10 309 097,88**	**2 270 532,88**
Zásoby		437,72	22 631,91
krátkodobé pohľadávky	4 661 489,19	5 536 965,04	1 095 191,60
finančné účty	5 375 161,11	4 771 695,12	1 152 709,37
Časové rozlíšenie:	**9 330,23**	**1 311,02**	**9 330,23**
príjmy budúcich období	3 911,10	1 311,02	3 911,10
MAJETOK SPOLU:	**10 165 856,78**	**10 629 407,70**	**3 882 726,39**

24. Opatrenia na odstránenie nedostatkov v hospodárení a správa o plnení opatrení prijatých na odstránenie nedostatkov z predchádzajúceho roku

Opatrenia:
Príkaz riaditeľa ElÚ SAV č. 2/2023 preukázateľne oboznámiť zamestnancov zodpovedných za realizáciu projektov agentúry s výsledkami finančnej kontroly na mieste, s dôrazom na dodržiavanie príslušných zákonov, Záväzných podmienok hospodárenia s finančnými prostriedkami a usmernení agentúry z dôvodu predchádzania vzniku rovnakých nedostatkov zistených finančnou kontrolou na mieste pri riešení projektov podporených agentúrou a predkladaní ročných/ záverečných správ.

Správa o plnení prijatých opatrení:
Oboznámenie zamestnancov s výsledkami finančnej kontroly na mieste a zároveň zaslanie podmienok hospodárenia s FP v jednotlivých výzvach bolo vykonané 12.12.2023 elektronicky.

25. Ďalšie údaje o hospodárení organizácie

Organizácia nevykonáva podnikateľskú činnosť, ale vykonáva činnosť podliehajúcu dani z príjmov, ktorá sa eviduje oddelene od hlavnej činnosti.

Výročnú správu o hospodárení organizácie zostavil(i):

Ing. Jozef Fabian, CSc.
Iveta Tothová

Bratislava, 10.5.2024

RNDr. Vladimír Cambel, DrSc.
riaditeľ organizácie

PRÍLOHA K ČASTI B

B-1 Správa štatutárneho audítora k ročnej účtovnej uzávierke

Prílohu B-1 vkladajte, ak sa v danom roku vyhotovuje.
Inak uveďte: V danom roku nebola vyhotovená.

Ing. Monika Király, 9. mája 44/7, 960 01 Zvolen, LICENCIA UDVA č.735

SPRÁVA NEZÁVISLÉHO AUDÍTORA

pre štatutárny orgán Elektrotechnického ústavu SAV, v. v. i.

I. Správa z auditu účtovnej závierky

Názor

Uskutočnila som audit účtovnej závierky verejnej výskumnej inštitúcie **Elektrotechnický ústav SAV, v. v. i.,** Dúbravská cesta 9,841 04 Bratislava, IČO: 00598429 , ktorá obsahuje súvahu k 31. decembru 2023, výkaz ziskov a strát za rok končiaci sa k uvedenému dátumu a poznámky, ktoré obsahujú súhrn významných účtovných zásad a účtovných metód.

Podľa môjho názoru, priložená účtovná závierka poskytuje pravdivý a verný obraz finančnej situácie **Elektrotechnického ústavu SAV, v. v. i.** k 31. decembru 2023 a výsledku jeho hospodárenia za rok končiaci sa k uvedenému dátumu podľa zákona č.431/2002 Z. z. o účtovníctve v znení neskorších predpisov (ďalej len „zákon o účtovníctve").

Základ pre názor

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Iná skutočnosť

Účtovná závierka Elektrotechnického ústavu SAV, v. v. i. je auditovaná za rok 2023 v zmysle §26 ods.6 Zákona č.243/2017 o verejnej výskumnej inštitúcii ako prvý rok v štvorročnom cykle overenia účtovnej závierky štatutárnym audítorom.

Zodpovednosť štatutárneho orgánu za účtovnú závierku

Štatutárny orgán je zodpovedný za zostavenie tejto účtovnej závierky tak, aby poskytovala pravdivý a verný obraz podľa zákona o účtovníctve a za tie interné kontroly, ktoré považuje za potrebné na zostavenie účtovnej závierky, ktorá neobsahuje významné nesprávnosti, či už v dôsledku podvodu alebo chyby.

Pri zostavovaní účtovnej závierky je štatutárny orgán zodpovedný za zhodnotenie schopnosti Elektrotechnického ústavu SAV, v. v. i. nepretržite pokračovať vo svojej činnosti, za opísanie skutočností týkajúcich sa nepretržitého pokračovania v činnosti, ak je potrebné, a za použitie predpokladu nepretržitého pokračovania v činnosti v účtovníctve, ibaže by mal v úmysle v. v. i. zlikvidovať alebo ukončiť jeho činnosť, alebo by nemal inú realistickú možnosť než tak urobiť.

Zodpovednosť audítora za audit účtovnej závierky

Mojou zodpovednosťou je získať primerané uistenie, či účtovná závierka ako celok neobsahuje významné nesprávnosti, či už v dôsledku podvodu alebo chyby, a vydať správu audítora, vrátane názoru. Primerané uistenie je uistenie vysokého stupňa, ale nie je zárukou toho, že audit vykonaný podľa medzinárodných audítorských štandardov vždy odhalí významné nesprávnosti, ak také existujú.

