

Elektrotechnický ústav SAV, v. v. i.



**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 zamestnanci¹)	26	19	7	10	5	25	12.38	11.54	1
Odborní pracovníci VŠ (ostatní zamestnanci²)	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 zborech)

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 zborech)

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 administratívne, 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 organizáciu	Spolu	Pre organizáciu		
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 Excellence, 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 Kosterlitz-Thoulessa opisuje kontinuálny dvojrovňový 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 teplote 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 EIÚ SAV k tejto práci bol zásadný, keďže metóda prípravy takých vzoriek bola vyvinutá a aj vzorky samotné boli syntetizované na EIÚ 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 (CO₂, NO_x, a vodná para vo vysokých nadmorských výškach). Elektrické lietadla využívajúce vodík ako palivo sú schopné generovať nulové CO₂ emisie a ak je elektrina generovaná na palube pomocou palivových článkov, nevytvárajú ani NO_x 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 konferenciách 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 EIÚ, 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 $\sim 20 \mu\text{m}$ 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-kábllov 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. - WOZNIAC, Marek - PUTTI, M. - BRESCHI, M. Numerical and experimental investigation of AC losses in MgB_2 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 MgB_2 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 MgB_2 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) $\beta\text{-Ga}_2\text{O}_3$ 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., Hrubíšák, F., Sobota, M., Šiffalovič, P., Gregušová, D., Pohorelec, O., Wosko, M., Paszkiewicz, R., a Guemann, 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. Wrocław University of Science and Technology, Faculty of Electronics, Photonics and Microsystems, Janiszewskiego 11/17, Wrocław 50-370, Poland

Súvisiaci medzinárodný projekt:

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

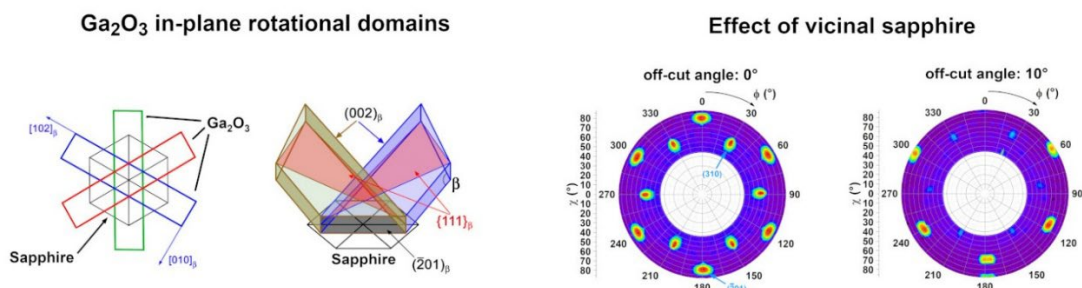
Popis:

Monoklinický oxid galitý (β -Ga₂O₃) predstavuje perspektívny materiál pre vysokovýkonové a vysokonapäťové elektronické súčiastky. Homoepitaxné β -Ga₂O₃ vrstvy vykazujú vynikajúcu kryštalografickú kvalitu, avšak ich využitie je obmedzené problémami so škálovateľnosťou, vysokou cenou substrátov a nedostatočným odvodom stratového tepla. Na druhej strane heteroepitaxný rast na priemyselne kompatibilných 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 -Ga₂O₃ vrstvy na zafirových 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 prekursorov (LI-MOCVD). Na rozdiel od predchádzajúcich prác sme nepozorovali 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 -Ga₂O₃ 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 -Ga₂O₃ 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 šesticte rotačných domén (3 orientácie v pôdoryse a 2 možné náklony zŕn pre každú orientáciu) – vľavo. Pólové obrazce získané technikou RTG difrakcie pre Ga₂O₃ pre vrstvy rastené metódou MOCVD na zafirových 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 - ĽAPAJNA, Milan - HUŠEKOVÁ, Kristína - CORA, Ildikó - ROSOVÁ, Alica - MIKOLÁŠEK, M. - EGYENES, Fridrich - KESHTKAR, Javad - HRUBIŠÁK, Fedor - SOBOTA, Michal - ŠIFFALOVÍČ, Peter - GREGUŠOVÁ, Dagmar - POHORELEC, Ondrej - WOSKO, M. - PASZKIEWICZ, R. - GUCMANN, Filip**. Rotational domains and origin of improved crystal quality in heteroepitaxial (201) β -Ga₂O₃ 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/ doplňky 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, ADN B)	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) <i>Počet článkov / doplnky</i>	17 / 0	15 / 0	4 / 0	5 / 0	41 / 0
Podľa SJR z r. 2024 (zdroj Scimago) <i>Počet článkov / doplnky</i>	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

