Elektrotechnický ústav SAV, v. v. i.

E L Ú

S A V

Výročná správa o činnosti a hospodárení za rok 2025

Bratislava
január 2026

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ČASŤ A

Elektrotechnický ústav SAV, v. v. i.

Výročná správa o činnosti organizácie
za rok 2025

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Elektrotechnický ústav SAV, v. v. i.
Riaditeľ: RNDr. Vladimír Cambel, DrSc.
1. zástupca riaditeľa: Ing. Milan Ťapajna, PhD.
2. zástupca riaditeľa: Ing. Ján Fedor, PhD
Vedecký tajomník: RNDr. Marianna Španková, PhD
Predseda správnej rady: RNDr. Vladimír Cambel, DrSc.
Predseda vedeckej rady: RNDr. Dagmar Gregušová, DrSc.
Predseda dozornej rady: prof. RNDr. Peter Samuely, DrSc., akademik US Slovenska
Člen Snemu SAV: Mgr. Michaela Sojková, 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	124	88	36	26	7	121	93.35	73.23	10.96
Vedeckí pracovníci	68	56	12	14	2	66	56.59	55.59	2
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci[1])	26	19	7	10	5	25	12.38	11.54	1
Odborní pracovníci VŠ (ostatní zamestnanci[2])	7	2	5	0	0	7	5.86	0.5	1.86
Odborní pracovníci ÚS	18	10	8	2	0	18	14.1	5.6	6.1
Ostatní pracovníci	5	1	4	0	0	5	4.42	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 31.12.2025 (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 31.12.2025 (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 31.12.2025)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	6	48	0	3	6	27	23
Ženy	2	10	0	1	2	6	4

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	12	8.4	14	11.5	9	8.4	10	9.3	7	7.0	3	3.0	2	2.0	3	3.0	17	11.9

Ženy	4	1.5	3	2.1	1	1.0	4	4.0	0	0.0	0	0.0	2	2.0	1	1.0	5	4.2
Spolu	16	9.9	17	13.6	10	9.4	14	13.3	7	7.0	3	3.0	4	4.0	4	4.0	22	16.1

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

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2025

	Kmeňoví zamestnanci	**Vedeckí pracovníci**	**Riešitelia projektov**
Muži	46.9	46.2	46.4
Ženy	52.9	49.2	46.9
Spolu	48.6	46.7	46.5

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

2. Vedecko-výskumná činnosť – projekty, výsledky

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2025

ŠTRUKTÚRA PROJEKTOV	**Počet**		**Čerpané financie (€)**					
			A				**B**	
	A	**B**	**Zo zdrojov SAV**		**Z iných zdrojov**		**Zo zdrojov SAV**	**Z iných zdrojov**
			Spolu	**Pre organi-záciu**	**Spolu**	**Pre organi-záciu**		
1. Projekty VEGA	10	2	-	-	158488	158488	-	7883
2. Projekty APVV	14	5	-	-	471181	296724	-	72314
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	16	1	-	-	954427	954427	-	64382
4. Projekty SASPRO	0	0	-	-	-	-	-	-
5. Projekty IMPULZ	1	0	189202	189202	-	-	-	-

6. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	8	0	28989	28989	48278	48278	-	-

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

Tabuľka 2b Domáce projekty podané v roku 2025

Štruktúra projektov	**Miesto podania**	**Organizácia je nositeľom projektu**	**Organizácia sa zmluvne podieľa na riešení projektu**
1. Účasť na nových výzvach APVV r. 2025	-	7	4
2. Projekty výziev EŠIF podané r. 2025	Bratislava	1	1
	Regióny	0	1

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2025

Tabuľka 2c Medzinárodné projekty riešené v roku 2025

ŠTRUKTÚRA PROJEKTOV	**Počet**		**Čerpané financie (€)**					
			A				**B**	
	A	**B**	**Zo zdrojov SAV**		**Z iných zdrojov**		**Zo zdrojov SAV**	**Z iných zdrojov**
			Spolu	**Pre organi-záciu**	**Spolu**	**Pre organi-záciu**		
1a. Projekty Horizont 2020	0	3	-	-	-	-	12275	11954
1b. Projekty Horizont Európa	0	2	-	-	-	-	18419	163712
2. Projekty ERA.NET, ESA, JRP	1	2	40385	40385	-	-	37019	-
3. Projekty COST	0	2	-	-	-	-	1125	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	1	2	-	-	-	-	4603	565228
5. Projekty v rámci medzivládnych dohôd	1	0	-	-	-	-	-	-
6. Projekty Mobility, Mobility Basic, Open Mobility a Mobility Visit	1	0	1500	1500	-	-	-	-

7. Bilaterálne projekty ostatné	3	0	26801	26801	-	-	-	-
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	0	0	-	-	-	-	-	-
9. Podpora excelentného výskumu: SAS-UPJŠ ERC Visiting Fellowship Grants, Seal of Excelence, TANDEM	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 2025

Tabuľka 2d Počet projektov Horizont Európa v roku 2025

	A	**B**
Počet podaných projektov I. pilier (Excelentná veda: MSCA, ERC, RI)	2	0
Počet podaných projektov II. pilier (klastre 1-6)	0	0
Počet podaných projektov III. pilier (EIC, EIT)	0	0
Počet podaných projektov Widera (Teaming, Twinning, Hop On Facility ...)	0	0

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 2025

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: Hexatická fáza v kovalentnom dvojrozmernom jodide striebornom

Fázové prechody prvého rádu v trojrozmerných (3D) materiáloch sú charakterizované nespojitými (prvého rádu) zmenami termodynamických veličín, ako je napríklad entropia. Bežným príkladom je topenie ľadu na vodu sprevádzané okamžitou stratou jeho kryštálových symetrií. V 2D systémoch však boli navrhnuté ďalšie scenáre topenia. Napríklad prechod Kosterlitza-Thoulessa opisuje kontinuálny dvojkrokový proces prebiehajúci prostredníctvom orientačne usporiadanej medzifázy podobnej kvapaline, známej ako hexatická fáza. V tejto práci sa pomocou in situ skenovacej transmisnej mikroskopie a elektrónovej difrakcie sledovali štrukturálne zmeny jodidu strieborného vloženého do viacvrstvového grafénu pri zvyšujúcej sa teploty vzorky. Hexatická fáza, ktorá má len translačný poriadok krátkeho dosahu, sa skutočne objavila v úzkom teplotnom okne tesne predtým, ako sa jodid strieborný roztopil.
Prínos pracovníkov ElÚ SAV k tejto práci bol zásadný, keďže metóda prípravy takých vzoriek bola vyvinutá a aj vzorky samotné boli syntetizované na ElÚ SAV.

Publikácia:
BUI, T.A. - LAMPRECHT, D. - MADSEN, H.J. - KURPAS, M. - KOTRUSZ, Peter - MARKEVICH, A. - MANGLER, C. - KOTAKOSKI, J. - LAMPRECHT, L. - MEYER, J.C. - PENNYCOOK, T.J. - SKÁKALOVÁ, Viera - MUSTONEN, K.**. Hexatic phase in covalent two-dimensional silver iodide. In Science, 2025, vol. 390, p. 6777. (2024: 45.8 - IF, Q1 - JCR, 10.416 - SJR, Q1 - SJR). ISSN 0036-8075. Dostupné na: https://doi.org/10.1126/science.adv7915 Typ: ADCA

2.3.2. Výsledky aplikačného typu

Názov: CRYOPROP projekt v spolupráci s AIRBUS UpNEXT

Riešitelia: E. Pardo, A. Hussain, A. Dadhich, J. Šouc, J. Kováč

Kontrakt s priemyselným partnerom: AIRBUS UpNext project CRYOPROP (93 855 EUR paid in 2025)

Koncový užívateľ: AIRBUS

Komerčný letecký priemysel je rastúci zdroj emisií skleníkových plynov (CO_2, NOx, a vodná para vo vysokých nadmorských výškach). Elektrické lietadla využívajúce vodík ako palivo sú schopné generovať nulové CO_2 emisie a ak je elektrina generovaná na palube pomocou palivových článkov, nevytvárajú ani NOx a vypúšťajú len malé množstvá vodnej pary. Z tohto dôvodu Európska komisia sformulovala požiadavky na lietadlo s vodíkovým pohonom v dokumente „ACARE fly-the-green-deal“, kde sa určili viaceré ciele, ako napr. mať v roku 2035 certifikované lietadlo na vodíkový pohon a vybudovanie aspoň 100 vodíkových centier na Európskych letiskách. Na základe týchto požiadaviek Airbus plánuje skonštruovať prvé lietadlo poháňané vodíkom do budúcej dekády, pričom supravodivé elektrické pohony sa javia ako sľubný zdroj pohonu. Supravodivé motory sú veľmi vhodné pre budúce vodíkom poháňané lietadla vďaka ich vysokej výkonnosti na jednotku hmotnosti, ktorá je pre vodíkové lietadlá stanovená na hodnotu 25 kW/kg. Na základe zmluvy so spoločnosťou Airbus Elektrotechnický ústav,v.v.i realizoval zmluvný výskum v rámci projektu CRYOPROP [1], ktorý výrazne navýšil financovanie oproti predchádzajúcim dvom rokom a ktorého cieľom bolo modelovanie striedavých strát v supravodivom motore a overenie simulácií na testovacích cievkach. Publikované výsledky sa venovali elektro-tepelnému „quench-u“ v REBCO supravodivých cievkach pri jednosmernom a striedavom elektrickom napätí [2]. Získané výsledky o striedavých stratách v statore elektromotora a ďalšie elektromagnetické numerické výpočty sme prezentovali na medzinárodných konferenciach a partnerovi sme dodali aj požadované merania strát na testovacích cievkach.

Publikácie:

[1] CRYOPROP project from AIRBUS UpNEXT: https://www.airbus.com/en/newsroom/press-releases/2024-05-airbus-takes-superconductivity-research-for-hydrogen-powered#related-assets

[2] HUSSAIN, Arif - DADHICH, Anang - PARDO, Enric**. Thermal quench modeling of REBCO racetrack coils under conduction cooling at 30 K for aircraft electric propulsion motors. In Superconductor Science and Technology, 2025, vol 38, no. 105012. (2024: 4.2 - IF, Q2 - JCR, 1.095 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: https://doi.org/10.1088/1361-6668/ae06ca (APVV 19-0536.) Typ: ADCA

2.3.3. Výsledky na báze medzinárodnej spolupráce

Výsledok č. 1:

Autori: P. Kováč, J. Kováč, T. Melišek, D. Berek, I. Hušek, L. Kopera, M Búran, K. Gažová

Projekty: HorizonEurope SCARLET No. 101075602, Research Agreement between NIMS Japan and ElÚ, EU NextGeneration EU POO No. 09I04-03-V02-00039, spolupráca Hyper Tech Research Inc.

USA

Striedavé straty v MgB_2 drôtoch a kábloch rôzneho zloženia boli merané pri nízkych teplotách 20-40 K a striedavých vonkajších poliach s rôznou frekvenciou [1-3]. Zistilo sa, že celkové striedavé straty sú ovplyvnené použitými kovovými obalmi v dôsledku ich rôznych vodivostí ako aj magnetických vlastností. Obzvlášť efekty tienenia magnetickým Ni a Monel obalom ovplyvnili merané tepelné závislosti striedavých strát [5]. Porovnanie striedavých strát v kruhových kábloch so stratami vo vláknitých MgB_2 drôtoch ukázalo, že káblovanie jedno-žilových drôtov s tenkým vláknom je efektívnou cestou na zníženie strát od väzobných prúdov [2-3]. Aj napriek malému rozmeru vlákien ~20 μm a ich skrúteniu s krokom 20 mm jednotlivých drôtov v of 12 x 54-vláknovom kábli, celkové straty pri 20 K kábla z 12 x 1-žilových drôtov sú ~5 krát nižšie v dôsledku prúdovo neviazaných vlákien [2]. Koaxiálny kábel spletený zo 49-tich 1-žilových drôtov demonštruje vhodnú konštrukciu kábla z ultra-tenkých MgB_2 drôtov s priemerom menším ako ľudský vlas [3]. Preto pre praktické striedavé aplikácie bude výhodná konštrukcia kábla urobeného z 12-tich sub-káblov do usporiadania Rutherford-typu a bude v budúcnosti ďalej optimalizovaná.

Publikácie:

[1] SOLDATI, L.** - DULAR, J. - KOVÁČ, Ján - KOVÁČ, Pavol - CIALONE, M. - SPINA, T. - BRUZEK, C.-E. - WOZNIAK, Marek - PUTTI, M. - BRESCHI, M. Numerical and experimental investigation of AC losses in MgB2 wires. In Superconductor Science and Technology, 2025, vol. 38, no. 065019. (2024: 4.2 - IF, Q2 - JCR, 1.095 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: https://doi.org/10.1088/1361-6668/addd88 Typ: ADCA

[2] KOVÁČ, Pavol** - KOVÁČ, Ján - BEREK, Dušan - RINDFLEISCH, M. - BÚRAN, Marek - MELIŠEK, Tibor - HUŠEK, Imrich - TOMSIC, M. Rutherford MgB2 cable with 20 μm twisted filaments inside the Nb/CuNi/CuZn sheath. In Superconductivity, 2025, vol. 14, art. no. 100172. (2024: 6.2 - IF, Q1 - JCR, 1.724 - SJR, Q1 - SJR). ISSN 2772-8307. Dostupné na: https://doi.org/10.1016/j.supcon.2025.100172 Typ: ADMA

[3] KOVÁČ, Ján - KOVÁČ, Pavol** - BÚRAN, Marek - MELIŠEK, Tibor - GAŽOVÁ, Kristína - KIKUCHI, A. DC and AC properties of 49-strand circular cables made of differently sheathed ultrafine MgB2 superconducting wires. In Superconductor Science and Technology, 2025, vol. 38, no. 055028. (2024: 4.2 - IF, Q2 - JCR, 1.095 - SJR, Q1 - SJR). ISSN 0953-2048. Dostupné na: https://doi.org/10.1088/1361-6668/add439 Typ: ADCA

Výsledok č. 2:

Názov: **Rotational domains and origin of improved crystal quality in heteroepitaxial (-201) β-Ga_2O_3 films grown on vicinal substrates by MOCVD**

Riešitelia: Chouhan, H., Dobročka, E., Nádaždy, P., Ťapajna, M., Hušeková, K., Cora, I., Rosová, A., Mikolášek, M., Egyenes, F., Keshtkar, J., Hrubišák, F., Sobota, M., Šiffalovič, P., Gregušová, D., Pohorelec, O., Wosko, M., Paszkiewicz, R., a Gucmann, F.

Zahraničný partner:

1. HUN-REN Centre for Energy Research, Institute of Technical Physics and Materials Science, Konkoly-Thege M. ut 29-33, Budapest 1121, Hungary

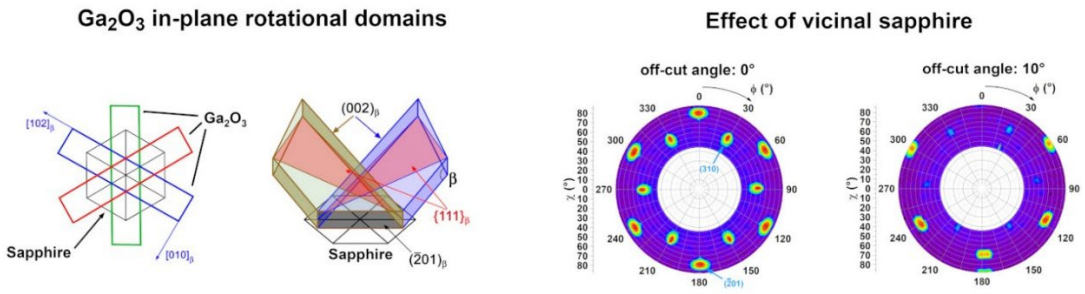
2. Wroclaw University of Science and Technology, Faculty of Electronics, Photonics and Microsystems, Janiszewskiego 11/17, Wroclaw 50-370, Poland

Súvisiaci medzinárodný projekt:

Stredoeurópsky kompetenčný klaster pre (ultra)širokopásmové polovodiče / (Zodp. riešiteľ: F. Gucmann, International Visegrad Fund #22320095),

Popis:

Monoklinický oxid galitý (β-Ga_2O_3) predstavuje perspektívny materiál pre vysokovýkonové a vysokonapäťové elektronické súčiastky. Homoepitaxné β-Ga_2O_3 vrstvy vykazujú vynikajúcu kryštalografickú kvalitu, avšak ich využitie je obmedzené problémami so škálovateľnosťou, vysokou cenou substrátov a nedostatočným odvodom stratového tepela. Na druhej strane heteroepitaxný rast na priemyselne kompatibilých substrátoch, ako sú zafír, SiC a Si, poskytuje praktickú alternatívu, no často vedie k vysokej hustote kryštalických defektov a k zhoršeniu vlastností pripravených vrstiev. Navyše ich hexagonálna povrchová symetria podporuje vznik rotačných domén (RD) čo ďalej degraduje kvalitu rastených vrstiev.
S cieľom preskúmať vzťah medzi RD a substrátmi s čiastočne narušenou hexagonálnou povrchovou symetriou sme pripravili (-201) orientované β-Ga_2O_3 vrstvy na zafírových substrátoch c orientácie s kontrolovaným odklonom smerom k rovine a v rozsahu 0° až 10° použitím metódy chemickej depozície z pár organokovov s tekutým vstretkovaním prekurzorov (LI-MOCVD). Na rozdiel od predchádzajúcich prác sme nepozrovali výrazné potlačenie hlavných RD pri žiadnom uhle odklonu substrátu. Na druhej strane sme ukázali, že pre identifikáciu všetkých prítomných RD je potrebné meranie pólových obrazcov, zatiaľ čo konvenčné azimutálne skeny röntgenovej difrakcie (XRD) mohli poskytovať zavádzajúce výsledky.
Napriek prítomnosti šiestich RD v pripravených vrstvách viedlo použitie substrátov s odklonom povrchu k zlepšeniu kryštalickej kvality, povrchovej drsnosti a elektrických vlastností (-201) β-Ga_2O_3 vrstiev. Analýza preukázala zníženie mozaicity v smere kolmom na "povrchové schodíky" substrátu, čo sa prejavilo poklesom pološírky XRD "rocking" kriviek z približne 2,1° na približne 1,1° pre substráty s odklonom 0°, resp. 10°. Zároveň bolo pozorované účinné potlačenie rastu parazitných β-Ga_2O_3 kryštálov s orientáciou (310); pre zafír s 10° odklonom bola zistená približne stonásobne nižšia XRD intenzita voči majoritnej orientácii (-201).
Naše dosiahnuté výsledky objasňujú komplexnú úlohu odklonených substrátov a naznačujú, že potlačenie RD nemusí byť dosiahnuteľné konvenčným prístupom založeným výlučne na narušení povrchovej symetrie pomocou takýchto substrátov.