Nesprávnosti môžu vzniknúť v dôsledku podvodu alebo chyby a za významné sa považujú vtedy, ak by sa dalo odôvodnene očakávať, že jednotlivo alebo v súhrne by mohli ovplyvniť ekonomické rozhodnutia používateľov, uskutočnené na základe tejto účtovnej závierky.

V rámci auditu uskutočneného podľa medzinárodných audítorských štandardov, počas celého auditu uplatňujem odborný úsudok a zachovávam profesionálny skepticizmus. Okrem toho:

- Identifikujem a posudzujem riziká významnej nesprávnosti účtovnej závierky, či už v dôsledku podvodu alebo chyby, navrhujem a uskutočňujem audítorské postupy reagujúce na tieto riziká a získavam audítorské dôkazy, ktoré sú dostatočné a vhodné na poskytnutie základu pre môj názor. Riziko neodhalenia významnej nesprávnosti v dôsledku podvodu je vyššie ako toto riziko v dôsledku chyby, pretože podvod môže zahŕňať tajnú dohodu, falšovanie, úmyselné vynechanie, nepravdivé vyhlásenie alebo obídenie internej kontroly.
- Oboznamujem sa s internými kontrolami relevantnými pre audit, aby som mohla navrhnúť audítorské postupy vhodné za daných okolností, ale nie za účelom vyjadrenia názoru na efektívnosť interných kontrol Elektrotechnického ústavu SAV, v. v. i.
- Hodnotím vhodnosť použitých účtovných zásad a účtovných metód a primeranosť účtovných odhadov a uvedenie s nimi súvisiacich informácií, uskutočnené štatutárnym orgánom.
- Robím záver o tom, či štatutárny orgán vhodne v účtovníctve používa predpoklad nepretržitého pokračovania v činnosti a na základe získaných audítorských dôkazov záver o tom, či existuje významná neistota v súvislosti s udalosťami alebo okolnosťami, ktoré by mohli významne spochybniť schopnosť Elektrotechnického ústavu SAV, v. v. i. nepretržite pokračovať v činnosti. Ak dospejem k záveru, že významná neistota existuje, som povinná upozorniť v mojej správe audítora na súvisiace informácie uvedené v účtovnej závierke alebo , ak sú tieto informácie nedostatočné, modifikovať môj názor. Moje závery vychádzajú z audítorských dôkazov získaných do dátumu vydania mojej správy audítora. Budúce udalosti alebo okolnosti však môžu spôsobiť, že Elektrotechnický ústav SAV, v. v. i. prestane pokračovať v nepretržitej činnosti.
- Hodnotím celkovú prezentáciu, štruktúru a obsah účtovnej závierky vrátane informácií v nej uvedených, ako aj to, či účtovná závierka zachytáva uskutočnené transakcie a udalosti spôsobom, ktorý vedie k ich vernému zobrazeniu.
- So štatutárnym orgánom komunikujem okrem iných záležitostí plánovaný rozsah a časový harmonogram auditu a významné zistenia z auditu, vrátane významných nedostatkov v interných kontrolách, ktoré identifikujem počas môjho auditu.

Správa k ďalším požiadavkám zákonov a iných právnych predpisov

II. Správa k informáciám, ktoré sa uvádzajú vo výročnej správe

Štatutárny orgán je zodpovedný za informácie uvedené vo výročnej správe, zostavenej podľa požiadaviek zákona o účtovníctve a Zákona č.243/2017 o verejnej výskumnej inštitúcii a o zmene a doplnení niektorých zákonov. Môj vyššie uvedený názor na účtovnú závierku sa nevzťahuje na iné informácie vo výročnej správe.

V súvislosti s auditom účtovnej závierky je mojou zodpovednosťou oboznámenie sa s informáciami uvedenými vo výročnej správe a zváženie, či tieto informácie nie sú vo významnom nesúlade s auditovanou účtovnou závierkou alebo mojimi poznatkami, ktoré som získala počas auditu účtovnej závierky, alebo sa inak zdajú byť významne nesprávne.

Posúdila som, či výročná správa Elektrotechnického ústavu SAV, v. v. i. obsahuje informácie, ktorých uvedenie vyžaduje Zákon č.243/2017 o verejnej výskumnej inštitúcii.

Ing. Monika Király, 9. mája 44/7, 960 01 Zvolen, LICENCIA UDVA č.735

Na základe prác vykonaných počas auditu účtovnej závierky, podľa môjho názoru:

- informácie uvedené vo výročnej správe zostavenej za rok 2023 sú v súlade s účtovnou závierkou za daný rok,

- výročná správa obsahuje informácie podľa zákona o verejnej výskumnej inštitúcii

Okrem toho, na základe mojich poznatkov o účtovnej jednotke a situácii v nej, ktoré som získala počas auditu účtovnej závierky, som povinná uviesť, či som zistila významné nesprávnosti vo výročnej správe, ktorú som obdržala pred dátumom vydania tejto správy audítora. V tejto súvislosti neexistujú zistenia, ktoré by som mala uviesť.

Zvolen, 21. mája 2024

Ing. Monika Király
9. mája 44/7
960 01 Zvolen

Ing. Monika Király
Štatutárny audítor
Licencia UDVA 735