- 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.
- 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.
- Gucmann, F., Hušeková, K., Dobročka, E., Nádaždy, P., Zápražný, Z., Gregušová, D., Rosová, A., Egyenes, F., Sobota, M., Pohorelec, O., Kozak, A., Keshtkar, J., Hrubíšák, 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.
- Hudec, B.: DALP as an enabler for bottom-up fabrication of neuromorphic sensors. In: ATOMHAGEN 2025. Kodaň 2025.
- Hudec, B., Horský, M., Dehghan, M., Ščepka, T., Krylov, S., Stoklas, R., Patrnčíak, M., and Pleceník, 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 MoS₂/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.: MoS₂ and WS₂ 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.: MoS₂ and WS₂ synthesized in graphene oxide at ambient conditions. In: IEEE 15th Inter. Conf. "Nanomaterials: Applications & Properties" (IEEE NAP-2025). Bratislava 2025.
11. Ľapajna, M., Egyenes, F., Hrubíšák, F., Hušeková, K., Dobročka, E., Rosová, A., Vincze, A., Moško, M., and Gucmann, F.: Transport and thermal properties of heteroepitaxial Ga₂O₃ MOSFETs grown by liquid-injection MOCVD. In: IEEE 15th Inter. Conf. "Nanomaterials: Applications & Properties" (IEEE NAP-2025). Bratislava 2025.
12. Ľapajna, M., Egyenes, F., Hrubíšák, F., Hušeková, K., Dobročka, E., Nadáždý, P., Rosová, A., and Gucmann, F.: Heteroepitaxy of Ga₂O₃ 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, Tóvik 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: Zat'ko 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. Účast' 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
Tóbbik Jaroslav	VEGA	1

2.9. Účast' 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
Tóvik 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 sympóziu 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 prísomnému recenznému konaniu a kvalitné práce boli odporúčané na publikovanie v IEEE Xplore Digital Library (indexované v Scopus, podlieha schváleniu IEEE).

Usporiadáním IEEE NAP-2025 sa Bratislava stala miestom stretnutia globálnej komunity nanomateriálov a ponúka 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
Zat'ko 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 komitétach 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 mobilitě 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 priečných štruktúr z memristorov

Zadávatel' 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

Zadávatel' 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 hodnotu
MSc. Arif Hussain	interné štúdium hraené 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	Mesiace, rok nástupu na DŠ	Mesiace, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu

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 hodnotu 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 odznali 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 študentov 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 stredoškôľakov

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: EIÚ 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: EIÚ 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: EIÚ 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: EIÚ 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: EIÚ 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: EIÚ 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 Tóvik, 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 dvojdnový 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-rozlíšenu 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.

EIÚ SAV spoluorganizoval seminar “[Inovácie v tepelnom manažmente pre modernú výkonovú elektroniku](#),” ktorý sa uskutočnil dňa 19. februára 2025 sa na EIÚ 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 EIÚ 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 samosprávu

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 vládnyimi 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. 1 pre 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 Ľapajna, PhD.

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

Ing. Jaroslav Tóvik, PhD.

- Komisia fyzika kondenzovaných látok a akustika (člen)

Mgr. Bohumír Zat'ko, 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

EIÚ SAV dodržiava pri náboře 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 postdoktorandiek a 1 inžinierskeho pracovníka.

Uved'te stručnú charakteristiku a hodnotenie aktivít v oblasti HRS4R.

10.2. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

Na EIÚ 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 Excellence, TANDEM	0	0	0	0	0	0
10. Iné projekty	0	0	0	0	0	0

10.2.2. Výskum zameraný na rodovú problematiku

Uvedte 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.

Uved'te 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 EIÚ 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 EIÚ SAV zasadala v roku 2025 celkovo 3x.

Správna rada zasadala k schvaľovaniu Správy o činnosti EIÚ SAV, vstupu EIÚ SAV do ZZPO Brainest a k nákupom investičných zariadení. Podklady zaslala na schálenie Dozornej rade EIÚ SAV, resp. Predsedníctvu SAV.

11.2. Vedecká rada - zloženie a základná informácia o činnosti

V roku 2025 pracovala Vedecká rada EIÚ 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 stretnutie Akademickej obce pri výbere kandidáta na funkciu riaditeľa.

Vedecká rada EIÚ SAV zasadala v roku 2025 celkovo 5x + 1x pri peľežitosti ročného hodnotenia práce doktorandov, 3x zasadnutie akademickej obce.

Uved'te 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

Uved'te stručné, základné informácie k problematike.

11.5. Zmeny zakladacej listiny, vnútorných predpisov organizácie alebo zakladateľa

Žiadne

Uved'te 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 EIÚ 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

EIÚ 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 EIÚ 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 vykázat' zvýšené plnenie iných parametrov. Vedenie spolu s VR EIÚ 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

EIÚ 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 EIÚ SAV na podujatí zastupoval Milan Ťapajna. Okrem FEI STU a EIÚ 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 sprostredkovať 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/gDITcND/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->

Hostovanie delegácie z Litvy

Dňa 28. októbra 2025 privítal Elektrotechnický ústav SAV, v.v.i. (EIÚ 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 Vilniuskej 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), EIÚ 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 EIÚ SAV so SPŠE Adlera a SPŠE Hálova na projektovom vyučovaní – Individuálne projekty študentov SŠ na EIÚ SAV
- Participácia zamestnancov EIÚ 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 EIÚ SAV na výučbe odborných predmetov stredných odborných škôl SPŠE Adlera a SPŠE Hálova. Od septembra 2025 sa v rámci projektu EIÚ 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, EIÚ SAV a PSAV sa dňa 12.9.2025 riadnym členom združenia stala aj SAV (ÚSAV).