Schematické zobrazenie šestice rotačných domén (3 orientácie v pôdoryse a 2 možné náklony zŕn pre každú orientáciu) – vľavo. Pólové obrazce získané technikou RTG difrakcie pre Ga_2O_3 pre vrstvy rastené metódou MOCVD na zafírových substrátoch s odklonom 0° a 10° od roviny c smerom k rovine a zobrazujúce potlačenie (310) rotačných domén a zachovanie (-201) rotačných domén.
Publikácia:

CHOUHAN, Hemendra - DOBROČKA, Edmund - NÁDAŽDY, Peter - ŤAPAJNA, Milan - HUŠEKOVÁ, Kristína - CORA, Ildikó - ROSOVÁ, Alica - MIKOLÁŠEK, M. - EGYENES, Fridrich - KESHTKAR, Javad - HRUBIŠÁK, Fedor - SOBOTA, Michal - ŠIFFALOVIČ, Peter - GREGUŠOVÁ, Dagmar - POHORELEC, Ondrej - WOSKO, M. - PASZKIEWICZ, R. - GUCMANN, Filip**. Rotational domains and origin of improved crystal quality in heteroepitaxial (201) β-Ga_2O_3 films grown on vicinal substrates by MOCVD. In Journal of Alloys and Compounds, 2025, vol. 1044, art. no. 184481. (2024: 6.3 - IF, Q1 - JCR, 1.192 - SJR, Q1 - SJR, karentované - CCC). (2025 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: https://doi.org/10.1016/j.jallcom.2025.184481 Typ: ADCA

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2025/ doplnky z r. 2024
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	**0 / 0**
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	**0 / 0**
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	**0 / 0**
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	**0 / 0**
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	**0 / 0**
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	**0 / 0**
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	**0 / 0**
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	**0 / 0**
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	**37 / 0**
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	**9 / 5**
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	**0 / 0**
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	**1 / 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)	**17 / 0**
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	**0 / 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. 2024 (zdroj JCR) *Počet článkov / doplnky*	17 / 0	15 / 0	4 / 0	5 / 0	41 / 0
Podľa SJR z r. 2024 (zdroj Scimago) *Počet článkov / doplnky*	31 / 0	4 / 0	5 / 0	6 / 5	46 / 5

Tabuľka 2g Ohlasy

OHLASY	**Počet v r. 2024/ doplnky z r. 2023**
Citácie vo WOS (1.1, 2.1)	1691 / 28
Citácie v SCOPUS (1.2, 2.2)	152 / 5
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 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	108
Prednášky a vývesky na národných vedeckých podujatiach	20

2.6. Vyžiadané prednášky

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

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

1. Gömöry, F., Šouc, J., Solovyov, M., Kucharovič, Kujovič, Landvogt, S., Pekarčíková, M., Bahl, C., and Wulff, A.: Striation for the reduction of AC loss and magnetization of CC tapes and cables. In: Inter. Workshop Coated Conductors for Appl. - CCA 2025. CERN 2025.
2. Gömöry, F., Šouc, J., Solovyov, M., Kucharovič, M., Kujovič, T., Landvogt, S., Pekarčíková, M., Bahl, C., and Wulff, A.: Effect of striations on AC losses in (round) REBCO cables Effect of striations on AC losses in REBCO cables. In: Workshop 2nd High Temp. Supercond. Accelerator Technol. (HiTAT-2). CERN 2025.
3. Gucmann, F., Hušeková, K., Dobročka, E., Nádaždy, P., Zápražný, Z., Gregušová, D., Rosová, A., Egyenes, F., Sobota, M., Pohorelec, O., Kozak, A., Keshtkar, J., Hrubišák, F., Chouhan, H., Krettová, M., Vadamundi, S.G., Roshan, J.C., Kumar, S., Ťapajna, M., Yilmaz, S., and Kaya, S.: Gallium oxide for optoelectronic and power-electronic devices. In: Inter. Conf. Sensor, Detector, Mater. Sci Technol. – SensDeTec. Bolu (Turecko) 2025.
4. Hudec, B.: DALP as an enabler for bottom-up fabrication of neuromorphi sensors. In: ATOMHAGEN 2025. Kodaň 2025.
5. Hudec, B., Horský, M., Dehghan, M., Ščepka, T., Krylov, S., Stoklas, R., Patrnčiak, M., and Plecenik, T.: Bottom-up approach towards in-sensor computing. In: IEEE 15th Inter. Conf. "Nanomaterials: Applications & Properties" (IEEE NAP-2025). Bratislava 2025.

6. Chromik, Š., Španková, M., Rosová, A., Dobročka, E., Gregor, M., Moško, M., Talacko, M., Cordier, Y., and Giannazzo, F. Peculiarities of the MoS?/AlN/Si structure behaviour. In SURFINT - SREN IX. Smolenice 2025.
7. Kuzmík, J.: InN/InAlN heterostructures for new generation of fast electronics. In: 17th Inter. Symp. on Adv. Plasma Sci ISPlasma 2025. Chubu Univ. 2025.
8. Moško, M., Gregor, M., Mošková, A., and Plecenik, T.: Point contact spectroscopy of disordered superconductors: disorder-enhanced Andreev conductance peak. In: IEEE 15th Inter. Conf. "Nanomaterials: Applications & Properties" (IEEE NAP-2025). Bratislava 2025.
9. Skákalová, V., Kotrusz, P., An Bu, T.T., Precner, M., Parshin, A., Pribusová Slušná, L., Hulman, M., and Mustonen, K.: MoS_2 and WS_2 synthesized in graphene oxide at ambient conditions. In: 37th Inter. Winterschool on Electronic Properties of Novel Mater. (IWEPNM) Kirchberg 2025.
10. Skákalová, V., Kotrusz, P., Bui, T.A., Precner, M., Pershin, A., Pribusová Slušná, L., Hulman, M., and Mustonen, K.: MoS_2 and WS_2 synthesized in graphene oxide at ambient conditions. In: IEEE 15th Inter. Conf. "Nanomaterials: Applications & Properties" (IEEE NAP-2025). Bratislava 2025.
11. Ťapajna, M., Egyenes, F., Hrubišák, F., Hušeková, K., Dobročka, E., Rosová, A., Vincze, A., Moško, M., and Gucmann, F.: Transport and thermal properties of heteroepitaxial Ga_2O_3 MOSFETs grown by liquid-injection MOCVD. In: IEEE 15th Inter. Conf. "Nanomaterials: Applications & Properties" (IEEE NAP-2025). Bratislava 2025.
12. Ťapajna, M., Egyenes, F., Hrubišák, F., Hušeková, K., Dobročka, E., Nadáždy, P., Rosová, A., and Gucmann, F.: Heteroepitaxy of Ga_2O_3 films using liquid-injection MOCVD: Impact of Hydrogen annealing on transport properties of MOSFETs. In: 10th Inter. Symp. Organic Inorg. Electronic Mater. Related Nanotechnol. (EM-NANO). Fukui 2025.
13. Zaťko, B., Šagátová, A., Kurucová, N., Kováčová, E., and Varga, M.: Perspectives and applications of 4H-SiC and single crystal diamond detectors. In 9th Inter. Conference on Advan. Nuclear Instrum. Measurement Methods Appl. ANIMMA 2025. Workshop N°2: Novel perspectives for radiation detection materials. Valencia 2025.
14. Zaťko, B.: Diamond and SiC as perspective materials for semiconductor radiation detectors. 26th Inter. Workshop on Radiation Imaging Detectors - IWORID2025. Bratislava 2025.

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

1. Feilhauer, J.: Unidirectional edge states in topological magnonic crystal. In Central European Inst. of Technology (CEITEC). Brno 2025.
2. Hudec, B.: In-sensor computing as a new paradigm for smart sensors. FMFI UK, Bratislava 2025. Invited.
3. Kuzmík, J.: InN/InAlN heterostructures for new generation of fast electronics. European Space Agency Working Group Meeting. Noordwijk 2025.

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2025

2.7.1. Vynálezy, na ktoré bol v roku 2025 udelený patent

a) na Slovensku

Názov vynálezu: Spôsob výroby hrotu pre magnetickú silovú mikroskopiu, hrot vyrobený týmto spôsobom a spôsob skenovania magnetického poľa použitím tohto hrotu
Číslo patentu: 289373
Dátum udelenia: 15.10.2025
Majiteľ / spolumajiteľ: Elektrotechnický ústav SAV
Pôvodcovia vynálezu: Cambel Vladimír, Šoltýs Ján, Tóbik Jaroslav, Fedor Ján, Precner Marián, Feilhauer Juraj, Ščepka Tomáš, Dérer Ján, Bublikov Konstantin, Vetrova Iuliia

Názov vynálezu: Veľkoplošný detektor jadrových častíc a žiarenia na dozimetrické alebo spektrometrické merania, spôsob jeho výroby a zapojenie
Číslo patentu: 289354
Dátum udelenia: 27.8.2025
Majiteľ / spolumajiteľ: Elektrotechnický ústav SAV, v.v.i.
Pôvodcovia vynálezu: Zaťko Bohumír, Dubecký František

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2025

a) na Slovensku

b) v iných krajinách ako prioritná prihláška

c) PCT

d) EP

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

2.7.3. Úžitkové vzory na Slovensku

a) prihlásené v roku 2025

b) udelené v roku 2025

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 2025 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
Sojková Michaela	VEGA	2
Soloviov Mykola	VEGA	1
Ščepka Tomáš	VEGA	1
Šoltýs Ján	VEGA	1
Ťapajna Milan	KEGA	1
	Program na podporu mladých výskumníkov STU	1
Tóbik Jaroslav	VEGA	1

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch

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

Meno pracovníka	Ved. monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Blaho Michal	0	0	1	0	0	0	0
Egyenes Fridrich	0	0	1	0	0	2	0
Feilhauer Juraj	0	0	3	0	0	0	0
Gömöry Fedor	0	0	16	0	0	0	0
Gregušová Dagmar	0	0	13	0	0	0	0
Gucmann Filip	0	0	15	0	0	2	2
Hudec Boris	0	0	3	0	0	0	0
Hulman Martin	0	0	7	0	0	0	0
Izsák Tibor	0	0	3	0	0	0	0
Kováč Pavol	0	0	25	0	0	0	0
Kozak Andrii	0	0	11	0	0	2	1
Kozak Iryna	0	0	0	0	0	1	0
Kuzmík Ján	0	0	2	0	0	0	0
Pardo Enric	0	0	3	0	0	0	0
Pohorelec Ondrej	0	0	2	0	0	0	0
Rosová Alica	0	0	3	0	0	0	0
Seiler Eugen	0	0	1	0	0	0	0

Sobota Michal	0	0	2	0	0	0	3
Sojková Michaela	0	0	9	0	0	0	0
Soloviov Mykola	1	0	6	0	0	0	0
Stoklas Roman	0	0	8	0	0	2	0
Šoltýs Ján	0	0	1	0	0	0	0
Španková Marianna	0	0	2	0	0	0	0
Ťapajna Milan	0	0	20	0	0	4	0
Tóbik Jaroslav	0	0	2	0	0	0	0
Varga Marian	0	0	1	0	0	0	0
Zaťko Bohumír	0	0	4	0	0	2	0
Spolu	**1**	**0**	**164**	**0**	**0**	**15**	**6**

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 2025 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

IWORID 2025, Aula FIIT STU Bratislava, 250 účastníkov, 06.07.-10.07.2025
Medzinárodná konferencia bola zameraná na výskum radiačných detektorov s využitím pre zobrazovanie, ktorej sa zúčastnilo takmer 250 expertov z celého sveta zaoberajúcich sa výskumom a aplikáciami detektorov ionizujúceho žiarenia.

IEEE NAP 2025 – 15. ročník IEEE Medzinárodná konferencia IEEE o nanomateriáloch ich aplikáciách a vlastnostiach , Hotel Crowne Plaza v Bratislave, Slovensko, 07.09.-12.09.2025
Podujatie priviedlo na Slovensko popredných výskumníkov, inžinierov, pedagógov a inovátorov z celého sveta.
IEEE NAP je uznávané a prestížne medzinárodné fórum prezentujúce najnovšie pokroky v oblasti nanovedy a nanotechnológií, ktoré prinášajú prelomové objavy v oblastiach ako kvantová informačná veda, nízkoenergetická elektronika, superpočítače, pokročilé medicínske terapie, obnoviteľné zdroje energie a technológie čistého ovzdušia.
Hlavným vrcholom IEEE NAP-2025 bolo špeciálne sympózium s názvom “The MXene Frontier: Transformative Nanomaterials Shaping the Future” (MXeny na hranici poznania: nanomateriály, ktoré menia budúcnosť). MXeny, revolučná trieda dvojrozmerných nanomateriálov, si získavajú veľkú pozornosť vďaka svojej výnimočnej univerzálnosti – spájajú kovovú vodivosť, hydrofilitu a nastaviteľnú povrchovú chémiu, pričom nachádzajú uplatnenie naprieč viacerými disciplínami.
Prijaté konferenčné príspevky boli podrobené prísnemu recenznému konaniu a kvalitné práce boli odporučené na publikovanie v IEEE Xplore Digital Library (indexované v Scopus, podlieha schváleniu IEEE).
Usporiadaním IEEE NAP-2025 sa Bratislava stala miestom stretnutia globálnej komunity nanomateriálov a ponúkne jedinečnú platformu na výmenu poznatkov, rozvíjanie spolupráce a inovácií.

3.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2026 (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
Blázyová Miroslava	0	1	0
Cambel Vladimír	0	0	1
Fabian Jozef	0	1	0
Gömöry Fedor	1	0	2
Gucmann Filip	1	0	0
Precner Marián	0	1	0
Skákalová Viera	2	0	0
Talacko Marcel	0	1	0
Ťapajna Milan	1	0	0
Zaťko Bohumír	0	1	0
Spolu	**5**	**5**	**3**

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
Gömöry Fedor	FRS-F.N.R.S (Belgicko) - EQUIPMENT	1
	Helmholz Distinguished Professorship (Nemecko)	1
Kuzmík Ján	European Innovation Council call 1	5
	European Innovation Council call 2	6

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

V rámci programu „Mobility Visit“ bol umožnený krátkodobý pobyt významného zahraničného vedca (Ing. Gábor Méhes, D.Eng., Waseda University, Japonsko) na SAV spojený s celoakademickou prednáškou „Advancements in the fields of organic electronics and bioelectronics through research in Japan, Sweden, and the US“, kde Dr. Méhes prezentoval svoje vedecké výsledky v oblasti organickej elektroniky, bioelektroniky, mikrobiálnej elektrochémie, fotosyntetického získavania energie a flexibilnej hybridnej elektroniky získané počas svojej vedeckej kariéry v niekoľkých popredných svetových laboratóriách v Japonsku, Švédsku a USA. Cieľom bolo popularizácia špičkovej svetovej vedy pre širšie akademické aj neakademické publikum, ako aj možné nadviazanie a prehĺbenie vzájomnej spolupráce.

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: Materiálový výskum a výskum stability ALD memristora a priečnych štruktúr z memristorov
Zadávateľ výskumného kontraktu: Bizzcom s.r.o.
Začiatok spolupráce: 2024
Ukončenie spolupráce: trvá
Finančný prínos pre organizáciu (€): 240000

Názov/účel kontraktového výskumu: Participation of IEE to CRYOPROP
Zadávateľ výskumného kontraktu: AIRBUS UpNext (France)
Začiatok spolupráce: 2024
Ukončenie spolupráce: 2026
Finančný prínos pre organizáciu (€): 93848

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 2025

Forma	Počet k 31.12.2025				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2025					
							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	8	4	3	2	3	1	0	0	0	0	0	0
Denná z iných zdrojov	2	0	0	0	3	0	1	0	0	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0	0	0
Spolu	10	4	3	2	6	1	1	0	0	0	0	0
Z toho zahraničných	6	1	2	0	3	1	1	0	0	0	0	0
Súhrn	14		5		7		1		0		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 2025 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.
Pod predčasným ukončením rozumieme ukončenie bez obhajoby dizertačnej práce pričom doktorand neabsolvoval celú štandardnú dĺžku štúdia. Pod neúspešným ukončením rozumieme ukončenie bez úspešnej obhajoby dizertačnej práce, pričom študent absolvoval celú štandardnú dĺžku štúdia.

5.2. Zmena formy doktorandského štúdia

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

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

5.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 5c Menný zoznam ukončených doktorandov v roku 2025 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
MSc. Arif Hussain	interné štúdium hradené z iných zdrojov	2 / 2022	8 / 2025	2675 elektrotechnika	Mgr. Enric Pardo PhD., Elektrotechnický ústav SAV, v. v. i.	Fakulta elektrotechniky a informatiky STU

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

Tabuľka 5d Menný zoznam ukončených doktorandov v roku 2025 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

5.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 5e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2025 (obhajoba leto 2025)	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
1	1	0	0	0

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

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

5.6. Medzinárodné doktorandské štúdium

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

Cotutelle	Co-direction	Iné	Zahraniční doktorandi štátne občianstvo/počet
0	0	0	IND/3, IRN/2, PAK/2, PSE/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)
elektrotechnika	2675	Elektronika a fotonika	Fakulta elektrotechniky a informatiky STU
elektrotechnika	2675	Fyzikálne inžinierstvo	Fakulta elektrotechniky a informatiky STU
fyzika	1160	Fyzika kondenzovaných látok a akustika	Fakulta matematiky, fyziky a informatiky UK

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

Tabuľka 5h Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií pre doktorandské štúdium	**Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt**	**Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnosť alebo vyšší kvalifikačný stupeň**
RNDr. Vladimír Cambel, DrSc. (elektronika)	doc. Ing. Fedor Gömöry, DrSc. (Elektrotechnická fakulta ŽU)	MSc. Arif Hussain, PhD. (IIb)
doc. RNDr. Edmund Dobročka, CSc. (fyzikálne inžinierstvo)	doc. Ing. Fedor Gömöry, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	MSc. Shima Sousani, PhD (IIb)
doc. Ing. Fedor Gömöry, DrSc. (fyzikálne inžinierstvo)	Ing. Milan Ťapajna, PhD. (Fakulta elektrotechniky a informatiky STU)	MSc. Arif Hussain, PhD. (PhD., Fakulta elektrotechniky a informatiky STU)
RNDr. Dagmar Gregušová, DrSc. (elektrotechnika)		MSc. Shima Sousani, PhD (PhD., Fakulta elektrotechniky a informatiky STU)
RNDr. Dagmar Gregušová, DrSc. (elektronika)		
Dr. rer. nat. Martin Hulman (fyzika)		
Ing. Ján Kuzmík, DrSc. (teoretická elektrotechnika)		
Ing. Ján Kuzmík, DrSc. (elektronika)		
doc. RNDr. Martin Moško, DrSc. (fyzika kondenzovaných látok a akustika)		
doc. RNDr. Martin Moško, DrSc. (chemická fyzika)		
doc. RNDr. Martin Moško, DrSc. (teoretická elektrotechnika)		
doc. RNDr. Martin Moško, DrSc. (Biofyzika a fyzika nanoštruktúr, PrF, Ostravská Univerzita)		
Mgr. Enric Pardo, PhD. (fyzikálne inžinierstvo)		
Mgr. Michaela Sojková, PhD. (elektrotechnika)		
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 2025

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	5	0	10	0
Celkový počet hodín v r. 2025	169	0	170	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**	7
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	12
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	11
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	17
5.	**Počet oponovaných dizertačných a habilitačných prác**	8
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	7
7.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác**	2
8.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác**	11
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 i domácich odborníkov, aby predstavili výsledky v rôznych oblastiach výskumu.
V tomto roku odzneli prednášky:

- prof. Tuo-Hung Hou z univerzity NYCU, Taiwan
- prof. Dr. Tuo-Hung (Alex) Hou z National Yang Ming Chiao Tung University (NYCU), Taiwan,
- Dr. Gábora Méhesa z Waseda Univerzity, Japonsko
- prof. Romana Martoňáka z *FMFI UK*

Ústav spolupracuje na výchove mladých elektrotechnikov na SPŠE Adlera:

- Pracovníci B. Zaťko a M. Varga viedli Individuálny projekt študentiov F. Satka a P. Horváta "UV a RTG detektory pre pokročilé zobrazovanie"
- J. Kováč a L. Frolek viedli 5 študentov v rámci projektu BRAINEST
- O. Pohorelec, M. Ťapajna, F. Egyenes, D. Gregušová, A. Kozak, I. Kozak viedli prax stredoškolákov

Na FEI STU viedol F. Egyenes ŠVK (Pospechová, 2. roč.)

Pre firmu Semicron-Danfoss viedli A. Rosová, E. Dobročka Školenie metód charakterizácie materiálov (XRD, XRR, SEM, EBL, EDS, WDS, XPS, UPS).

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

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

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

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

Názov univerzity/vysokej školy a fakulty: Fakulta matematiky, fyziky a informatiky UK
Oblasť spolupráce: Výchova študentov, spoločná príprava a riešenie projektov a aplikačný ch riešení
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 1992
Zhodnotenie: Výsledkom spolupráce sú spoločné projekty, publikácie a PhD študenti.

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

6.1.2. Spoločné pracoviská s inými organizáciami SAV

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

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

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

6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

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

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

Názov projektu: CERBERUS – Farebné centrá v diamante – korelácia medzi atómovou štruktúrou a optoelektronickými vlastnosťami
Agentúra: APVV
číslo projektu: 23-0361
Spolupracujúce inštitúcie: Materiálovotechnologická fakulta STU Trnava
Koordinátor projektu: ElÚ SAV
Začiatok spolupráce: 2024
Koniec spolupráce: 2027
Zhodnotenie:

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

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

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

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

Agentúra: APVV
číslo projektu: 21-0231
Spolupracujúce inštitúcie: Ústav elektroniky a fotoniky FEI STU
Koordinátor projektu: ElÚ SAV
Začiatok spolupráce: 2022
Koniec spolupráce: 2026
Zhodnotenie:

Názov projektu: Moderné elektronické súčiastky na báze ultraširokopásmového polovodiča Ga2O3 pre budúce vysokonapäťové aplikácie
Agentúra: APVV
číslo projektu: 20-0220
Spolupracujúce inštitúcie: Ústav elektroniky a fotoniky FEI STU, Materiálovotechnologická fakulta STU
Koordinátor projektu: ElÚ SAV
Začiatok spolupráce: 2021
Koniec spolupráce: 2025
Zhodnotenie:

Názov projektu: 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
Zhodnotenie:

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

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

Názov aktivity: Slovenské čipové kompetenčné centrum (SK CCC)

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

Oblasť spolupráce: Rozvoj ekosystému slovenského polovodičového priemyslu zameraného na výrobu back-end polovodičov, a tým posilnenie polovodičového priemyslu v Európe v súlade s prioritami a cieľmi iniciatívy CHIPS ACT a iniciatívy Chips for Europe.

Sídlo spoločného pracoviska (ak je vytvorené): FEI STU

Začiatok spolupráce: apríl 2025

Zhodnotenie: V úvodnom roku existencie centra bola začatá implementácia EÚ projektu BETEC2 financovaného z programu Chips JU ako aj národného projektu ŠF financovaného z MŠ VVM SR. V spolupráci s koordinátom (SK Chips) sme pripravili katalóg činností pre poskytovanie služieb v oblasti zmluvného výskumu zameraného pre akademických a priemyselných zákazníkov a vzdelávania zameraného na stredné školy.

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	11	tlač	1	TV	0
rozhlas	0	internet	1	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	0				

7.2. Vedecko-organizačná činnosť

Tabuľka 7b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
IWORID 2025	medzinárodná	Aula FIIT STU Bratislava	6.7.-10.7.2025	250
IEEE NAP 2025 – 15. ročník IEEE Medzinárodná konferencia IEEE o nanomateriáloch ich aplikáciách a vlastnostiach	medzinárodná	Hotel Crowne Plaza v Bratislave, Slovensko	7.9.-12.9.2025	-

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
Novák Jozef	0	0	1
Ťapajna Milan	1	0	0
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. 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)

Ing. Jozef Osvald, DrSc.

Materials Science in Semiconductor Processing (funkcia: člen)

Mgr. Enric Pardo, PhD.

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

Ing. Milan Ťapajna, PhD.

Semiconductor Science and Technology (funkcia: člen)

Ing. Jaroslav Tóbik, PhD.

Scientific Reports (funkcia: člen)

7.6. Činnosť v domácich vedeckých spoločnostiach

Mgr. Michaela Sojková, PhD.

Slovenská fyzikálna spoločnosť (funkcia: členka výboru)

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

Workshop o (U)WBG polovodičových materiáloch a súčiastkách a HRTEM školenie v Budapešti
Kolegovia zo skupiny zaoberajúcej sa výskumom oxidu galitého (Ga_2O_3) vedenej Dr. Filipom Gucmannom v spolupráci s HUN-REN Centrom pre výskum energie a Inštitútom mikroelektroniky a fotoniky z výskumnej siete Łukasiewicz usporiadali dvojdňový workshop o WBG/UWBG polovodičových materiáloch a súčiastkách v Budapešti, za účelom zdieľania výsledkov dosiahnutých počas realizácie projektu CUBES, ktorý je financovaný Medzinárodným višehradským fondom. Spolu s workshopom sa konalo intenzívne školenie pre študentov a začínajúcich výskumníkov zamerané na vysoko-rozlíšenú transmisnú elektronovú mikroskopiu, s cieľom budovania odbornej zdatnosti v polovodičovom výskume v rámci vytvoreného V4 kompetenčného klastra.
Pre viac informácií navštívte webovú stránku projektu www.cubes.sav.sk.

ElÚ SAV spoluorganizoval seminar "Inovácie v tepelnom manažmente pre modernú výkonovú elektroniku," ktorý sa uskotočnil dňa 19. februára 2025 sa na ElÚ SAV a bol organizovaný v spolupráci so spoločnosťou TechSim, hlavným partnerom SIEMENS pre strednú a východnú Európu. Cieľom podujatia bolo predstaviť najnovšie technológie a prístupy v oblasti tepelného manažmentu výkonových modulov a vytvoriť priestor pre výmenu skúseností medzi akademickými a

priemyselnými odborníkmi. Seminára sa zúčastnili zástupcovia renomovaných spoločností ako Semikron-Danfoss, Delta Electronics, EVPÚ, Powertec a Siemens, ako aj akademickí partneri z Fakulty elektrotechniky a informatiky STU (FEI STU) a Technickej univerzity v Košiciach (TUKE). Táto rozmanitá účasť zdôraznila význam prepájania vedy a priemyslu pre rozvoj inovatívnych riešení vo výkonovej elektronike. Program podujatia ponúkol množstvo odborných prezentácií. Predstavitelia spoločností TechSim a Siemens – Mike Fletcher, David Tompa a Juraj Čechovič – priblížili využitie testovania výkonového cyklovania (PCT) pri návrhu moderných elektronických systémov. Podrobne predstavili aj PCT systém od spoločnosti Siemens a jeho praktické využitie na zariadení inštalovanom na ElÚ SAV, spolu s pokročilými tepelnými simuláciami pre modelovanie odvodu tepla vo výkonových moduloch.

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

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

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

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

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

Názov expertízy: Porota
Adresát expertízy: "Študentská osobnosť Slovenska"
Spracoval: doc. Ing. Fedor Gömöry, DrSc.
Stručný opis: člen komisie pre oblasť Elektrotechnika

Názov expertízy: člen prac. skupiny pre posúdenie habilitačného konania a inauguračného konania elektronika
Adresát expertízy: FEI STU
Spracoval: Ing. Filip Gucmann, PhD.

Názov expertízy: člen prac. skupiny STU – EUBA pre posudzovanie spoločného ŠP 2. stupňa Elektronické inžinierstvo a medzinárodné podnikanie
Adresát expertízy: FEI STU
Spracoval: Ing. Filip Gucmann, PhD.

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

doc. Ing. Fedor Gömöry, DrSc.

- Komisia pre stratégiu rozvoja SAV (člen)
- Komisia SAV pre hodnotenie vedy (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)

Mgr. Michaela Sojková, PhD.

- Komisia SAV pre rovnosť (člen)

RNDr. Marianna Španková, PhD

- Etická komisia SAV (člen)

Ing. Milan Ťapajna, PhD.

- Komisia SAV pre vyhodnocovanie medzinárodných projektov (člen)

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)

Mgr. Enric Pardo, PhD.

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

Ing. Alica Rosová, CSc.

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

Mgr. Michaela Sojková, PhD.

- Komisia elektrotechnológie a materiály (člen)

Ing. Milan Ťapajna, PhD.

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

Ing. Jaroslav Tóbik, PhD.

- Komisia fyzika kondenzovaných látok a akustika (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

ElÚ SAV dodržiava pri nábore výskumných pracovníkov zásady ustanovené v Kódexe správania pre nábor výskumných pracovníkov, aby výberový proces bol transparentný a otvorený.
Na webstránke ústavu sa nachádza dokument Posudzovanie výskumných pracovníkov, nábor a postup – HRS4R (Zásady náboru a výberu zamestnancov vo verejnej výskumnej inštitúcii SAV). Dokument je určený výberovým komisiám, prípadne všetkým, ktorí sa priamo podieľajú na vedení prijímacích pohovorov, a týka sa náboru všetkých výskumných pracovníkov a ostatných zamestnancov. Voľné pozície, ako sú PhD a postdoktorand pozície, inzeruje na rôznych platformách (napríklad Euraxess, profesia.sk) v slovenskom aj anglickom jazyku. Inzeráty obsahujú podrobný opis požadovaných znalostí a schopností, pracovných podmienok a možností kariérneho rozvoja. Výberový proces prebieha v niekoľkých kolách. Po prijatí žiadostí uchádzačov sa uskutočňuje predvýber. Kandidáti, ktorí postúpia do užšieho výberu, sú pozvaní na pohovor pred výberovou komisiou. Postup pri zamestnávaní pracovníkov (postdoktorandská pozície) sa riadi Smernicou, pričom zloženie prijímacej komisie určuje riaditeľ ústavu. V roku 2025 bola komisia vymenovaná 7x, pričom rozhodla o prijatí celkovo 4 postdoktorandov a 2 postoktorandiek a 1 inžinierskeho pracovníka.
Uveďte stručnú charakteristiku a hodnotenie aktivít v oblasti HRS4R.

10.2. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

Na ElÚ SAV 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 2025 sa Komisia nezaoberala žiadnymi podnetmi.

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	10	7	3	2	0	2
2. Projekty APVV	14	12	2	5	3	2
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	16	14	2	1	1	0
4. Projekty SASPRO	0	0	0	0	0	0
5. Projekty IMPULZ	1	1	0	0	0	0
6. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	8	5	3	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
1a. Projekty Horizont 2020	0	0	0	3	3	0
1b. Projekty Horizont Európa	0	0	0	2	2	0
2. Projekty ERA.NET, ESA, JRP	1	1	0	2	2	0
3. Projekty COST	0	0	0	2	2	0
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	1	1	0	2	2	0
5. Projekty v rámci medzivládnych dohôd	1	1	0	0	0	0
6. Projekty Mobility, Mobility Basic, Open Mobility a Mobility Visit	1	1	0	0	0	0
7. Bilaterálne projekty ostatné	3	3	0	0	0	0
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	0	0	0	0	0	0
9. Podpora excelentného výskumu: SAS-UPJŠ ERC Visiting Fellowship Grants, Seal of Excelence, TANDEM	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

Kolektívna zmluva na roky 2024-25 sa zmenila nasledovne:
V septembri 2025 došlo k valorizácii miezd vedeckých pracovníkov o 7%. V máji 2025 bola všetkým zamestnancom vyplatená jednorazová odmena v sume 800 Eur (podľa ustanoveného pracovného času)
V roku 2025 ústav preplácal športovú činnosť detí zamestnancov v zmysle platného zákona.

Uveďte stručné, základné informácie k problematike.

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

11.1. Správna rada - zloženie a základná informácia o činnosti

V roku 2025 pracovala Správna rada ElÚ SAV v nasledovnom zložení:
RNDr. Vladimír Cambel, DrSc.
Ing. Jozef Fabian, CSc.
Ing. Ján Fedor, PhD
RNDr. Marianna Španková, PhD.
Ing. Milan Ťapajna, PhD.

Správna rada ElÚ SAV zasadala v roku 2025 celkovo 3x.
Správna rada zasadala k schvaľovaniu Správy o činnosti ElÚ SAV, vstupu ElÚ SAV do ZZPO Brainest a k nákupom investičných zariadení. Podklady zaslala na schálenie Dozornej rade ElÚ SAV, resp. Predsedníctvu SAV.

11.2. Vedecká rada - zloženie a základná informácia o činnosti

V roku 2025 pracovala Vedecká rada ElÚ SAV v nasledovnom zložení:
Predsedníčka: RNDr. Dagmar Gregušová, DrSc.
Interní členovia:
Ing. Filip Gucmann, PhD. – podpredseda
Ing. Boris Hudec, PhD. – tajomník
doc. Ing. Fedor Gömöry, DrSc
Dr. rer. nat. Martin Hulman
Mgr. Enric Pardo, PhD.
Mgr. Michaela Sojková, PhD.
Externí členovia:
doc. Ing. Peter Bokes, PhD.
Ing. Roman Lupták, PhD.
doc. Ing. Miroslav Mikolášek, PhD.
doc. RNDr. Tomáš Plecenik, PhD.