Otvorenie Vedeckej kaviarne na EIÚ SAV

Dňa 18. februára 2025 sme na EIÚ SAV slávnostne otvorili Vedeckú kaviareň – nový priestor, ktorý spojí vedu, kolegiálnu 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

Uved'te 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

Uved'te 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 Piš, 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 vzděláním (výzkumní a vývojoví zaměstnanci)			
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 Hrubíšák	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 Kunderata	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 vzděláním (ostatní zaměstnanci)			

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 Židuljak	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 hrazení z prostředků 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 hrazení z jiných zdrojů			
1.	Ing. Fedor Hrubíšák	Fakulta elektrotechniky a	2675 elektrotechnika

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

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., Hrubíšák, F., Sobota, M., Šiffalovič, P., Gregušová, D., Pohorelec, O., Wosko, M., Paszkiewicz, R., and Guemann, F.: Rotational domains and origin of improved crystal quality in heteroepitaxial (201) β -Ga₂O₃ films grown on vicinal substrates by MOCVD, *J. Alloys Compounds* 1044 (2025) 184481.

Programy: COST

2.) Magnetizmus a chiralita: točivé spiny, svetlo, a kryštalické mriežky pre rýchlejšiu spintróniku (*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 Guemann
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 Temperatures*)

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 γ -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 power modules and joint reserch of GaN and Ga₂O₃ power devices*)

Zodpovedný riešiteľ: Milan Ľapajna
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 Gučmann
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*

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., Mikolášek, M., Precnerová, M., Švec, P.Jr., Nádaždy, P., Mičky, S., Zubair, M., Šiffalovič, P., and Fröhlich, 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., Gušneren, A., Hudec, B., Mičušík, M., Švec, P.Jr., Precnerová, M., Nada, A., Lenčes, 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 áno
koordinátorom projektu:
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 áno
koordinátorom projektu:
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 áno
koordinátorom projektu:
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-Carballera, 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 áno
koordinátorom projektu:
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 heteroštruktúry ako platforma pre multifunkčné zariadenia (*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 nie
koordinátorom projektu:
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., Ožga, M., Gierłowski, P., and Cieplak, M.Z.: Strain-induced inhomogeneity of the superconducting state in

strongly underdoped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ thin films, J. Applied Phys. 138 (2025) 123907.

11.) Tepelný manažment elektronických a optoelektronických súčiastok na báze Ga_2O_3 (*Thermal management in Ga_2O_3 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., Wu, D.-S., Järrendahl, K., Hsiao, C.-L., Dobročka, E., Ťapajna, M., Guemann, 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., Hrubíšák, F., Sobota, M., Šiffalovič, P., Gregušová, D., Pohorelec, O., Wosko, M., Paszkiewicz, R., and Guemann, 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 superconducting 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., Jørgensen, 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 AlGaIn/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 áno
koordinátorom projektu:
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., Hrubíšák, 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 -Ga₂O₃ 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., Wu, 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 áno
koordinátorom projektu:
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 MoS₂ 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, L., Eliáš, E., Dobročka, E., Hulman, M., Mosnáček, J., and Ľapajna, 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., Maňko, M., Vretenar, V., Píš, I., Bondino, F., Ľapajna, M., and Gregušová, D.: Investigating Ohmic contacts in PtSe₂-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 fotovoltaiiku (*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 optoelectronic 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.: Photoluminescence 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 high temperature 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., Ožga, M., Gierłowski, P., and Cieplak, M.Z.: Strain-induced inhomogeneity of the superconducting state in strongly underdoped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ 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 Ľapajna
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., Matko, M., Vretenar, V., Píš, I., Bondino, F., Ľapajna, 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 Ľapajna, 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 Ľapajna
Trvanie projektu: 1.7.2025 / 30.6.2028
Evidenčné číslo projektu: SK-TW-RD-24-0006
Organizácia je áno
koordinátorom projektu:
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., Ľapajna, M., Hušeková, K., Cora, I., Rosová, A., Mikolášek, M., Egyenes, F., Keshtkar, J., Hrubíša, 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-Ga₂O₃ 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 áno
koordinátorom projektu:
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., Hladík, 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 fabrication 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 hybridných detektoroch (*Growth and 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 fabrication 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 Chromík
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., Mošat', 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., Mikolášek, M., Precnerová, M., Švec, P.Jr., Nádaždy, P., Mičky, S., Zubair, M., Šiffalovič, P., and Fröhlich, 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., Lenčes, 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 Ľapajna, 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., Manzharova, V.S., Bratus, V.Y., Ivashchenko, V.I., Ivashchenko, L.A., Orovčík, L., 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.

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

Maksakova O., Smyrnova K., Ludrovcová B., Sahul M., Haršani 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.

Konferenčný príspevok: Kozak, A., Sojtková, M., Hrdá, J., Hulman, M., and Ľapajna, M.: Friction of the PtSe₂ layers with different grain sizes in ambient air and vacuum. In: *Tribology international conference 2025*. AlBuFeira (Portugal) 2025.

Konferenčný príspevok: Kozak, A., Precner, M., Halim, J., Orovčík, L., Hudec, B., Mičušík, M., and Ľapajna, M.: Tribological properties of Ti₃C₂Tx 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 MgB₂ 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 MgB₂ 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 spintrónické 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 áno
koordinátorom projektu:
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 áno
koordinátorom projektu:
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., Hrubíšák, F., Sobota, M., Šiffalovič, P., Gregušová, D., Pohorelec, O., Wosko, M., Paszkiewicz, R., and Guemann, F.: Rotational domains and origin of improved crystal quality in heteroepitaxial (201) β -Ga₂O₃ 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.) Nízкотеплотné 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
Evidenčné číslo projektu: 24182002
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 6568 €

Dosiahnuté výsledky:

Publikačná činnosť organizácie

Príloha je generovaná z ARL.

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>
- ADCA02 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>
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ADCA31

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2. [1.1] JIA, R.L. - ZHOU, W.H. - LIANG, R. - SU, B.X. - HU, Z.W. *Study on the response of the winding direction of multi-layer CORC cable to its electromagnetic characteristics*. In *JOURNAL OF APPLIED PHYSICS*. ISSN 0021-8979, JUL 14 2024, vol. 136, no. 2, art. no. 023902. Dostupné na: <https://doi.org/10.1063/5.0219679>, Registrované v: WOS
3. [1.1] OTTEN, S. - GACNIK, D. - BRUGGENWIRTH, S. - LEFERINK, J. - DHALLÉ, M. - TEN KATE, H.H.J. - DÖNGES, S.A. - WEISS, J.D. - RADCLIFF, K. - VAN DER LAAN, D.C. - ROUQUETTE, J.F. - RIVENC, J. - NILSSON, E. *Calculation and Measurement of Transport AC Loss of ReBCO CORC Cables for Electric Aircraft*. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, MAY 2024, vol. 34, no. 3, art. no. 4703605. Dostupné na: <https://doi.org/10.1109/TASC.2024.3364120>, Registrované v: WOS
4. [1.1] PETROV, A. - YANG, J.B. *AC Loss Modeling of a CORC Cable via an Analytical Equation and Finite Elements*. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. ISSN 1051-8223, MAY 2024, vol. 34, no. 3, art. no. 5900405. Dostupné na: <https://doi.org/10.1109/TASC.2023.3338199>, Registrované v: WOS

ADMB20 ŤAPAJNA, Milan - HUŠEKOVÁ, Kristína - POHORELEC, Ondrej - VÁLIK, Lukáš - HAŠČÍK, Štefan - GUCCMANN, Filip - FRÖHLICH, Karol - GREGUŠOVÁ, Dagmar - KUZMÍK, Ján. Effect of HCl pretreatment on the oxide/semiconductor interface state density in AlGaIn/GaN MOS-HEMT structures with MOCVD grown Al₂O₃ gate dielectric. In *ASDAM 2016 : the 11th International Conference on Advanced Semiconductor Devices and Microsystems*. - IEEE, 2016, p. 207-210. ISBN 978-1-5090-3081-1. Dostupné na: <https://doi.org/10.1109/ASDAM.2016.7805931>

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1. [1.1] SAHA, C.N. - VAIDYA, A. - NIPU, N.J. - MENG, L.Y. - YU, D.S. - ZHAO, H.P. - SINGISETTI, U. *Thin channel Ga₂O₃ MOSFET with 55 GHz f_{MAX} and " V breakdown*. In *APPLIED PHYSICS LETTERS*. ISSN 0003-6951, AUG 5 2024, vol. 125, no. 6, art. no. 062101. Dostupné na: <https://doi.org/10.1063/5.0208580>, Registrované v: WOS

ADMB21 ZÁPRAŽNÝ, Zdenko** - KORYTÁR, Dušan - JERGEL, Matej - HALAHOVETS, Yuriy - MAŤKO, Igor - ŠIFFALOVIC, Peter - KEČKÉŠ, Jozef - MIKULÍK, P. - MAJKOVÁ, Eva - THI, T.N.T. Study of surface quality and subsurface damage of germanium optics produced by single point diamond nanomachining. In *Proceedings of the SPIE : EUV and X-ray Optics: Synergy between Laboratory and Space VI*, 2019, vol. 11032, no. 110320E. (2018: 0.238 - SJR). ISSN 0277-786X. Dostupné na: <https://doi.org/10.1117/12.2520970>

Citácie:

1. [1.2] LAWING, Eann - TUNESI, Michele - ESTES, Colton - GASSON, John - DUTTERER, Brian S. - LUCCA, Don A. - DAVIES, Matthew A. *Mechanics and surface characterization of high-speed diamond turning of germanium*. In *Procedia CIRP*, 2024-01-01, 123, pp. 328-333. ISSN 22128271. Dostupné na: <https://doi.org/10.1016/j.procir.2024.05.058>, Registrované v: SCOPUS