Vedecká rada na svojich stretnutiach sa zaoberala aktuálnymi problémami, týkajúcimi sa návrhov APVV projektov, pravidelným hodnotením aktivity doktorandov, hodnotením jednotlivcov a tiež návrhmi veľkých investičných nákupov. Venovala sa aj novým typom projektov hlavne problematikou SK Chip, Brainest. V spolupráci s vedením ústavu riešila problematiku plnenia výkonnostnej zmluvy. Podieľala sa na aktualizácii Akčného plánu ústavu. Členovia VR sa

zúčastňovali výberových konaní na obsadzovanie miest postdoktorandov a nových pracovníkov. VR sa podieľala na vypracovaní dokumentu pre Advisory Board. Zorganizovala spolu so Správnou radou stretnutia Akademickej obce pri výbere kandidáta na funkciu riaditeľa.

Vedecká rada ElÚ SAV zasadala v roku 2025 celkovo 5x + 1x pri peíležitosti ročného hodnotenia práce doktorandov, 3x zasadnutie akademickej obce.
Uveďte stručné, základné informácie k problematike.

11.3. Dozorná rada - zloženie a základná informácia o činnosti

Dozorná rada Elektrotechnického ústavu SAV, v. v. i., bola zriadená v zmysle zákona
č. 243/2017 Z. z. o verejnej výskumnej inštitúcii a o zmene a doplnení niektorých zákonov.
Dozorná rada pracovala v roku 2025 v tomto zložení:
· prof. RNDr. Pavol Samuely, DrSc., predseda DR
· prof. Ing. Viera Stopjaková, PhD.
· Ing. Romana Jurkiewiczová

Členovia dozornej rady boli menovaní na obdobie dvoch rokov.
Činnosť dozornej rady v roku 2025:
1. 21. 5. 2025 DR na riadnom zasadnutí:
· schválila účtovnú závierku Elektrotechnického ústavu SAV, v. v. i., za rok 2024,
· zobrala na vedomie informácie o stave ústavu, plánovaných činnostiach na rok 2025 a dlhodobých plánoch ústavu v projektových a investičných oblastiach.

2. 26. 6. 2025 DR vydala súhlas so zámerom Elektrotechnického ústavu SAV, v. v. i., vstúpiť do záujmového združenia právnických osôb BRAINEST.
3. 30. 6. 2025 DR prerokovala výročnú správu Elektrotechnického ústavu SAV, v. v. i., za rok 2024.
4. 10. 12. 2025 DR vydala súhlas so zámerom nadobudnutia investičného majetku – zariadení určených na zabezpečenie realizácie projektov financovaných v rámci Plánu obnovy a odolnosti SR, s predpokladanou hodnotou približne 892 000 € vrátane DPH.
5. 23. 12. 2025 DR na riadnom zasadnutí:
· zobrala na vedomie informácie o stave ústavu, plánovaných činnostiach na rok 2026 a dlhodobých plánoch ústavu v projektových a investičných oblastiach.

Zo všetkých zasadnutí dozornej rady boli vyhotovené zápisnice a zaslané riaditeľovi ústavu.

11.4. Informácie o štrukturálnych a organizačných zmenách v organizácii

Žiadne
Uveďte stručné, základné informácie k problematike.

11.5. Zmeny zakladacej listiny, vnútorných predpisov organizácie alebo zakladateľa

Žiadne
Uveďte stručné, základné informácie k problematike.

12. Činnosť knižnično-informačného pracoviska organizácie

12.1. Knižničný fond

Tabuľka 12a Knižničný fond

Knižničné jednotky spolu		2189
z toho	knihy a zviazané periodiká	1221
	audiovizuálne dokumenty	
	elektronické dokumenty (vrátane digitálnych)	146
	mikroformy	
	iné špeciálne dokumenty - dizertácie, výskumné správy	822
	Rukopisy, vzácne tlače	
Počet titulov dochádzajúcich periodík		1
z toho zahraničné periodiká		
Ročný prírastok knižničných jednotiek		
v tom	kúpou	
	darom	1
	výmenou	
	bezodplatným prevodom	
	náhradou	
Úbytky knižničných jednotiek		
Knižničné jednotky spracované automatizovane		1221

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

Počet vypracovaných rešerší	342

12.3. Používatelia

Tabuľka 12c Používatelia

Registrovaní používatelia	128
Návštevníci knižnice spolu (bez návštevníkov podujatí)	

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 €	0

12.5. Iné informácie o knižničnej činnosti

13. Nadácie a fondy pri organizácii SAV

14. Realizácia Koncepcie dlhodobého rozvoja a Akčného plánu organizácie

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

Medzinárodný panel ElÚ SAV skonštatoval progres 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 postupuje v zmysle svojho akčného plánu, čo bolo vyzdvihnuté aj členmi P SAV na spoločnom zasadnutí vo februári 2025.

14.3. Aktualizácia Akčného plánu organizácie v roku 2025

Akčný plán ElÚ SAV bol aktualizovaný na základe pripomienok nášho AB na začiatku r. 2025.
Akčný plán sme aktualizovali aj vzhľadom na podpísanú Výkonnostnú zmluvu s PSAV. Podľa tejto zmluvy budú novým spôsobom vypočítavané odmeny za publikovanie – výška odmeny významne závisí od kvality publikácie, teda od kvartilu a impaktu časopisu, v ktorom vyšla.
Je potrebné uviesť, že napriek uvedeným opatreniam v roku 2025 pokračoval nežiadúci pokles CC publikácií. Toto bolo spôsobené najmä snahou našich pracovníkov a publikovanie v kvalitnejších časopisoch (IF > 6), riešením náročných aplikačných projektov (Horizont Európa, EDF, SK-TW) ako aj nutnou odstávkou MOCVD laboratória z dôvodu rekonštrukcie vzduchotechniky. Na zasadnutí komisie PSAV pre plnenia výkonnostných zmlúv v decembri 2025 preto vedenie žiadalo o prehodnotenie výkonnostných parametrov, čo však bolo zamietnuté s tým, že publikácie nesmú klesnúť pod pôvodné referenčné hodnoty a musíme vykázať zvýšené plnenie iných parametrov. Vedenie spolu s VR ElÚ SAV následne diskutovalo možné stratégie na zvýšenie počtu publikácií, pričom boli identifikované krátkodobé aj dlhodobé opatrenia, ktoré bude vedenie v roku 2026 implementovať.

15. Iné významné činnosti organizácie

Otvorenie Slovenského čipového kompetenčného centra

ElÚ SAV je spoluzakladateľom Čipové kompetenčné centrum (SK CCC). Slávnostné otvorenie centra sa uskutočnilo 14.11.2025 na Fakulte elektrotechniky a informatiky Slovenskej technickej univerzity (FEI STU) v Bratislave za účasti štátneho tajomníka Ministerstva školstva, výskumu, vývoja a mládeže Jána Hrinka a štátneho tajomníka Ministerstva hospodárstva Vladimíra Šimoňáka. Slovenskú akadémiu vied aj ElÚ SAV na podujatí zastupoval Milan Ťapajna. Okrem FEI STU a ElÚ SAV je členom centra aj Centrum vedecko-technických informácií SR.

Hlavným cieľom centra je vybudovať konkurencieschopný ekosystém pre slovenský polovodičový priemysel so zameraním na pokročilé technológie puzdrenia čipov a výkonových modulov. Ako pri otvorení uviedol riaditeľ SK CCC Michal Mičjan, centrum bude poskytovať odbornú propagáciu, podporovať vzdelávanie, rozvoj podnikania a sprostredkovávať prístup k európskej infraštruktúre pre firmy, výskumné organizácie i univerzity.

Vznik kompetenčného centra predstavuje významnú príležitosť pre rozšírenie výskumu a inovácií v oblasti nových polovodičových technológií pre výkonovú elektroniku, pre výchovu novej generácie odborníkov a pre zintenzívnenie transferu technológií. Vďaka prebiehajúcej spolupráci s taiwanským ITRI disponuje centrum už dnes modernou infraštruktúrou na testovanie spoľahlivosti výkonových modulov. To prináša jedinečné možnosti nielen pre vzdelávanie špecialistov priamo pre potreby slovenského polovodičového priemyslu, ale aj pre rozšírenie spolupráce s priemyselnými partnermi.

Ohlasy:
https://spravy.stvr.sk/2025/11/slovensko-ma-nove-cipove-kompetencne-centrum-zameria-sa-na-vyskum-a-vzdelavanie-v-polovodicoch/
https://www.sme.sk/domov/c/slovensko-otvorilo-vlastne-cipove-kompetencne-centrum
https://zive.aktuality.sk/clanok/gDlTcND/otvorili-slovenske-cipove-centrum-na-co-ma-sluzit/
https://slord.sk/aktualita/slovensko-otvorilo-narodne-cipove-kompetencne-centrum/
https://tyzdenvedy.sk/podujatia/slavnostne-otvorenie-slovenskeho-cipoveho-kompetencneho-centra/
https://vedanadosah.cvtisr.sk/tvt/tyzden-vedy-a-techniky-2025-priniesol-otvorenie-slovenskeho-cipoveho-kompetencneho-centra/
https://hnonline.sk/finweb/ekonomika/96245597-slovensko-otvorilo-svoje-vlastne-cipove-

kompetencne-centrum?showPhotoGallery
https://sita.sk/vtechnologiach/slovensko-nechce-zaostavat-v-oblasti-polovodicov-otvorilo-cipove-kompetencne-centrum/

Hosťovanie delegácie z Litvy

Dňa 28. októbra 2025 privítal Elektrotechnický ústav SAV, v.v.i. (ElÚ SAV) vzácnu návštevu z Litvy, vedenú pani Wang Hsueh-Hong, šéfkou Taiwanskej reprezentatívnej kancelárie v Litve. Medzi ďalšími hosťami boli aj významní predstavitelia litovskej akademickej komunity – Dr. Aidas Matijosius, dekan Fakulty fyziky Vilniuskej univerzity, Dr. Arturas Medeisis, dekan Fakulty elektrotechniky Vilniusu technickej univerzity, Dr. Mindaugas Zilys, dekan Fakulty elektrotechniky a elektroniky Kaunaskej technickej univerzity, a Dr. Ramunas Skaudzius, riaditeľ Centra pre fyzikálne vedy a technológie.

Hlavným cieľom návštevy bolo najmä poskytnúť predstaviteľom litovských univerzít naše skúsenosti pri implementácii bilaterálneho projektu SK-TW, ktorý sa realizuje v spolupráci medzi taiwanským Výskumným inštitútom priemyselných technológií (Industrial Technology Research Institute – ITRI), ElÚ SAV a Slovenskou technickou univerzitou v Bratislave (STU). Stretnutie zároveň predstavovalo výnimočnú príležitosť na posilnenie vedecko-technickej spolupráce medzi Slovenskom a Litvou v oblasti pokročilých výkonových elektronických súčiastok.

Založenie ZZPO BRAINEST

Spolu s Bratislavským samosprávnym krajom (BSK) a Slovenskou technickou univerzitou (STU) je Elektrotechnický ústav SAV spoluzakladateľom záujmového združenia právnických osôb (ZZPO) BRAINEST, ktoré oficiálne vzniklo 14.8.2025. Cieľom združenia je zvýšiť inovačný potenciál BSK vďaka spolupráce Stredných priemyselných škôl (elektrotechnických) s STU a SAV a podpory transferu technológií na STU a SAV.
Konkrétne aktivity v roku 2025:

- Spolupráca ElÚ SAV so SPŠE Adlera a SPŠE Hálova na projektovom vyučovaní – Individuálne projekty študentov SŠ na ElÚ SAV
- Participácia zamestnancov ElÚ SAV na stretnutiach ohľadom transferu technológií

organizovaných BSK (prednášky, ukážky úspešných príbehov,...).

V r. 2025 sa združenie úspešne uchádzalo o implementáciu projektu HUBSBURG v rámci programu INTERREG. Cieľom projektu je spolupráca ElÚ SAV na výučbe odborných predmetov stredných odborných škôl SPŠE Adlera a SPŠE Hálova. Od septembra 2025 sa v rámci projektu ElÚ SAV podieľa na výučbe SPŠE Adlera v predmete Projektovanie v odbore (6 študentov), ktorí v rámci predmetu absolvujú individuálne projekty v rozsahu 2 hodiny týždenne.
Na základe vzájomných rokovaní BSK, ElÚ SAV a PSAV sa dňa 12.9.2025 riadnym členom združenia stala aj SAV (ÚSAV).

Otvorenie Vedeckej kaviarne na ElÚ SAV

Dňa 18. februára 2025 sme na ElÚ SAV slávnostne otvorili Vedeckú kaviareň – nový priestor, ktorý spojí vedu, kolegialitu a dobrú kávu. Táto moderná spoločenská miestnosť, slúžiaca aj ako kuchynka, bola vytvorená s cieľom spríjemniť každodenný pracovný život našich zamestnancov a podporiť neformálnu komunikáciu medzi kolegami. Prečo Vedecká kaviareň? Vnímame, že mnohé skvelé nápady sa nerodia len v laboratóriách či za počítačom, ale aj pri šálke kávy. Tento priestor preto ponúka ideálne prostredie na neformálne stretnutia medzi oddeleniami, diskusie o výskumných výzvach či pracovné stretnutia s domácimi aj zahraničnými hosťami. Samozrejme, bude tiež slúžiť na príjemnú prestávku počas dňa či pokojný obed v priateľskej atmosfére. Zriadenie Vedeckej kaviarne bolo plne financované z Výkonnostnej zmluvy SAV, konkrétne z prostriedkov určených na investície do budov, ktorej účelom je práve aj zlepšenie podmienok práce vedeckých pracovníkov.

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

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 20.1.2026

RNDr. Dagmar Gregušová, DrSc.
predseda vedeckej rady

Výročnú správu o činnosti organizácie za rok 2025 vypracoval(i):

RNDr. Vladimír Cambel, DrSc., 02/ 5922 2552, 2555

Bratislava, 29.1.2026

RNDr. Vladimír Cambel, DrSc.
riaditeľ organizácie

PRÍLOHY k časti A

Príloha A-1

Zoznam zamestnancov a doktorandov organizácie k 31.12.2025

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	0.58
5.	Ing. Pavol Kováč, DrSc.	100	1.00
6.	Ing. Ján Kuzmík, DrSc.	100	1.00
7.	doc. RNDr. Martin Moško, DrSc.	50	0.50
8.	doc. Ing. Viera Skákalová, DrSc.	40	0.65
Samostatní vedeckí pracovníci			
1.	Ing. Michal Blaho, PhD.	100	1.00
2.	doc. RNDr. Edmund Dobročka, CSc.	80	0.80
3.	Ing. Ján Fedor, PhD	100	1.00
4.	Mgr. Juraj Feilhauer, PhD.	100	1.00
5.	Ing. Filip Gucmann, PhD.	100	1.00
6.	RNDr. Štefan Haščík, PhD.	60	0.60
7.	Ing. Boris Hudec, PhD.	100	1.00
8.	Dr. rer. nat. Martin Hulman	100	1.00
9.	Ing. Tibor Izsák, PhD.	100	1.00
10.	Mgr. Peter Kotrusz, PhD.	100	1.00
11.	Mgr. Ján Kováč, PhD.	100	1.00
12.	Mgr. Andrii Kozak, PhD.	100	1.00
13.	RNDr. Michal Kučera, PhD	50	0.50
14.	Mgr. Agáta Laurenčíková, PhD.	100	0.37
15.	RNDr. Antónia Mošková, CSc.	100	1.00
16.	Kimmo Aleksi Mustonen	50	0.17
17.	Mgr. Enric Pardo, PhD.	100	1.00
18.	Ing. Marián Precner, PhD.	100	1.00
19.	RNDr. Lenka Pribusová Slušná, PhD.	100	1.00

20.	Ing. Alica Rosová, CSc.	100	1.00
21.	Mgr. Eugen Seiler, PhD	100	1.00
22.	Mgr. Michaela Sojková, PhD.	100	1.00
23.	Mgr. Mykola Soloviov, PhD.	100	1.00
24.	Ing. Roman Stoklas, PhD.	100	1.00
25.	Ing. Ján Šoltýs, PhD	100	1.00
26.	Ing. Ján Šouc, CSc.	80	0.80
27.	RNDr. Marianna Španková, PhD	100	1.00
28.	Ing. Milan Ťapajna, PhD.	100	1.00
29.	Ing. Jaroslav Tóbik, PhD.	100	1.00
30.	Ing. Gabriel Vanko, PhD.	100	0.00
31.	Ing. Marian Varga, PhD.	100	1.00
32.	Ing. Zdenko Zápražný, PhD.	100	1.00
33.	Mgr. Bohumír Zaťko, PhD	100	1.00
Vedeckí pracovníci			
1.	Ing. Marek Búran, PhD.	100	0.33
2.	MSc. Anang Dadhich, PhD.	100	1.00
3.	Mgr. Fridrich Egyenes, PhD.	100	1.00
4.	Ing. Jozef Fabian, CSc	100	1.00
5.	Ing. Norbert Gál, PhD.	100	0.00
6.	Ing. Ladislav Hrubčín, CSc.	60	0.55
7.	MSc. Arif Hussain, PhD.	100	1.00
8.	Mgr. Peter Hutár, PhD.	40	0.35
9.	Ing.Mgr. Marián Janík, PhD.	100	1.00
10.	RNDr. Tetiana Kalmykova, PhD.	100	1.00
11.	Ing. Milan Kapolka, PhD.	40	0.40
12.	Iryna Kozak, PhD.	100	1.00
13.	Sergei Krylov, PhD.	100	1.00
14.	Ing. Martin Kucharovič, PhD.	100	1.00
15.	Ing. Tomáš Kujovič, PhD.	100	1.00
16.	MSc. Satish Kumar, PhD.	100	0.75
17.	Mgr. Peter Nádaždy, PhD.	50	0.50
18.	Mgr. Michal Patrnčiak, PhD.	100	0.25
19.	MSc. Helle-Mai Piirsoo, PhD.	100	0.54
20.	Mgr. Igor Píš, PhD.	80	0.13

21.	Ing. Ondrej Pohorelec, PhD.	100	1.00
22.	Ing. Rastislav Ries, PhD.	100	0.00
23.	Ing. Michal Sobota, PhD.	100	1.00
24.	MSc. Shima Sousani, PhD	100	0.50
25.	Ing. Tomáš Ščepka, PhD.	100	1.00
26.	Ing. Marcel Talacko, PhD.	100	1.00
27.	Mgr. Iuliia Vetrova, PhD.	100	1.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr.Phil. Faizan Ahmad	10	0.10
2.	Ing. Michal Bennár	100	0.40
3.	Ing. Dušan Berek	100	1.00
4.	Bc. Volodymyr Buranych	100	0.75
5.	Ing. Natalia Kamila Calvo	30	0.23
6.	Mohammad Dehghan	10	0.09
7.	Ing. Peter Eliáš	100	1.00
8.	Ing. Lubomír Frolek	100	1.00
9.	Ing. Kristína Gažová	10	0.03
10.	Ing. Stanislav Hasenöhrl	100	1.00
11.	Ing. Fedor Hrubišák	100	1.00
12.	Ing. Imrich Hušek	60	0.60
13.	RNDr. Kristína Hušeková	80	0.73
14.	MSc. Roshan Jeevan Chidambaram	10	0.08
15.	MTech. Hemendra Chouhan	10	0.10
16.	MSc. Javad Keshtar	100	0.23
17.	Ing. Eva Kováčová	100	1.00
18.	Ing. Timea Ema Krajčovičová	10	0.10
19.	Ing. Miriam Krettová	10	0.03
20.	Ing. Ivan Kundrata	100	0.92
21.	Ing. Tibor Melišek	60	0.60
22.	Ing. Iurii Murzin	100	0.75
23.	Mgr. Michal Pecz	100	0.40
24.	Ing. David Puškár	10	0.03
25.	Ing. Asad Shendi	10	0.03
26.	B.E. Sasi Gurukrishna Vadlamudi	10	0.08
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			

1.	Ing. Miriam Almášiová	86	0.86
2.	Mgr. Miroslava Blázyová	100	1.00
3.	PhDr. Anna Gömöryová	60	0.60
4.	Ing. Pavol Mozola	100	1.00
5.	Mgr. Vojtech Ogrodnik	40	0.40
6.	Mgr. Eva Stranovská	100	1.00
7.	Ing. Marta Zofcsáková	100	1.00
Odborní pracovníci ÚSV			
1.	Juraj Arbet	60	0.60
2.	Ján Dérer	40	0.40
3.	Michal Gerboc	100	1.00
4.	Iveta Grófova	100	1.00
5.	Martin Grujbár	100	1.00
6.	Diego Guglielmi De Bellis	50	0.13
7.	Ľubomír Kopera	80	0.80
8.	Peter Martiš	100	1.00
9.	Darina Ružičková	100	1.00
10.	Jana Ryzá	100	1.00
11.	Alena Seifertová	100	1.00
12.	Karol Schwarz	50	0.50
13.	Edita Sýkorová	50	0.50
14.	Edita Šimeková	100	1.00
15.	Stanislav Štefánik	100	1.00
16.	Juraj Tančár	50	0.50
17.	Iveta Tóthová	100	1.00
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
5.	Veronika Voleková	50	0.42

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	Ing. Karol Fröhlich, DrSc.	31.1.2025	0.20
2.	Ing. Jozef Osvald, DrSc.	30.6.2025	0.10
Samostatní vedeckí pracovníci			
1.	RNDr. Pavol Boháček, CSc.	30.6.2025	0.10
Vedeckí pracovníci			
1.	Mgr. Jana Hrdá, PhD.	30.11.2025	0.92
2.	RNDr. Katarína Neilinger, PhD.	27.11.2025	0.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Ing. Timotej Židiuljak	15.12.2025	0.03
Odborní pracovníci ÚSV			
1.	Bc. Matej Horský	31.8.2025	0.17

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Mgr. Faizan Ahmad	Fakulta elektrotechniky a informatiky STU	2675 elektrotechnika
2.	Ing. Michal Bennár	Fakulta elektrotechniky a informatiky STU	2675 elektrotechnika
3.	Ing. Natalia Kamila Calvo	Fakulta elektrotechniky a informatiky STU	2675 elektrotechnika
4.	Mohammad Dehghan	Fakulta elektrotechniky a informatiky STU	2675 elektrotechnika
5.	Ing. Kristína Gažová	Fakulta elektrotechniky a informatiky STU	2675 elektrotechnika
6.	MTech. Hemendra Chouhan	Fakulta elektrotechniky a informatiky STU	2675 elektrotechnika
7.	Ing. Timea Ema Krajčovičová	Fakulta elektrotechniky a informatiky STU	2675 elektrotechnika
8.	Ing. Miriam Krettová	Fakulta elektrotechniky a informatiky STU	2675 elektrotechnika
9.	Mgr. Michal Pecz	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
10.	Ing. David Puškár	Fakulta elektrotechniky a informatiky STU	2675 elektrotechnika
11.	MSc. Jeevan Chidambaram Roshan	Fakulta elektrotechniky a informatiky STU	2675 elektrotechnika
12.	Ing. Asad Shendi	Fakulta elektrotechniky a informatiky STU	2675 elektrotechnika
13.	Sasi Gurukrishna Vadlamudi	Fakulta elektrotechniky a informatiky STU	2675 elektrotechnika
Interní doktorandi hradení z iných zdrojov			
1.	Ing. Fedor Hrubišák	Fakulta elektrotechniky a	2675 elektrotechnika

		informatiky STU	
2.	MSc. Javad Keshtar	Fakulta elektrotechniky a informatiky STU	2675 elektrotechnika
Externí doktorandi			
organizácia nemá externých doktorandov			

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

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

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi
1.	doc. Ing. Jozef Novák, DrSc.
2.	Ing. Jozef Osvald, DrSc.

Príloha A-2

Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medzivládna dohoda

1.) Kombinácia fotodiód a scintilátorov pre detekciu ionizujúceho žiarenia *(Combination of photodiodes and scintillators for detection of ionizing radiation)*

Zodpovedný riešiteľ:	Milan Ťapajna
Trvanie projektu:	1.1.2025 / 31.12.2027
Evidenčné číslo projektu:	SAS-TUBITAK/JRP/2024/1107.C/COPS
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Turecko: 1
Čerpané financie:	-

Dosiahnuté výsledky:
Chouhan, H., Dobročka, E., Nádaždy, P., Ťapajna, M., Hušeková, K., Cora, I., Rosová, A., Mikolášek, M., Egyenes, F., Keshtkar, J., Hrubišák, F., Sobota, M., Šiffalovič, P., Gregušová, D., Pohorelec, O., Wosko, M., Paszkiewicz, R., and Gucmann, F.: Rotational domains and origin of improved crystal quality in heteroepitaxial (201) β-Ga_2O_3 films grown on vicinal substrates by MOCVD, J. Alloys Compounds 1044 (2025) 184481.

Programy: COST

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

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

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Ján Kuzmík
Trvanie projektu:	1.11.2021 / 30.10.2025
Evidenčné číslo projektu:	CA20116
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centre des Nanosciences et des Nanotechnologies, C2N-CNRS-UMR9001, Université Paris-Saclay, France
Počet spoluriešiteľských inštitúcií:	31 - Rakúsko: 1, Belgicko: 1, Bulharsko: 1, Bosna a Hercegovina: 1, Cyprus: 1, Česko: 1, Nemecko: 1, Dánsko: 1, Španielsko: 1, Estónsko: 1, Fínsko: 1, Veľká Británia: 1, Grécko: 1, Chorvátsko: 1, Maďarsko: 1, Švajčiarsko: 1, Írsko: 1, Izrael: 1, Taliansko: 1, Litva: 1, Luxembursko: 1, Lotyšsko: 1, Moldavsko: 1, Holandsko: 1, Nórsko: 1, Poľsko: 1, Portugalsko: 1, Rumunsko: 1, Srbsko: 1, Švédsko: 1, Turecko: 1
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 1125 €

Dosiahnuté výsledky:

Programy: International Visegrad Fund (IVF)

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

Zodpovedný riešiteľ:	Filip Gucmann
Trvanie projektu:	1.1.2024 / 1.6.2025
Evidenčné číslo projektu:	22320095
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	3 - Maďarsko: 2, Poľsko: 1
Čerpané financie:	-

Dosiahnuté výsledky:

Programy: Bilaterálne - iné

5.) Štúdium vlastností nových oxidov pod vplyvom krátkych pulzov vysokého napätia v cryo podmienkach *(Exploring the Properties of Novel Oxides by Short High-Voltage Pulses at Cryogenic Tempertatures)*

Zodpovedný riešiteľ:	Fridrich Egyenes
Trvanie projektu:	1.7.2025 / 30.6.2026
Evidenčné číslo projektu:	2025-03-15-004
Organizácia je koordinátorom projektu:	áno

Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Rakúsko: 1
Čerpané financie:	SAV: 1862 €

Dosiahnuté výsledky:

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: 24939 €

Dosiahnuté výsledky:
1.Han-Lin Wang, H.-L., Kumar, M.S., Chang, H.-X., Hulman, M., and Lin, J.Y.: Wide-potential, low-temperature supercapacitors enabled by dimethyl sulfoxide-based hybrid deep eutectic solvents, J. Taiwan Inst. Chem. Engn. 172 (2025) 106131.
2.Huang, Y.-T., Velmurugan, R., Huang, Z.-T., Sofer, Z., Hulman, M., and Lin, J.Y.: Electrodeposited cation-intercalated ?-MnO2 nanosheets on free-standing graphitic nanofibers for aqueous magnesium-ion supercapacitors, J. Energy Storage 131 (2025) 117571.

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

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

Dosiahnuté výsledky:

Programy: ERANET

8.) Ohmické kontakty pre efektívne PCSEL GaN diódy tvorené fotonickým kryštálom na báze oxidových materiálov *(Oxide-based photonic crystal ohmic contacts for efficient GaN-based PCSEL diodes)*

Zodpovedný riešiteľ:	Filip Gucmann
Trvanie projektu:	1.10.2025 / 30.9.2028
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Łukasiewicz Research Network - Institute of Microelectronics and Photonics
Počet spoluriešiteľských inštitúcií:	6 - Maďarsko: 1, Poľsko: 3, Slovensko: 2
Čerpané financie:	-
	Podpora medzinárodnej spolupráce z národných zdrojov: 10096 €

Dosiahnuté výsledky:

9.) 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:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	3 - Dánsko: 1, Slovensko: 1, Taiwan: 1
Čerpané financie:	-
	Podpora medzinárodnej spolupráce z národných zdrojov: 40385 €

Dosiahnuté výsledky:
T.-L. Chiang, et al.: Direct Atomic Layer Processing TiO2 RRAM Gas Sensor for Real-time All-RRAM Intelligent Gas Perception, In: Int. Electron Devices Meeting (IEDM) 2025, San Francisco, Dec. 2025

10.) Fototlač atomárnych vrstiev *(Photo-Atomic Layer Printing)*

Zodpovedný riešiteľ:	Boris Hudec
Trvanie projektu:	1.5.2025 / 30.4.2028
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	nie
Koordinátor:	AALTO KORKEAKOULUSAATIO SR (FI)
Počet spoluriešiteľských inštitúcií:	5 - Belgicko: 1, Dánsko: 1, Fínsko: 1, Slovensko: 1, Švédsko: 1
Čerpané financie:	-
	Podpora medzinárodnej spolupráce z národných zdrojov: 26923 €

Dosiahnuté výsledky:

Programy: Horizont 2020

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

Zodpovedný riešiteľ:	Fedor Gömöry
Trvanie projektu:	1.1.2014 / 31.12.2025
Evidenčné číslo projektu:	H2020-101052200
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Max-Planck Gesellschaft zur Forderung der Wissenschaften E.V.
Počet spoluriešiteľských inštitúcií:	31 - Rakúsko: 1, Belgicko: 0, Bulharsko: 0, Cyprus: 0, Česko: 2, Nemecko: 3, Dánsko: 1, Španielsko: 2, Estónsko: 2, Fínsko: 1, Francúzsko: 1, Veľká Británia: 1, Grécko: 3, Chorvátsko: 1, Maďarsko: 1, Švajčiarsko: 1, Írsko: 1, Taliansko: 1, Litva: 1, Lotyšsko: 1, Holandsko: 1, Poľsko: 1, Portugalsko: 1, Rumunsko: 1, Slovensko: 1, Slovinsko: 1, Švédsko: 1
Čerpané financie:	EÚ: 11166 € Podpora medzinárodnej spolupráce z národných zdrojov: 4603 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Enric Pardo
Trvanie projektu:	1.1.2021 / 31.12.2025
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:	EÚ: 788 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Eugen Seiler
Trvanie projektu:	1.5.2021 / 31.10.2025
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:	- Podpora medzinárodnej spolupráce z národných zdrojov: 7672 €

Dosiahnuté výsledky:

Programy: Mobility

14.) Vývoj usmerňujúcich diód na báze oxidu galitého s vylepšenými tepelnými a elektrickými vlastnosťami vďaka integrácii s CVD diamantom *(Development of CVD Diamond-Integrated Gallium Oxide Rectifying Diodes with Improved Thermal Performance and Electric Field?Management)*

Zodpovedný riešiteľ:	Filip Gucmann
Trvanie projektu:	1.1.2025 / 31.12.2026
Evidenčné číslo projektu:	CAS-SAS-2024-08
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Česko: 1
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 1500 €

Dosiahnuté výsledky:

Programy: Horizont Európa

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

Zodpovedný riešiteľ:	Fedor Gömöry
Trvanie projektu:	1.9.2022 / 28.2.2027
Evidenčné číslo projektu:	Horizont Európa-101075602
Organizácia je koordinátorom projektu:	nie
Koordinátor:	SINTEF ENERGI AS, Trondheim
Počet spoluriešiteľských inštitúcií:	13 - Nemecko: 3, Francúzsko: 4, Írsko: 1, Taliansko: 4, Portugalsko: 1
Čerpané financie:	EÚ: 99274 € Podpora medzinárodnej spolupráce z národných zdrojov: 9206 €

Dosiahnuté výsledky:
Simonazzi, M., Morandi, A., Gömöry, F., Seiler, E., Mošať, M., Guerra, E., Mimmi, F., and Fabbri, M.: A combined circuit-FEM model of HTS power cables for their analysis during critical transients, IEEE Trans. Applied Supercond. 35 (2025) 4801908.

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

Power Nanoelectronics)

Zodpovedný riešiteľ:	Ján Kuzmík
Trvanie projektu:	1.12.2022 / 30.11.2025
Evidenčné číslo projektu:	Horizont Európa-101091433
Organizácia je koordinátorom projektu:	nie
Koordinátor:	THALES
Počet spoluriešiteľských inštitúcií:	10 - Nemecko: 2, Španielsko: 1, Veľká Británia: 1, Grécko: 3, Taliansko: 1, Rumunsko: 1, Švédsko: 1
Čerpané financie:	EÚ: 64438 € Podpora medzinárodnej spolupráce z národných zdrojov: 9213 €

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

Programy: EDF

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

Zodpovedný riešiteľ:	Ján Kuzmík
Trvanie projektu:	15.12.2022 / 14.12.2026
Evidenčné číslo projektu:	101102983
Organizácia je koordinátorom projektu:	nie
Koordinátor:	United Monolithic Semiconductors GmbH
Počet spoluriešiteľských inštitúcií:	15 - Belgicko: 1, Nemecko: 2, Španielsko: 3, Fínsko: 1, Francúzsko: 1, Grécko: 1, Chorvátsko: 1, Taliansko: 2, Litva: 1, Holandsko: 1, Švédsko: 1
Čerpané financie:	EÚ: 44702 € Podpora medzinárodnej spolupráce z národných zdrojov: 4603 €

Dosiahnuté výsledky:

Programy: Digital Europe Programme

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

Zodpovedný riešiteľ:	Mário Ziman
Zodpovedný riešiteľ v organizácii SAV:	Vladimír Cambel
Trvanie projektu:	1.1.2023 / 30.6.2025
Evidenčné číslo projektu:	101091548
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	13 - Slovensko: 13
Čerpané financie:	EÚ: 520526 €

Domáce projekty

Programy: VEGA

1.) Kontrola magnetického usporiadania topologického magnónového kryštálu
(Control of magnetic order in artificial magnonic crystal)

Zodpovedný riešiteľ:	Juraj Feilhauer
Trvanie projektu:	1.1.2024 / 31.12.2026
Evidenčné číslo projektu:	2/0168/24
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 5398 €

Dosiahnuté výsledky:

2.) 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: 19549 €

Dosiahnuté výsledky:
Sahoo, P.P., Hudec, B., Mičušík, M., Mikolásek, M., Precnerová, M., Švec, P.Jr., Nádaždy, P., Mičky, S., Zubair, M., Šiffalovič, P., andFröhlich, K.: Enhanced performance of LiFePO4 cathodes with alumina nanocoating by atomic layer deposition: insights from electrochemical, operando X-ray diffraction, and X-ray photoelectron spectroscopy analyses, ACS Applied Energy Mater. 8 (2025) 10594-10607.