ADMB22 ZATKO, Bohumír** - HRUBČÍN, Ladislav - BOHÁČEK, Pavol - GUROV, Y.B. -

ROZOV, S.V. - EVSEEV, S.A. - BULAVIN, M.V. - ZAMIATIN, N.I. - KOPYLOV, Y.A. - SEKÁČOVÁ, Mária - KOVÁČOVÁ, Eva. Spectrometric performance of 4H-SiC detectors after neutron irradiation. In AIP Conference Proceedings : Applied Physics of Condensed Matter (APCOM 2022), 22–24 June 2022, Štrbské Pleso, Slovak Republic, 2023, vol. 2778, no. 060012. (2022: 0.164 - SJR). (2023 - WOS, SCOPUS). ISSN 0094-243X. Dostupné na: <https://doi.org/10.1063/5.0135875>

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1. [1.1] LONG, Z. - XIA, X.C. - JIANG, W. - JING, H.T. - ZOU, X.B. - SHI, X. - NIU, M.C. - LIANG, H.W. - FAN, R.R. Neutron irradiation and polarization effect of 4H-SiC Schottky detector. In NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. ISSN 0168-9002, JUL 2024, vol. 1064, art. no. 169326. Dostupné na:

<https://doi.org/10.1016/j.nima.2024.169326>, Registrované v: WOS

ADMB23

ZEHEHNER, J. - VANKO, Gabriel - DZUBA, Jaroslav - RÝGER, Ivan - LALINSKÝ, Tibor - BENKLER, M. - LUCKI, M. Laser ablation for membrane processing of AlGaN/GaN- and micro structured ferroelectric thin film MEMS and SiC pressure sensors for extreme conditions. In Proceedings of the SPIE, 2015, vol. 9517, 951721. (2014: 0.237 - SJR). (2015 - SCOPUS, WOS). ISSN 0277-786X. Dostupné na: <https://doi.org/10.1117/12.2179041>

Citácie:

1. [1.1] JIANG, K.R. - ZHANG, P.L. - SONG, S.J. - SUN, T.Z. - CHEN, Y. - SHI, H.C. - YAN, H. - LU, Q.H. - CHEN, G.L. A review of ultra-short pulse laser micromachining of wide bandgap semiconductor materials: SiC and GaN. In MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING. ISSN 1369-8001, SEP 2024, vol. 180, art. no. 108559. Dostupné na:

<https://doi.org/10.1016/j.mssp.2024.108559>, Registrované v: WOS

2. [1.1] WANG, Q.J. - ZHANG, R. - CHEN, Q.K. - DUAN, R. A Review of Femtosecond Laser Processing of Silicon Carbide. In MICROMACHINES. MAY 2024, vol. 15, no. 5, art. no. 639. Dostupné na:

<https://doi.org/10.3390/mi15050639>, Registrované v: WOS

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

ADNA01

BEZÁK, Viktor - KREMPASKÝ, Július. A phenomenological theory of thermal conductivity of thin films. In Czechoslovak journal of physics, 1968, vol. 18, p. 1264. ISSN 0011-4626.

Citácie:

1. [1.1] ELSAFI, B. Contribution of surface scattering to the GMR effect in the magnetic multilayer films. In INDIAN JOURNAL OF PHYSICS. ISSN 0973-1458, SEP 2024, vol. 98, no. 10, p. 3469-3474. Dostupné na:

<https://doi.org/10.1007/s12648-024-03130-6>, Registrované v: WOS

2. [1.1] ELSAFI, B. Interfacial random roughness effects on the magnetoresistance of Co-Cu metallic superlattices. In PHYSICA B-CONDENSED MATTER. ISSN 0921-4526, MAR 15 2024, vol. 677, art. no. 415713. Dostupné na: <https://doi.org/10.1016/j.physb.2024.415713>, Registrované v: WOS

3. [1.1] ELSAFI, B. Tailoring the Magnetic Properties of Giant Magnetoresistance Multilayers via Modification of Ultrathin Non-Magnetic Spacer Thickness. In JOURNAL OF ELECTRONIC MATERIALS. ISSN 0361-5235, JUN 2024, vol. 53, no. 6, SI, p. 2852-2860. Dostupné na:

<https://doi.org/10.1007/s11664-024-10982-5>, Registrované v: WOS

4. [1.1] ELSAFI, B. Theoretical characterization of the magnetoresistance in magnetic multilayers with antiferromagnetic coupling. In *PHYSICA B-CONDENSED MATTER*. ISSN 0921-4526, SEP 1 2024, vol. 688, art. no. 416162. Dostupné na: <https://doi.org/10.1016/j.physb.2024.416162>, Registrované v: WOS

ADNA02 CAMBEL, Vladimír - GREGUŠOVÁ, Dagmar - ELIÁŠ, Peter - FEDOR, Ján - KOSTIČ, Ivan - MAŇKA, Ján - BALLO, P. Switching magnetization magnetic force microscopy - an alternative to conventional lift-mode MFM. In *Journal of Electrical Engineering*, 2011, vol. 62, p. 37-43. (2010: 0.278 - IF, Q4 - JCR, 0.191 - SJR, Q3 - SJR). (2011 - INSPEC, SCOPUS). ISSN 1335-3632.