Sahoo, P.P., Gu?neren, A., Hudec, B., Mičušík, M., Švec, P.Jr., Precnerová, M., Nada, A., Lenčéš, Z., and Fröhlich, K.: Silicon/graphite anode performance improvement: a combination of atomic layer-deposited ZnO coatings with a fluoroethylene carbonate additive, ACS Applied Energy Mater. 8 (2025) 6925-6934.

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

Zodpovedný riešiteľ:	Pavol Kováč

Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0017/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 15911 €

Dosiahnuté výsledky:
Hušek, I., Kováč, P., Melišek, T., Berek, D., and Kopera, L.: Superconducting currents of scarf joints between single-core ex situ MgB2 wires, Supercond. Sci Technol. 38 (2025) 055029.

4.) 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: 20347 €

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

Stoklas, R., Hasenöhrl, S., Gregušová, D., Hudec, B., Haščík, Š., Chvála, A., Šatka, A., Priesol, J., and Kuzmík, J.: Threshold voltage instabilities of the vertical GaN MOS FET structures with semi-insulating channel. In: 15th Inter. Conf. on Nitride Semiconductors ICNS-15. Malmö 2025. Výveska.

Kuzmík, J.: InN/InAlN heterostructures for new generation of fast electronics. In: 17th Inter. Symp. on Adv. Plasma Sci ISPlasma 2025. Chubu Univ. 2025. Invited.

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

Zodpovedný riešiteľ:	Lenka Pribusová Slušná
Trvanie projektu:	1.1.2023 / 31.12.2025
Evidenčné číslo projektu:	2/0046/23
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 5357 €

Dosiahnuté výsledky:
Babčenko, O., Sojková, M., Hulman, M., Čermák, J., Kromka, A., Claerbout, V.E.P., Nicolini, P., López-Carballeira, D., Kuliček, J., and Rezek, B.: Self-oriented MoS2 nanosheets on microcrystalline diamond layers: controlled synthesis and optoelectronic effects, ACS Applied Electron. Mater. 7 (2025) 1004-1018. 0564

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

Zodpovedný riešiteľ:	Eugen Seiler
Trvanie projektu:	1.1.2024 / 31.12.2026
Evidenčné číslo projektu:	2/0098/24
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 29985 €

Dosiahnuté výsledky:
Hussain, A., Dadhich, A., and Pardo, E.: Thermal quench modeling of REBCO racetrack coils under conduction cooling at 30?K for aircraft electric propulsion motors, Supercond. Sci Technol. 38 (2025) 105012.

Gömöry, F., Solovyov, M., and Šouc, J.: Investigation of magnetic hysteresis in HTS coil by means of numerical modeling using T–A formulation, Supercond. Sci Technol. 38 (2025) 115001.

Gömöry, F., Šouc, J., Solovyov, M., Landvogt, S., Pekarčíková, M., Bahl, C.R.H., and Wulff, A.C.: Analytical model for coupling loss in filamentized high-temperature superconducting tapes, Superconductivity 15 (2025) 100193.

Gömöry, F., Šouc, J., Solovyov, M., Ries, R., Hintze, C., Landvogt, S., Pekarčíková, M., Christensen, J.J., Bahl, C.R.H., J?rgensen, N.O., and Wulff, A.C.: Hysteresis and coupling loss in filamentized REBCO tapes, IEEE Trans. Applied Supercond. 35 (2025) 5900205.

7.) Dvojrozmerné materiály a ich heteroštructúry ako platforma pre multifunkčné zadiadenia *(Two-dimensional materials and their heterostructures as a platform for multifunctional devices)*

Zodpovedný riešiteľ:	Viera Skákalová
Trvanie projektu:	1.1.2025 / 31.12.2029
Evidenčné číslo projektu:	1/0104/25
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prírodovedecká fakulta UPJŠ
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 5107 €

Dosiahnuté výsledky:

8.) Heteroštruktúry na báze 2D dichalkogenidov prechodných kovov pre elektronické aplikácie *(2D TMD-based heterostructures for electronic applications)*

Zodpovedný riešiteľ:	Michaela Sojková
Trvanie projektu:	1.1.2025 / 31.12.2028
Evidenčné číslo projektu:	2/0075/25
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 9177 €

Dosiahnuté výsledky:

9.) Výskum a vývoj materiálov a štruktúr na báze nanoštruktúrnych chalkogenidov prechodných kovov pre superkapacitorové aplikácie *(Research and development of materials and structures based on nanostructured transition metal chalcogenides for supercapacitor applications)*

Zodpovedný riešiteľ:	Michaela Sojková
Trvanie projektu:	1.1.2024 / 31.12.2027
Evidenčné číslo projektu:	1/0707/24
Organizácia je koordinátorom projektu:	nie
Koordinátor:	FEI STU
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 2776 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Marianna Španková
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0140/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 6482 €

Dosiahnuté výsledky:
Zajcewa, I., Chrobak, M., Abaloszewa, I., Chromik, Š., Talacko, M., Španková, M., Ożga, M., Gierłowski, P., and Cieplak, M.Z.: Strain-induced inhomogeneity of the superconducting state in

strongly underdoped La2?xSrxCuO4 thin films, J. Applied Phys. 138 (2025) 123907.

11.) Tepelný manažment elektronických a optoelektronických súčiastok na báze Ga2O3 *(Thermal management in Ga2O3 based electronic and optoelectronic devices)*

Zodpovedný riešiteľ:	Milan Ťapajna
Trvanie projektu:	1.1.2025 / 31.12.2028
Evidenčné číslo projektu:	2/0156/25
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 30270 €

Dosiahnuté výsledky:
Chung, S.-T., Langpoklakpam, C., Dong, Y., Hsiao, Y.-K., Rakheja, S., Kuo, H.-C., Wuu, D.-S., Järrendahl, K., Hsiao, C.-L., Dobročka, E., Ťapajna, M., Gucmann, F., and Horng, R.-H.: Effect of the AlGaO spacer layer on the performance of β-gallium oxide metal–oxide semiconductor field electtransistors, Adv. Electron. Mater. 11 (2025) e00291.

Chouhan, H., Dobročka, E., Nádaždy, P., Ťapajna, M., Hušeková, K., Cora, I., Rosová, A., Mikolášek, M., Egyenes, F., Keshtkar, J., Hrubišák, F., Sobota, M., Šiffalovič, P., Gregušová, D., Pohorelec, O., Wosko, M., Paszkiewicz, R., and Gucmann, F.: Rotational domains and origin of improved crystal quality in heteroepitaxial (201) β-Ga_2O_3 films grown on vicinal substrates by MOCVD, J. Alloys Compounds 1044 (2025) 184481.

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

Zodpovedný riešiteľ:	Bohumír Zaťko
Trvanie projektu:	1.1.2024 / 31.12.2027
Evidenčné číslo projektu:	2/0063/24
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 16012 €

Dosiahnuté výsledky:
Šagátová, A., Kováčová, E., Gregušová, D., Zaťko, B.: Improved spectrometry of semi-insulating GaAs detectors by chemically thinning detector thickness. Journal of Instrumentation 2025, vol. 20, no. C02040.

Programy: APVV

13.) 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: 13841 €

Dosiahnuté výsledky:
Gömöry, F., Šouc, J., Solovyov, M., Landvogt, S., Pekarčíková, M., Bahl, C.R.H., and Wulff, A.C.: Analytical model for coupling loss in filamentized high-temperature superconducting tapes, Superconductivity 15 (2025) 100193.

Gömöry, F., Šouc, J., Solovyov, M., Ries, R., Hintze, C., Landvogt, S., Pekarčíková, M., Christensen, J.J., Bahl, C.R.H., J?rgensen, N.O., and Wulff, A.C.: Hysteresis and coupling loss in filamentized REBCO tapes, IEEE Trans. Applied Supercond. 35 (2025) 5900205.

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

Zodpovedný riešiteľ:	Dagmar Gregušová
Trvanie projektu:	1.7.2022 / 30.6.2025
Evidenčné číslo projektu:	APVV-21-0365
Organizácia je koordinátorom projektu:	nie
Koordinátor:	STU Bratislava
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 14793 €

Dosiahnuté výsledky:
Kordoš, P., Gregušová, D., Mikulics, M., and Hardtdegen, H.: Cutoff frequency increase of gate recessed AlGaN/GaN MISHFETs with amorphous AlN insulator, AIP Adv. 15 (2025) 025028.

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

Zodpovedný riešiteľ:	Dagmar Gregušová
Trvanie projektu:	1.7.2022 / 30.6.2026
Evidenčné číslo projektu:	APVV-21-0278
Organizácia je koordinátorom projektu:	nie
Koordinátor:	STU Bratislava
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 24870 €

Dosiahnuté výsledky:

Shazileh, M.S., Řeháček, V., Kadlečíková, M., Kostič, I., Mikolášek, M., Sojková, M., Gregušová, D., and Hotový, I.: Effects of sulfurization temperature and substrate type on the optical properties of WS2 thin film, J. Electr. Engn. 76 (2025) 256-264.

Kadlečíková, M., Hotový, I., Kumar, N., Kostič,I., Sojková, M., Řeháček, V., and Gregušová, D.: Raman Spectral Analysis of Sputtered and Sulfurized Nanostructured WS2 Films, Crystals 2025, 15(11), 955; DOI: 10.3390/cryst15110955

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

Zodpovedný riešiteľ:	Filip 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: 16200 €

Dosiahnuté výsledky:
Chouhan, H., Dobročka, E., Nádaždy, P., Ťapajna, M., Hušeková, K., Cora, I., Rosová, A., Mikolášek, M., Egyenes, F., Keshtkar, J., Hrubišák, F., Sobota, M., Šiffalovič, P., Gregušová, D., Pohorelec, O., Wosko, M., Paszkiewicz, R., and Gucmann, F.: Rotational domains and origin of improved crystal quality in heteroepitaxial (201) β-Ga_2O_3 films grown on vicinal substrates by MOCVD, J. Alloys Compounds 1044 (2025) 184481. IF 6.3, Q1

Chung, S.-T., Langpoklakpam, C., Dong, Y., Hsiao, Y.-K., Rakheja, S., Kuo, H.-C., Wuu, D.-S., Järrendahl, K., Hsiao, C.-L., Dobročka, E., Ťapajna, M., Gucmann, F., and Horng, R.-H.: Effect of the AlGaO spacer layer on the performance of β-gallium oxide metal–oxide semiconductor field elect transistors, Adv. Electron. Mater. 11 (2025) e00291. IF 5.3, Q1

17.) Výkonové tranzistory na báze oxidu galitého pre vysokonapäťové aplikácie *(Gallium oxide power transistors for high-voltage operation)*

Zodpovedný riešiteľ:	Filip Gucmann
Trvanie projektu:	1.9.2025 / 31.8.2029
Evidenčné číslo projektu:	APVV-24-0325
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 18103 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Martin Hulman
Trvanie projektu:	1.7.2024 / 30.6.2027
Evidenčné číslo projektu:	APVV-23-0564
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 31232 €

Dosiahnuté výsledky:

1. Babčenko, O., Sojková, M., Hulman, M., Čermák, J., Kromka, A., Claerbout, V.E.P., Nicolini, P., López-Carballeira, D., Kuliček, J., and Rezek, B.: Self-oriented MoS_2 nanosheets on microcrystalline diamond layers: controlled synthesis and optoelectronic effects, ACS Applied Electron. Mater. 7 (2025) 1004-1018.

2. Kozak, A.O., Ilčíková, M., Babaei, N., Konios, N., Mičušík, M., Vretenár, V., Precner, M., Osička, J., Orovčík, Ľ., Eliáš, E., Dobročka, E., Hulman, M., Mosnáček, J., and Ťapajna, M.: Effect of polymer grafting on the tribological performance of graphene oxide under ambient air and vacuum, ACS Applied Mater. Interfaces 17 (2025) 46172-46184.

3. Sojková, M., Pohorelec, O., Hrdá, J., Krajčovičová, T.E., Kozak, A., Pribusová Slušná, L., Ščepka, T., Hulman, M., Maťko, M., Vretenar, V., Píš, I., Bondino, F., Ťapajna, M., and Gregušová, D.: Investigating Ohmic contacts in $PtSe_2$-based electronics, FlatChem 54 (2025) 100943.

19.) Topologické materiály pre prvky novej generácie *(Topological Materials for Next-Generation Devices)*

Zodpovedný riešiteľ:	Martin Hulman
Trvanie projektu:	1.7.2025 / 30.6.2027
Evidenčné číslo projektu:	DS-FR-24-0059
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 2500 €

Dosiahnuté výsledky:

20.) Ternárne chalkogenidové perovskity pre fotovoltaiku *(Ternary chalcogenide perovskites for photovoltaics)*

Zodpovedný riešiteľ:	Štefan Chromik
Trvanie projektu:	1.7.2024 / 30.6.2028
Evidenčné číslo projektu:	APVV-23-0202
Organizácia je	nie

koordinátorom projektu:	
Koordinátor:	Univerzita Komenského v Bratislave - Prírodovedecká fakulta
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 7500 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Tibor Izsák
Trvanie projektu:	1.9.2024 / 31.12.2027
Evidenčné číslo projektu:	APVV-23-0361
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 31292 €

Dosiahnuté výsledky:

1. Kozak, I., Izsák, T., Ondič, L., Kozak, A., Hulman, M., Kromka, A., and Varga, M.: Temperature- and excitation wave-length-dependent photoluminescence of nitrogen- and silicon-vacancy colour centres in diamond. In: Book of abstracts of IEEE 15th Inter. Conf. "Nanomaterials: Applications & Properties" (IEEE NAP-2025). Held in Bratislava, Slovakia, September 7–12, 2025.

2. Izsák, T., Kozak, I., Ondič, L., Kozak, A., Hulman, M., Kromka, A., and Varga, M.: Photoluminiscence properties of Iia (111) single-crystalline diamond epitaxially overgrown with Si-doped diamond film. In: Book of abstracts of 17th Inter. Conf. Nanomater. - Research & Appl. (Nanocon) 2025. Held in Brno 2025, 15-17 October. ISBN 978-80-88365-28-0, Tanger Ltd., Ostrava. Page 77.

22.) Nové heteroštruktúry pre (sub)THz elektroniku *(Novel heterostructures for (sub)THz electronics)*

Zodpovedný riešiteľ:	Ján Kuzmík
Trvanie projektu:	1.9.2025 / 31.8.2029
Evidenčné číslo projektu:	APVV-24-0166
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 17730 €

Dosiahnuté výsledky:

23.) p-GaN elektronika pre úsporu energie a post-CMOS obvody *(p-GaN electronics for energy*

savings and beyond-CMOS circuits)

Zodpovedný riešiteľ:	Ján Kuzmík
Trvanie projektu:	1.7.2022 / 30.6.2025
Evidenčné číslo projektu:	APVV-21-0008
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 34375 €

Dosiahnuté výsledky:

Kuzmík, J.: InN/InAlN heterostructures for new generation of fast electronics. In: 17th Inter. Symp. on Adv. Plasma Sci ISPlasma 2025. Chubu Univ. 2025. Invited.

24.) Viacpáskové vysokoteplotné supravodivé cievky pre supravodivé motory a magnety *(Multiple-tape high temperature superconducting coils for superconducting motors and magnets)*

Zodpovedný riešiteľ:	Enric Pardo
Trvanie projektu:	1.9.2025 / 31.8.2029
Evidenčné číslo projektu:	APVV-24-0654
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 20660 €

Dosiahnuté výsledky:

25.) Znižovanie striedavých strát v modeli kábla zo zväzku filamentovaných vysokoteplotných supravodičov *(Reduction of AC losses in a cable model made of striated hightemperature superconductors)*

Zodpovedný riešiteľ:	Eugen Seiler
Trvanie projektu:	1.9.2025 / 31.8.2029
Evidenčné číslo projektu:	APVV-24-0061
Organizácia je koordinátorom projektu:	nie
Koordinátor:	MTF STU, Trnava
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 11310 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Michaela Sojková
Trvanie projektu:	1.7.2024 / 30.6.2026
Evidenčné číslo projektu:	SK-AT-23-0021
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 2774 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Marianna Španková
Trvanie projektu:	1.7.2024 / 31.12.2027
Evidenčné číslo projektu:	APVV-23-0238
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 25062 €

Dosiahnuté výsledky:
Zajcewa, I., Chrobak, M., Abaloszewa, I., Chromik, Š., Talacko, M., Španková, M., Ożga, M., Gierłowski, P., and Cieplak, M.Z.: Strain-induced inhomogeneity of the superconducting state in strongly underdoped $La_{2-x}Sr_xCuO_4$ thin films, J. Applied Phys. 138 (2025) 123907.

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: 44000 €

Dosiahnuté výsledky:
Sojková, M., Pohorelec, O., Hrdá, J., Krajčovičová, T.E., Kozak, A., Pribusová Slušná, L., Ščepka, T., Hulman, M., Maťko, M., Vretenar, V., Píš, I., Bondino, F., Ťapajna, M., and Gregušová, D.: Investigating Ohmic contacts in PtSe2-based electronics, FlatChem 54 (2025) 100943.

Kozak, A.O., Ilčíková, M., Babaei, N., Konios, N., Mičušík, M., Vretenár, V., Precner, M., Osička, J., Orovčík, Ľ., Eliáš, E., Dobročka, E., Hulman, M., Mosnáček, J., and Ťapajna, M.: Effect of polymer grafting on the tribological performance of graphene oxide under ambient air and vacuum, ACS Applied Mater. Interfaces 17 (2025) 46172-46184.