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1. [1.1] VERHAGE, Michael - CIFTCI, H. Tunc - REUL, Michiel - CROMWIJK, Tamar - VAN STRALEN, Thijs J. N. - KOOPMANS, Bert - KURNOSIKOV, Oleg - FLIPSE, Kees. Switchable-magnetization planar probe MFM sensor for imaging magnetic textures of complex metal oxide perovskite. In *JOURNAL OF APPLIED PHYSICS*, 2024, vol. 136, no. 18, pp. ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/5.0234117>, Registrované v: WOS

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ADNA03 HURAN, Jozef - VALOVIČ, Albín - KUČERA, Michal - KLEINOVÁ, Angela - KOVÁČOVÁ, Eva - BOHÁČEK, Pavol - SEKÁČOVÁ, Mária. Hydrogenated amorphous silicon carbon nitride films prepared by PECVD technology: properties. In *Journal of Electrical Engineering*, 2012, vol. 65, p. 333-335. (2011: 0.370 - IF, Q4 - JCR, 0.160 - SJR, Q3 - SJR). (2012 - INSPEC, SCOPUS). ISSN 1335-3632. Dostupné na: <https://doi.org/10.2478/v10187-012-0049-z>

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ADNA04 MIKOLÁŠEK, M.** - KEMENY, M. - CHYMO, F. - ONDREJKA, P. - HURAN, Jozef. Amorphous silicon PEC-PV hybrid structure for photo-electrochemical water splitting. In *Journal of Electrical Engineering*, 2019, vol. 70, p. 107-111. (2018: 0.636 - IF, Q4 - JCR, 0.200 - SJR, Q3 - SJR). (2019 - SCOPUS, WOS). ISSN 1335-3632. Dostupné na: <https://doi.org/10.2478/jee-2019-0050>

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1. [1.1] ZHAO, N. - WANG, J.J. Solar full spectrum management in low and medium temperature light-driven chemical hydrogen synthesis- A review. In *RENEWABLE & SUSTAINABLE ENERGY REVIEWS*. ISSN 1364-0321, MAY 2024, vol. 196, art. no. 114368. Dostupné na: <https://doi.org/10.1016/j.rser.2024.114368>, Registrované v: WOS

*AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách

AEC01 JURKOVIČ, Michal - HUŠEKOVÁ, Kristína - ČIČO, Karol - DOBROČKA, Edmund - NEMEC, M. - FEDOR, Ján - FRÖHLICH, Karol. Characterization of high permittivity GdScO₃ films prepared by liquid. In *ASDAM 2010 : proceedings of the 8th International Conference on Advanced Semiconductor Devices and*

Microsystems. Eds. J. Breza, D. Donoval and E. Vavrinský. - Piscataway : IEEE, 2010, p. 247-250. ISBN 978-1-4244-8572-7.

Citácie:

1. [1.1] TAHERIAN, A. - COOKE, J. - SCHUBERT, M. - SENSELE-RODRIGUEZ, B. *Anisotropic quasi-static permittivity of rare-earth scandate single crystals measured by terahertz spectroscopy. In JOURNAL OF APPLIED PHYSICS. ISSN 0021-8979, MAY 7 2024, vol. 135, no. 17, art. no. 173102.*

Dostupné na: <https://doi.org/10.1063/5.0207198>, Registrované v: WOS

AEC02

OSVALD, Jozef. Influence of interface states on C-V characteristics of AlGaIn/GaN heterostructures. In ASDAM 2010 : proceedings of the 8th International Conference on Advanced Semiconductor Devices and Microsystems. Eds. J. Breza, D. Donoval and E. Vavrinský. - Piscataway : IEEE, 2010, p. 167-170. ISBN 978-1-4244-8572-7.

Citácie:

1. [1.1] NAUTIYAL, P. - PANDE, P. - KUNDU, V. - JOSHI, V. - CHATURVEDI, M. *Understanding the trap-induced frequency dispersion in the C-V curve of AlGaIn/GaN hetero-structure. In SEMICONDUCTOR SCIENCE AND TECHNOLOGY. ISSN 0268-1242, MAY 1 2024, vol. 39, no. 5, art. no. 055008.*

Dostupné na: <https://doi.org/10.1088/1361-6641/ad3d04>, Registrované v: WOS

***AED Vedecké práce v domácich recenzovaných vedeckých zborníkoch, monografiách**

AED01

PŘIBIL, Jiří - ZAŤKO, Bohumír - FROLLO, Ivan - DUBECKÝ, František - JURÁŠ, Vladimír. Experiments with application of image reconstruction method based on perspective imaging techniques in x-ray CT mini system. In Proceedings of IWSSIP 2008 : 15th International Conference on Systems, Signals and Image Processing. Editors G. Rozinaj, J. Čepko, P. Trúchly, J. Vrabec, J. Vojtko. - Bratislava : Slovak University of Technology in Publishing House STU, 2008, p. 33-36. ISBN 978-80-227-2856-0. Dostupné na:

<https://doi.org/10.1109/IWSSIP.2008.4604360>

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1. [1.1] WANG, X. - DONG, B.Q. - FENG, X. - HONG, S.X. - HUANG, X.M. *Beam-hardening correction method for quantifying moisture content in cement paste based on X-ray radiography. In CONSTRUCTION AND BUILDING MATERIALS. ISSN 0950-0618, MAR 29 2024, vol. 421. Dostupné na:*

<https://doi.org/10.1016/j.conbuildmat.2024.135742>, Registrované v: WOS

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

AEE01

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

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1. [1.1] JUI, F.S. - ALAM, S. - JARNDAL, A. - GAQUIERE, C. - ALIM, M.A. *Comparative study of electrical investigation for temperature measurement in AlGaIn/GaN HEMT. In JOURNAL OF COMPUTATIONAL ELECTRONICS. ISSN 1569-8025, FEB 2024, vol. 23, no. 1, p. 42-50. Dostupné na:*

<https://doi.org/10.1007/s10825-023-02121-w>, Registrované v: WOS

AFC Publikované príspevky na zahraničných vedeckých konferenciách

- AFC01 FRÖHLICH, Karol - MIČUŠÍK, Matej - DOBROČKA, Edmund - ŠIFFALOVIČ, Peter - GUCMANN, Filip - FEDOR, Ján. Properties of Al₂O₃ thin films grown by atomic layer deposition. In ASDAM 2012 : conference proceedings. Eds. Š. Haščík, J. Osvald. - Piscataway : IEEE, 2012, p. 171-174. ISBN 978-1-4673-1195-3. Dostupné na: <https://doi.org/10.1109/ASDAM.2012.6418575>
Citácie:
1. [1.1] MAHLOUJI, Reyhaneh - ZHANG, Yue - VERHEIJEN, Marcel A. - KARWAL, Saurabh - HOFMANN, Jan P. - KESSELS, Wilhelmus M. M. - BOL, Ageeth A. Influence of High- κ Dielectrics Integration on ALD-Based MoS₂ Field-Effect Transistor Performance. In ACS APPLIED NANO MATERIALS, 2024, vol. 7, no. 16, pp. 18786-18800. Dostupné na: <https://doi.org/10.1021/acsanm.4c02214>, Registrované v: WOS
- AFC02 OSVALD, Jozef. Influence of interface deep traps on capacitance of AlGaIn/GaN heterojunctions. In Physics of Semiconductor Devices : 17th International Workshop on the Physics of Semiconductor Devices 2013. Eds. V.K. Jain, A.R. Verma. - Heidelberg : Springer, 2014, p. 215-217. ISBN 978-3-319-03002-9.
Citácie:
1. [1.1] AHMED, N. - DUTTA, G. Extraction of device parameters from capacitance-voltage characteristics of p-GaN/AlGaIn/GaN HEMT. In MICROELECTRONICS JOURNAL. ISSN 0959-8324, JAN 2024, vol. 143, art. no. 106047. Dostupné na: <https://doi.org/10.1016/j.mejo.2023.106047>, Registrované v: WOS
2. [1.1] AHMED, N. - DUTTA, G. Physics-Based Models of 2DEG Density and Gate Capacitance for p-GaN/AlGaIn/GaN Heterostructure. In IEEE TRANSACTIONS ON ELECTRON DEVICES. ISSN 0018-9383, JUL 2024, vol. 71, no. 7, p. 4093-4101. Dostupné na: <https://doi.org/10.1109/TED.2024.3400755>, Registrované v: WOS
- AFC03 PASKALEVA, A. - HUDEEC, Boris - JANČOVIČ, Peter - FRÖHLICH, Karol. Resistive switching effects in Pt/HfO₂/TiN MIM structures and their dependence on bottom electrode interface engineering. In Proceedings of the 29th International Conference on Microelectronics : MIEL 2014. - IEEE, 2014, p. 285-288. ISBN 978-1-4799-5296-0.
Citácie:
1. [1.1] MIR, K.H. - GARG, T. Effect of annealing conditions on resistive switching in hafnium oxide-based MIM devices for low-power RRAM. In PHYSICA SCRIPTA. ISSN 0031-8949, DEC 1 2024, vol. 99, no. 12, art. no. 125941. Dostupné na: <https://doi.org/10.1088/1402-4896/ad8d19>, Registrované v: WOS

AfD Publikované príspevky na domácich vedeckých konferenciách

- 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>
Citácie:
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>,

AFG Abstrakty príspevkov zo zahraničných konferencií

- AFG01 SAHOO, Prangya Parimita - GÜNEREN, Alper - HUDEC, Boris - MIČUŠÍK, Matej - LENČEŠ, 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 AlGaIn/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 systémy

Počet hodín za semester: 4

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

Ing. Martin Kucharovič, PhD.

Názov semestr. predmetu: Elektromagnetické systémy

Počet hodín za semester: 4

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

Ing. Tomáš Kujovič, PhD.

Názov semestr. predmetu: Elektromagnetické systémy

Počet hodín za semester: 4

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

Mgr. Mykola Soloviov, PhD.