29.) Vývoj technológií epitaxie Ga2O3 na rôzne substráty a Schottkyho diód so zlepšenou spoľahlivosťou *(Development of Ga2O3 epitaxy on different substrates and Schottky barrier diodes with enhanced reliability)*

Zodpovedný riešiteľ:	Milan Ťapajna
Trvanie projektu:	1.7.2025 / 30.6.2028
Evidenčné číslo projektu:	SK-TW-RD-24-0006
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 1, Taiwan: 1
Čerpané financie:	APVV: 9357 €

Dosiahnuté výsledky:
Chouhan, H., Dobročka, E., Nádaždy, P., Ťapajna, M., Hušeková, K., Cora, I., Rosová, A., Mikolášek, M., Egyenes, F., Keshtkar, J., Hrubišák, F., Sobota, M., Šiffalovič, P., Gregušová, D., Pohorelec, O., Wosko, M., Paszkiewicz, R., and Gucmann, F.: Rotational domains and origin of improved crystal quality in heteroepitaxial (201) β-Ga_2O_3 films grown on vicinal substrates by MOCVD, J. Alloys Compounds 1044 (2025) 184481. IF 6.3, Q1

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: 29878 €

Dosiahnuté výsledky:
Šagátová, A., Kováčová, E., Gregušová, D., and Zaťko, B.: Improved spectrometry of semi-insulating GaAs detectors by chemically thinning detector thickness, J. Instrument. 20 (2025) C02040.

Kurucová, N., Granja, C., Hladik, D., Šagátová, A., and Zaťko, B.: Temperature dependence compensation of X-ray spectrometry with MiniPIX Timepix3 SiC detector, J. Instrument. 20 (2025) C02033.

Izsák, T., Haščík, Š., Kováčová, E., Vojs., M., Zaťko, B.: Influence of plasma etching conditions on the farbrication of high aspect ratio GaAs structures for radiation detectors. In Proceedings of ADEPT 2025: 13th International Conference on Advances in Electronic and Photonic Technologies - ADEPT 2025, p. 182-185. ISBN 978-80-554-2208-4.

Kurucová, N., Granja, C., Hladík, D., Šagátová, A., Zaťko, B.: Temperature dependence compensation of X-ray spectrometry with MiniPIX Timepix3 SiC detector. In Journal of Instrumentation 2025, vol. 20, no. C02033.

31.) 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: 13561 €

Dosiahnuté výsledky:
Izsák, T., Haščík, Š., Kováčová, E., Vojs., M., Zaťko, B.: Influence of plasma etching conditions on the farbrication of high aspect ratio GaAs structures for radiation detectors. In Proceedings of ADEPT 2025: 13th International Conference on Advances in Electronic and Photonic Technologies - ADEPT 2025, p. 182-185. ISBN 978-80-554-2208-4.

Programy: Iné projekty

32.) Supravodiče s vysokou kinetickou indukčnosťou pre aplikácie v kvantových obvodoch *(High kinetic inductance superconductors for quantum circuits applications)*

Zodpovedný riešiteľ:	Marián Janík
Trvanie projektu:	1.11.2024 / 30.10.2027
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	QUTE.sk : 48278 €

Dosiahnuté výsledky:

Programy: Vedecko-technické projekty

33.) Príprava a vlastnosti supravodivých, magnetických a dielektrických oxidových vrstiev a štruktúr pre moderné elektronické aplikácie *(Preparation and properties of superconducting, magnetic and dielectric oxide films and structures for modern electronic applications)*

Zodpovedný riešiteľ:	Štefan Chromik
Trvanie projektu:	1.1.2025 / 31.12.2026
Evidenčné číslo projektu:	PAS-SAS-2024-06
Organizácia je	áno

koordinátorom projektu:	
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 1500 €

Dosiahnuté výsledky:

34.) Pulzná laserová depozícia veľkoplošných heteroštruktúr 2D materiálov pre vysoko výkonnú elektroniku *(PULSed laser deposition of large ARea 2D materials heterostructures for high performance electronics)*

Zodpovedný riešiteľ:	Marianna Španková
Trvanie projektu:	1.1.2025 / 31.12.2026
Evidenčné číslo projektu:	CNR-SAS-2024-06
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 3000 €

Dosiahnuté výsledky:

Programy: DoktoGrant

35.) Development of Electronic System Interface of Neuromorphic Arrays for In-Sensor Computing *(Development of Electronic System Interface of Neuromorphic Arrays for In-Sensor Computing)*

Zodpovedný riešiteľ:	Mohammad Dehghan
Trvanie projektu:	1.1.2025 / 31.12.2025
Evidenčné číslo projektu:	APP0660
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 2481 €

Dosiahnuté výsledky:

Programy: IMPULZ

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

Zodpovedný riešiteľ:	Marian Varga

Trvanie projektu:	1.8.2024 / 30.7.2029
Evidenčné číslo projektu:	IM-2023-87
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 189202 €

Dosiahnuté výsledky:

Programy: Plán obnovy EÚ

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

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

Dosiahnuté výsledky:

38.) Memristívna senzorika pre post-digitálnu elektroniku *(Memristive sensorics for post-digital electronics)*

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

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Fedor Gömöry
Trvanie projektu:	1.4.2024 / 31.3.2026
Evidenčné číslo projektu:	09I01-03-V04 -00020
Organizácia je koordinátorom projektu:	áno

Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Výskumná agentúra: 162915 €

Dosiahnuté výsledky:
Simonazzi, M., Morandi, A., Gömöry, F., Seiler, E., Mošať, M., Guerra, E., Mimmi, F., and Fabbri, M.: A combined circuit-FEM model of HTS power cables for their analysis during critical transients, IEEE Trans. Applied Supercond. 35 (2025) 4801908.

40.) Materiály so zvýšenou bezpečnosťou pre Li-iónové batérie *(Enhanced safe materials for Li-ion batteries)*

Zodpovedný riešiteľ:	Boris Hudec
Trvanie projektu:	1.1.2025 / 31.8.2026
Evidenčné číslo projektu:	09I04-03-V02-00028
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	4 - Slovensko: 4
Čerpané financie:	Výskumná agentúra: 102126 €

Dosiahnuté výsledky:
Sahoo, P.P., Hudec, B., Mičušík, M., Mikolásek, M., Precnerová, M., Švec, P.Jr., Nádaždy, P., Mičky, S., Zubair, M., Šiffalovič, P., andFröhlich, K.: Enhanced performance of $LiFePO_4$ cathodes with alumina nanocoating by atomic layer deposition: insights from electrochemical, operando X-ray diffraction, and X-ray photoelectron spectroscopy analyses, ACS Applied Energy Mater. 8 (2025) 10594-10607.

Sahoo, P.P., Gu?neren, A., Hudec, B., Mičušík, M., Švec, P.Jr., Precnerová, M., Nada, A., Lenčéš, Z., and Fröhlich, K.: Silicon/graphite anode performance improvement: a combination of atomic layer-deposited ZnO coatings with a fluoroethylene carbonate additive, ACS Applied Energy Mater. 8 (2025) 6925-6934.

41.) Slovenská technická ekosférická platforma *(Slovak Technical Ecosphere Platform)*

Zodpovedný riešiteľ:	Boris Hudec
Trvanie projektu:	1.4.2025 / 30.6.2027
Evidenčné číslo projektu:	09I02-03-V01-00038
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Bizzcom s.r.o.
Počet spoluriešiteľských inštitúcií:	14 - Nemecko: 2, Španielsko: 4, Slovensko: 8
Čerpané financie:	Výskumná agentúra: 64382 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Boris Hudec
Trvanie projektu:	1.3.2024 / 30.6.2026
Evidenčné číslo projektu:	09I05-03-V02-00058
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	Výskumná agentúra: 21348 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Tetiana Kalmykova
Trvanie projektu:	1.4.2022 / 31.3.2025
Evidenčné číslo projektu:	09I03-03-V01-00006
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Výskumná agentúra: 24103 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Andrii Kozak
Trvanie projektu:	1.7.2024 / 30.6.2026
Evidenčné číslo projektu:	09I03-03-V04-00709
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Výskumná agentúra: 64104 €

Dosiahnuté výsledky:

Kozak, A.O., Ilčíková, M., Babaei, N., Konios, N., Mičušík, M., Vretenár, V., Precner, M., Osička, J., Orovčík, Ľ., Eliáš, E., Dobročka, E., Hulman, M., Mosnáček, J., and Ťapajna, M.: Effect of polymer grafting on the tribological performance of graphene oxide under ambient air and vacuum, ACS Applied Mater. Interfaces 17 (2025) 46172-46184.

Kozak, A.O., Porada, O.K., Manzhara, V.S., Bratus, V.Y., Ivashchenko, V.I., Ivashchenko, L.A., Orovčík, Ľ., Pribusová Slušná, L., Piryatinski, Y.P., Bukivskij, P.M., Tolochko, A.S., and Shynkarenko, V.K.: The low-temperature photoluminescence of thin PECVD Si-C-N-H films: an effect of hydrogenation, Optical Mater. 160 (2025) 116751.

Sojková, M., Pohorelec, O., Hrdá, J., Krajčovičová, T.E., Kozak, A., Pribusová Slušná, L., Ščepka, T., Hulman, M., Maťko, M., Vretenar, V., Píš, I., Bondino, F., Ťapajna, M., and Gregušová, D.: Investigating Ohmic contacts in $PtSe_2$-based electronics, FlatChem 54 (2025) 100943.

Maksakova O., Smyrnova K., Ludrovcová B., Sahul M., Haršáni M., Truchlý M., Sahul M., Vopát T., Pašák M., Kozak A., Pogrebnjak A.: Tribological and micromechanical performance of hard yet tough TiSiN / WN coatings: An experimental analysis of multilayer effects, Int. J. Refract. Met. Hard Mater., 131 (2025) 107212.

Konferený príspevok: Kozak, A., Sojková, M., Hrdá, J., Hulman, M., and Ťapajna, M.: Friction of the $PtSe_2$ layers with different grain sizes in ambient air and vacuum. In: Tribology international conference 2025. AlBufeira (Portugal) 2025.

Konferený príspevok: Kozak, A., Precner, M., Halim, J., Orovčík, L., Hudec, B., Mičušík, M., and Ťapajna, M.: Tribological properties of Ti_3C_2Tx in vacuum and ambient air conditions. In: 8th Inter. Conf. Multifunct., Hybrid and Nanomater. Montpellier 2025. Výveska.

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

Zodpovedný riešiteľ:	Ján Kuzmík
Trvanie projektu:	1.11.2023 / 30.6.2026
Evidenčné číslo projektu:	09I01-03-V04 -00019
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Výskumná agentúra: 64788 €

Dosiahnuté výsledky:
Kuzmík, J.: InN/InAlN heterostructures for new generation of fast electronics. In: 17th Inter. Symp. on Adv. Plasma Sci ISPlasma 2025. Chubu Univ. 2025. Invited.

46.) Supravodivé komponenty pre vodíkovo-elektrické lietadlá *(Superconducting components for hydrogen-electric aircraft)*

Zodpovedný riešiteľ:	Enric Pardo
Trvanie projektu:	1.3.2024 / 31.8.2026
Evidenčné číslo projektu:	09I04-03-V02-00039
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Výskumná agentúra: 28944 €

Dosiahnuté výsledky:
Hussain, A., Dadhich, A., and Pardo, E.: Thermal quench modeling of REBCO racetrack coils

under conduction cooling at 30?K for aircraft electric propulsion motors, Supercond. Sci Technol. 38 (2025) 105012.

Kováč, J., Kováč, P., Búran, M., Melišek, T., Gažová, K., and Kikuchi, A.: DC and AC properties of 49-strand circular cables made of differently sheathed ultrafine MgB_2 superconducting wires, Supercond. Sci Technol. 38 (2025) 055028.

Kováč, P., Kováč, J., Berek, D., Rindfleisch, M., Búran, M., Melišek, T., Hušek, I., and Tomsic, M.: Rutherford MgB_2 cable with 20 ?m twisted filaments inside the Nb/CuNi/CuZn sheath, Superconductivity 14 (2025) 100172.

Gömöry, F., Solovyov, M., and Šouc, J.: Investigation of magnetic hysteresis in HTS coil by means of numerical modeling using T–A formulation, Supercond. Sci Technol. 38 (2025) 115001.

Gömöry, F., Šouc, J., Solovyov, M., Landvogt, S., Pekarčíková, M., Bahl, C.R.H., and Wulff, A.C.: Analytical model for coupling loss in filamentized high-temperature superconducting tapes, Superconductivity 15 (2025) 100193.

47.) Grafénom zapuzdrené dvojrozmerné magnetické materiály ako platforma pre spintronické zariadenia *(Graphene encapsulated two-dimensional magnetic materials as a platform for spintronics devices)*

Zodpovedný riešiteľ:	Marián Precner
Trvanie projektu:	1.1.2025 / 31.8.2026
Evidenčné číslo projektu:	09I05-03-V03-00071
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	Výskumná agentúra: 101876 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Michaela Sojková
Trvanie projektu:	1.3.2024 / 30.6.2026
Evidenčné číslo projektu:	09I05-03-V02-00037
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	Výskumná agentúra: 29918 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Mykola Soloviov
Trvanie projektu:	1.4.2025 / 31.3.2026

Evidenčné číslo projektu:	09I04-03-V03-00001
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	Výskumná agentúra: 3559 €

Dosiahnuté výsledky:

50.) Vývoj pokročilých nanoštruktúrovaných materiálov pre elektrokatalýzu s použitím ekologických hlboko eutektických rozpúšťadiel: Trvalo udržateľný prístup k dekarbonizácii *(Development of Advanced Nano-structured Materials for Electrocatalysis using an Eco-friendly Deep Eutectic Solvents: A Sustainable Approach to Decarbonisation)*

Zodpovedný riešiteľ:	Ján Šoltýs
Trvanie projektu:	1.1.2025 / 31.8.2026
Evidenčné číslo projektu:	09I04-03-V02-00006
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	Výskumná agentúra: 85315 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Milan Ťapajna
Trvanie projektu:	1.1.2024 / 30.6.2026
Evidenčné číslo projektu:	09I05-03-V02-00030
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	Výskumná agentúra: 47752 €

Dosiahnuté výsledky:
Chouhan, H., Dobročka, E., Nádaždy, P., Ťapajna, M., Hušeková, K., Cora, I., Rosová, A., Mikolášek, M., Egyenes, F., Keshtkar, J., Hrubišák, F., Sobota, M., Šiffalovič, P., Gregušová, D., Pohorelec, O., Wosko, M., Paszkiewicz, R., and Gucmann, F.: Rotational domains and origin of improved crystal quality in heteroepitaxial (201) β-Ga_2O_3 films grown on vicinal substrates by MOCVD, J. Alloys Compounds 1044 (2025) 184481.

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

Zodpovedný riešiteľ:	Bohumír Zaťko
Trvanie projektu:	1.1.2024 / 30.6.2026
Evidenčné číslo projektu:	09I05-03-V02-00073
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	Výskumná agentúra: 180219 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Bohumír Zaťko
Trvanie projektu:	1.7.2024 / 30.6.2026
Evidenčné číslo projektu:	09I03-03-V06-00108
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Výskumná agentúra: 37460 €

Dosiahnuté výsledky:

Programy: PostdokGrant

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

Zodpovedný riešiteľ:	Tomáš Kujovič
Trvanie projektu:	1.7.2024 / 31.12.2025
Evidenčné číslo projektu:	APD0064
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 2960 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Ondrej Pohorelec
Trvanie projektu:	1.7.2024 / 31.12.2025
Evidenčné číslo projektu:	24183001
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 5371 €

Dosiahnuté výsledky:
Konferenčný príspevok: Pohorelec, O., et al..: Optimization of n++GaN cap surface via digital etching for InAlN/GaN E/D-mode MOS HEMTs. In: WOCSDICE - EXMATEC. Cadiz 2025.

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

Zodpovedný riešiteľ:	Lenka Pribusová Slušná
Trvanie projektu:	1.7.2024 / 31.12.2025
Evidenčné číslo projektu:	APD0021
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 7109 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Iuliia Vetrova
Trvanie projektu:	1.7.2024 / 31.12.2025
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Publikačná činnosť organizácie

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ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

ADCA01 BABCHENKO, Oleg - SOJKOVÁ, Michaela - HULMAN, Martin - ČERMÁK, Jan - KROMKA, A. - CLAERBOUT, V.E.P. - NICOLINI, Pierre - LÓPEZ-CARBALLEIRA, D. - KULIČEK, J. - REZEK, B. Self-oriented MoS2 nanosheets on microcrystalline diamond layers: controlled synthesis and optoelectronic effects. In ACS Applied Electronic Materials, 2025, vol. 7, p. 1004-1018. (2024: 4.7 - IF, Q2 - JCR, 1.045 - SJR, Q1 - SJR). ISSN 2637-6113. Dostupné na: https://doi.org/10.1021/acsaelm.4c01704

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AFD01 ONDREJKA, P.** - SOJKOVÁ, Michaela - KOTOK, V. - ZIMA, Petr - KEMENY, M. - NOVÁK, Patrik - MIKOLÁŠEK, M. Sulfurization of Ni-foam as a binder-free supercapacitor electrode. In ASDAM 2022 : Conference Proceedings. Eds. J. Marek et al. - IEEE, 2022, p. 127. ISBN 978-1-6654-6977-7. Dostupné na: https://doi.org/10.1109/ASDAM55965.2022.9966779

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1. [1.1] KHAN, J. - SHAKEEL, N. - ALAM, S. - AL-KAHTANI, A.A. - DAHSHAN, A. - SALEEM, M.I. - ALROBEI, H. Unlocking the potential of sulfurized electrode materials for next-generation supercapacitor technology. In INTERNATIONAL JOURNAL OF HYDROGEN ENERGY. ISSN 0360-3199, OCT 28 2024, vol. 88, p. 1163-1185. Dostupné na: https://doi.org/10.1016/j.ijhydene.2024.09.143,

Registrované v: WOS

AFG Abstrakty príspevkov zo zahraničných konferencií

AFG01 SAHOO, Prangya Parimita - GÜNEREN, Alper - HUDEC, Boris - MIČUŠÍK, Matej - LENČÉŠ, Zoltán - SIFFALOVIC, P. - FRÖHLICH, Karol. Improved properties of Li-ion battery electrodes protected by Al2O3 and ZnO ultrathin layers prepared by atomic layer deposition. In ECS Meeting Abstracts, 2022, vol. MA2022-02, art. no. 1136. ISSN 2151-2043.

Citácie:

1. [1.1] SALIMI, P. - GOTTARDI, G. - MORAIS, W.G. - BARTALI, R. - LAIDANI, N. - MACCHI, E.G. Improving Lithium-Ion Battery Performance: Nano Al2O3 Coatings on High-Mass Loading LiFePO4 Cathodes via Atomic Layer Deposition. In BATTERIES-BASEL. ISSN 2313-0105, SEP 2024, vol. 10, no. 9, art. no. 304. Dostupné na: https://doi.org/10.3390/batteries10090304, Registrované v: WOS

AFK Postery zo zahraničných konferencií

AFK01 PICHONAT, E. - KUZMÍK, Ján - BYCHIKHIN, S. - POGANY, D. - POISSON, M.A. - GRIMBERT, B. - GAQUIèRE, C. Temperature analysis of AlGaN/GaN high-electron- mobility transistors using micro-Raman scattering spectroscopy and transient interferometric mapping. Dostupné na: https://doi.org/10.1109/EMICC.2006.282748

Citácie:

1. [1.1] PANDEY, V. - MARSIC, V. - IGIC, P. - FARAMEHR, S. TCAD Modelling of Magnetic Hall Effect Sensors. In INVENTIONS. ISSN 2411-5134, AUG 2024, vol. 9, no. 4, art. no. 72. Dostupné na: https://doi.org/10.3390/inventions9040072, Registrované v: WOS

Príloha A-4

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

doc. RNDr. Martin Moško, DrSc.
Názov semestr. predmetu: Elektróny v neusporiadaných a mezoskopických systémoch
Počet hodín za semester: 39
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, CENAM

doc. RNDr. Martin Moško, DrSc.
Názov semestr. predmetu: Fyzika polovodičov a polovodičových súčiastok
Počet hodín za semester: 52
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, CENAM

doc. RNDr. Martin Moško, DrSc.
Názov semestr. predmetu: Mezoskopická fyzika a kvantová elektronika
Počet hodín za semester: 65
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, CENAM

Ing. Alica Rosová, CSc.
Názov semestr. predmetu: Characterization methods in materials chemistry
Počet hodín za semester: 3
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Laboratórium pokročilých materiálov

Ing. Milan Ťapajna, PhD.
Názov semestr. predmetu: Characterization methods in materials chemistry
Počet hodín za semester: 3
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Laboratórium pokročilých materiálov

Semestrálne cvičenia:

RNDr. Dagmar Gregušová, DrSc.
Názov semestr. predmetu: Praktikum z fyziky tuhých látok
Počet hodín za semester: 21
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KEF

Ing. Ondrej Pohorelec, PhD.
Názov semestr. predmetu: Praktikum z fyziky tuhých látok
Počet hodín za semester: 12
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, KEF

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

Ing. Alica Rosová, CSc.
Názov semestr. predmetu: Characterization methods in materials chemistry
Počet hodín za semester: 3

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Laboratórium pokročilých materiálov

Ing. Ján Šoltýs, PhD
Názov semestr. predmetu: Characterization methods in materials chemistry
Počet hodín za semester: 8
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Laboratórium pokročilých materiálov

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

Ing. Jaroslav Tóbik, PhD.
Názov semestr. predmetu: Fyzika 1
Počet hodín za semester: 24
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚJFI

Ing. Jaroslav Tóbik, PhD.
Názov semestr. predmetu: Fyzika 2
Počet hodín za semester: 48
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚJFI

Ing. Jaroslav Tóbik, PhD.
Názov semestr. predmetu: Fyzika 3
Počet hodín za semester: 24
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚJFI

Semináre:

Ing. Jaroslav Tóbik, PhD.
Názov semestr. predmetu: Aplikovaný magnetizmus
Počet hodín za semester: 6
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

Terénne cvičenia:

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

Ing. Martin Kucharovič, PhD.
Názov semestr. predmetu: Elektromagnetické sysytémy
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

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

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

Individuálne prednášky:

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

Mgr. Michaela Sojková, PhD.
Názov semestr. predmetu: Introduction to Materials Chemistry
Počet hodín za semester: 3
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Anorganická chémia

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**
Česko					Edmund Dobročka	1
					Juraj Feilhauer	2
					Filip Gucmann	3
					Javad Keshtar	3
					Miriam Krettová	3
					Peter Nádaždy	1
					Viera Skákalová	3
					Ján Šoltýs	2
					Marian Varga	6
					Marian Varga	9
					Marian Varga	3
					Zdenko Zápražný	1
					Bohumír Zaťko	5
					Bohumír Zaťko	3
Dánsko					Mohammad Dehghan	3
Francúzsko					Bohumír Zaťko	4
Grécko					Michal Blaho	3
					Ján Kuzmík	3
					Ján Kuzmík	21
					Ján Kuzmík	3
Holandsko					Ján Šoltýs	3
Nemecko					Michal Blaho	2
					Ivan Kundrata	2
					Ján Kuzmík	2

					Ondrej Pohorelec	2
Poľsko					Filip Gucmann	3
					Štefan Chromik	5
					Javad Keshtar	3
					Ondrej Pohorelec	3
					Eugen Seiler	6
					Marcel Talacko	5
Portugalsko					Fedor Gömöry	3
					Fedor Gömöry	4
Rakúsko					Fridrich Egyenes	6
					Fridrich Egyenes	1
					Fridrich Egyenes	5
					Fridrich Egyenes	1
					Fridrich Egyenes	3
					Fridrich Egyenes	1
					Fridrich Egyenes	2
					Fridrich Egyenes	1
					Jana Hrdá	1
					Peter Kotrusz	1
					Timea Ema Krajčovičová	1
					Timea Ema Krajčovičová	1
					Pavol Mozola	1
					Viera Skákalová	1
					Viera Skákalová	1
					Viera Skákalová	1
					Viera Skákalová	1
					Viera	1

					Skákalová	
					Michaela Sojková	1
					Michaela Sojková	1
					Michaela Sojková	1
					Michaela Sojková	1
					Michaela Sojková	1
					Michaela Sojková	1
					Michaela Sojková	1
					Michaela Sojková	1
Taiwan					Mohammad Dehghan	30
Taliansko					Fedor Gömöry	5
					Fedor Gömöry	5
					Štefan Chromik	5
					Martin Kucharovič	5
					Mykola Soloviov	5
					Marianna Španková	5
Veľká Británia					Michal Blaho	2
					Michal Blaho	3
					Filip Gucmann	2
					Ján Kuzmík	3
					Viera Skákalová	4
					Milan Ťapajna	2
Počet vyslaní spolu					**72**	**239**

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

Krajina	**D r u h d o h o d y**					
	MAD, KD, VTS		**Medziústavná**		**Ostatné**	
	Meno pracovníka	**Počet dní**	**Meno pracovníka**	**Počet dní**	**Meno pracovníka**	**Počet dní**
Česko					C. Granja	2

					D. K. Sharma	4
					T. Slavíček	2
Francúzsko					M. B. Mosbahl	2
Japonsko					Méhes G.	10
Poľsko					I. Zajcewa	5
					K. Strycharz	2
					M. Borysiewicz	2
					P. Gierlowski	5
Taliansko					F. Giannazzo	4
					L. Soldati	3
					R. Tebano	3
Počet prijatí spolu					**12**	**44**

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Česko	COMSOL	Mykola Soloviov	3
	Heyrovský	Martin Hulman	5
		Viera Skákalová	5
	Nanocon 2025	Tibor Izsák	4
		Marian Varga	4
	OPERA COST 2025	Miriam Krettová	4
	Rozhovory	Edmund Dobročka	2
	SPM	Ján Šoltýs	3
Dánsko	ATLANT 3D	Boris Hudec	3
		Ivan Kundrata	6
Francúzsko	ESD 2025	Viera Skákalová	7
	ICMHN	Andrii Kozak	6
Japonsko	EM-NANO 2025	Dagmar Gregušová	8
		Javad Keshtar	8
		Milan Ťapajna	8
	IEEE NSS/MIC/RTSD 2025	Bohumír Zaťko	10
	ISPlasma/ICPLANTS 2025	Ján Kuzmík	14
Maďarsko	(U)WBG	Filip Gucmann	3
		Fedor Hrubišák	3
		Roshan Jeevan Chidambaram	3
		Andrii Kozak	3
		Miriam Krettová	3
		Ondrej Pohorelec	3
		Milan Ťapajna	3
		Marian Varga	3
Nemecko	ASD 2025	Boris Hudec	6
		Ivan Kundrata	6

		Helle-Mai Piirsoo	6
Portugalsko	EUCAS 2025	Michal Bennár	5
		Fedor Gömöry	5
		Ján Kováč	5
		Martin Kucharovič	5
		Tomáš Kujovič	7
		Enric Pardo	5
		Eugen Seiler	7
		Marianna Španková	5
	Tribology	Andrii Kozak	5
Rakúsko	IWEPNM 2025	Jana Hrdá	6
		Martin Hulman	6
		Viera Skákalová	6
		Michaela Sojková	6
Slovinsko	CHIROMAG 2025	Juraj Feilhauer	4
Španielsko	ANIMMA	Bohumír Zaťko	6
	Sol-SkyMag 2025	Sergei Krylov	3
		Iuliia Vetrova	3
	WOCSDICE - EXMATEC 2025	Ondrej Pohorelec	6
Švajčiarsko	CCA 2025	Fedor Gömöry	6
		Arif Hussain	6
		Martin Kucharovič	6
		Tomáš Kujovič	6
		Eugen Seiler	6
		Mykola Soloviov	6
	HiTAT-2	Fedor Gömöry	5
Švédsko	ICNS-15 2025	Roman Stoklas	6
Taliansko	EURO CVD & ALD 24 2025	Ivan Kundrata	8
		Michal Pecz	8
	EuroCVD 2025	Helle-Mai Piirsoo	18
	Graphene Week 2025	Jana Hrdá	5
		Lenka Pribusová Slušná	5
		Michaela Sojková	5
Turecko	ICSM ICQMT 2025	Fridrich Egyenes	9
	SensDeTec 2025	Filip Gucmann	6
Veľká Británia	IEPC 2025	Anang Dadhich	6
	EFATS2025	Enric Pardo	6
	MEMRISYS 2025	Natalia Kamila Calvo	5
		Diego Guglielmi De Bellis	5
		Boris Hudec	5
	UWO 2025	Filip Gucmann	3
		Fedor Hrubišák	3
Spolu	**33**	**69**	**381**

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

Skratky použité v tabuľke C:

IEPC 2025 - 39th International Electric Propulsion Conference
(U)WBG - Workshop on (U)WBG semiconductor materials and devices
ANIMMA - 9th international conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications 2025
ASD 2025 - The Area Selective Deposition Workshop 2025
ATLANT 3D - ATOMHAGEN 2025
CCA 2025 - International Workshop on Coated Conductor for Applications
CHIROMAG 2025 - CHIROMAG: First General COST-Action Meeting and Workshop
COMSOL - Konference COMSOL Multiphysics 2025
EFATS2025 - 5th International Workshop on Cryogenic Electric Powertrains
EM-NANO 2025 - 10th International Symposium on Organic and Inorganic Electronic Materials and Related Nanotechnologies
ESD 2025 - 8th Workshop on Electron and Spin Dynamics
EUCAS 2025 - 17th European Coference on Applied Superconductivity
EURO CVD & ALD 24 2025 - 24th International Conference in the biennial series of EuroCVD & ALD
EuroCVD 2025 - 24th Conference EuroCVD
Graphene Week 2025 - 20th edition of Graphene Week
Heyrovský - 56th Heyrovský Discussions
HiTAT-2 - 2nd High Temperature Superconductor Accelerator Technology Workshop
ICMHN - 8th International Conference on Multifunctional, Hybrid and Nanomaterials
ICNS-15 2025 - 15th International Conference on Nitride Semiconductors
ICSM ICQMT 2025 - 10th International Conference on Superconductivity and Magnetism Fethiye-Oludeniz between 26th April to 3rd May 2025. In addition, the 3rd International Conference on Quantum Materials and Technologies
IEEE NSS/MIC/RTSD 2025 - IEEE Nuclear Science Symposium, Medical Imaging Conference, and Room Temperature Semiconductor Detectors Symposium
ISPlasma/ICPLANTS 2025 - 17th International Symposium on Advanced Plasma Science and its Applications for Nitrides and Nanomaterials and 18th International Conference on Plasma-Nano Technology & Science
IWEPNM 2025 - 37th International Winterschool on Electronic Properties of Novel Materials
MEMRISYS 2025 - 8th International Conference on Memristive Materials, Devices & Systems
Nanocon 2025 - 17th International Conference on Nanomaterials - Research & Application
OPERA COST 2025 - OPERA COST Action Training School 2025. Applications and Characterization of Epitaxial Materials
Rozhovory - 312. Rozhovory o aktuálních otázkách v rentgenové, neutronové a elektronové strukturní analýze
SensDeTec 2025 - International Conference on Sensor, Detector, Materials Science and Technologies
Sol-SkyMag 2025 - 9 th International Conference on Nanomagnetism and Spintronics
SPM - SPM workshop 2025
Tribology - Tribology international conference 2025
UWO 2025 - Ultra-wide bandgap oxides
WOCSDICE - EXMATEC 2025 - 48th Workshop on Compound Semiconductor Devices and Integrated Circuits held in Europe 19th 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.		PB	Noc Vedy: Cesta k Tuhým látkam a Tuhých látok: Od obrovského odporu po hlboký vzťah	Gymnázium, Metodova ul.	2.12.2025
Mgr. Juraj Feilhauer, PhD.		PB	ScienceSlam: Z polí kremíka na lúky magnetizmu	https://www.youtube.com/watch?v=A45EfpRg150	29.4.2025
doc. Ing. Fedor Gömöry, DrSc.		PB	Supravodivosť - prednáška pre stredoškolákov	Bratislava	21.5.2025
doc. Ing. Fedor Gömöry, DrSc.		PB	Supravodivosť - prednáška pre stredoškolákov	Bratislava	28.5.2025
Ing. Tomáš Kujovič, PhD.	M. Kucharovič	PB	Science-enterTainment-you 2025	Bratislava	27.5.2025
Ing. Tomáš Kujovič, PhD.	O. Pohorelec, M. Kucharovič	PB	MiniErazmus 2025	Bratislava	25.11.2025
Mgr. Eugen Seiler, PhD		PB	Supravodivosť - prednáška a ukážky levitácie	ZŠ Břeclav	28.5.2025
Ing. Michal Sobota, PhD.		PB	Noc Vedy: Bratislava - V-klub	https://www.nocvedy.sk/bratislava/	26.9.2025
Ing. Michal Sobota, PhD.		PB	Noc Vedy: Navštív svoju školu – Spoznaj svojho vedca	SPŠE, ul. K. Adlera, Bratislava	12.12.2025
Ing. Tomáš Ščepka, PhD.	J. Šoltýs, I. Vetrova, L. Frolek, M. Precner, M.. Sobota	PB	Noc vedy	Bratislava	26.9.2025
Ing. Ján Šoltýs, PhD		TL	Neviditeľné nanopero	Quark	1.7.2025

[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 2025

Domáce ocenenia

Ocenenia SAV

Hrdá Jana
Špičková publikácia
Oceňovateľ: SAV
Opis: kategoria Nature Index

Hutár Peter
Špičková publikácia
Oceňovateľ: SAV
Opis: kategoria Nature Index

Iné domáce ocenenia

Ahmad Faizan
1st place, Best Young Researcher Contribution Contest
Oceňovateľ: SURFINT-SREN 2025
Opis: Prvé miesto v súťaži doktorandov s ústnym príspevkom na konferencii.

Calvo Natalia Kamila
Čestné uznanie v súťaži študentov
Oceňovateľ: ADEPT 2025

Hrubišák Fedor
Študentská osobnosť Slovenska 2024/2025
Oceňovateľ: Junior Chamber International – Slovakia
Opis: Prvé miesto v kategórii Elektrotechnika a priemyselné technológie

Chouhan Hemendra
Čestné uznanie v súťaži študentov
Oceňovateľ: ADEPT 2025

Krajčovičová Timea Ema
Súťaž študentov
Oceňovateľ: ADEPT 2025

Ščepka Tomáš
Best presentation award
Oceňovateľ: IEEE NAP Conf.
Opis: Cena za najlepšie vývesku

Medzinárodné ocenenia

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