Názov semestr. predmetu: Elektromagnetické systémy

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 systémy

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 Zat'ko	5
					Bohumír Zat'ko	3
Dánsko					Mohammad Dehghan	3
Francúzsko					Bohumír Zat'ko	4
Grécko					Michal Blaho	3
					Ján Kuzmík	3
					Ján Kuzmík	21
					Ján Kuzmík	3
Holandsko					Ján Šoltýs	3
Nemecko					Michal Blaho	2
					Ivan Kunderata	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) Účast' 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 Kunderata	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 Hrubíšák	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 Kunderata	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 Guemann	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 Guemann	3
		Fedor Hrubíšák	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 - Conference 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 Conference 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
 IWEPMN 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 - 9th 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	Typ¹	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 kremika 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 - multimédia, 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: kategória Nature Index

Hutár Peter

Špičková publikácia

Oceňovateľ: SAV

Opis: kategória 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

Hrubíšák 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

Uvádzať v štruktúre: názov ocenenia, udeľujúca inštitúcia, meno a priezvisko ocenennej osoby.

ČASŤ B

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

**Výročná správa o hospodárení organizácie
za rok 2025**

Obsah

19. Základné informácie o hospodárení organizácie
20. Prehľad príjmov a výdavkov
21. Pohyb a konečný stav majetku
22. Opatrenia na odstránenie nedostatkov v hospodárení a správa o plnení opatrení prijatých na odstránenie nedostatkov z predchádzajúceho roku
23. Ďalšie údaje o hospodárení organizácie

[Údaje o spracovaní výročnej správy o hospodárení]

[Stanoviská orgánov v. v. i.]

[Údaje a elektronický podpis riaditeľa organizácie]

PRÍLOHY K ČASTI B

B-1 Ročná účtovná závierka

19. Základné informácie o hospodárení organizácie

(v zmysle §20, ods. 1 zákona č. 431/2002 Z. z. o účtovníctve)

19.1 Prehľad základných finančných ukazovateľov

	K 31. 12. 2025	K 31. 12. 2024
Finančné výsledky (v euro)		
Aktíva	7 538 836,85	5 704 419,57
Neobežný majetok	4 424 689,43	3 121 620,88
Dlhodobý nehmotný majetok	32 795,71	28 491,52
Dlhodobý hmotný majetok	4 391 893,72	3 093 129,36
Dlhodobý finančný majetok		
Obežný majetok	3 112 366,42	2 581 388,69
Zásoby	23 962,90	24 091,99
Dlhodobé pohľadávky		
Krátkodobé pohľadávky	7 437,01	133 920,93
Finančné účty	3 080 966,51	2 423 375,77
Časové rozlíšenie	1 781,-	1 410,-
Pasíva	7 538 836,85	5 704 419,57
Vlastné imanie	611 916,54	488 670,77
Základné imanie	154 400,16	154 400,16

Fondy tvorené zo zisku	28 200,-	14 900,-
Nevysporiadaný HV minulých rokov	306 070,61	279 766,90
Výsledok hospodárenia za účtovné obdobie	123 245,77	39 603,71
Závazky	32 048,24	346 258,87
Zúčtovanie medzi subjektami VS (2024)		96 504,-
Dlhodobé záväzky	8 484,73	12 622,01
Krátkodobé záväzky	23 563,51	332 666,56
Bankové úvery a iná výpomoci a pôžičky		
Časové rozlíšenie	6 894 872,07	4 869 489,93
Výkaz ziskov a strát		
Výsledok hospodárenia z hlavnej činnosti pred		
Tržby z predaja tovarov a služieb	486 153,09	280 292,89
Iné ostatné výnosy	2 907,56	2 539,36
Dotácie	5 380 232,30	4 363 458,37
Transfery (2024)	479 010,75	541 561,03
Prijaté príspevky od právnických osôb		
Celkové náklady účtovná trieda 5.	6 221 572,32	5 143 735,19
Výsledok hospodárenia pred zdanením		
Výsledok hospodárenia pred zdanením	126 731,38	44 116,46
Výsledok hospodárenia po zdanení	123 245,77	39 603,71
Pomerové ukazovatele		
.. Rentabilita aktív (ROA)	1,63	1,06
Rentabilita vlastného imania (ROE)	20,14	8,10

19.2 Ďalšie informácie o stave a vývoji organizácie z hľadiska hospodárenia

a) Udalosti osobitného významu po 31. 12. 2025 z hľadiska hospodárenia organizácie

Po uzavretí účtovného obdobia kalendárneho roka 2025 nenastali udalosti zásadného významu z hľadiska hospodárenia organizácie.

b) Predpokladaný budúci vývoj organizácie v roku 2026

V zmysle zákona o rozpočtových pravidlách, ktoré stanovujú limit verejných výdavkov na rok, budeme mať problém nevýčerpané prostriedky z roku 2025 použiť v roku 2026. Opätovne budeme žiadať zriaďovateľa o navýšenie limitu, pričom najväčšie problémy nám robia projekty z Plánu obnovy so súkromnou sférou a zahraničný projekt, ktoré v roku 2026 končia.

c) Náklady na činnosť v oblasti výskumu a vývoja

Celková výška nákladov bola 6 221 572,32 € a z toho náklady na činnosť v oblasti výskumu a vývoja boli 6 189 283,70 €. V súlade so zameraním inštitúcie sú všetky náklady v. v. i. vykazované v časti výkazu ziskov a strát účtovnej závierky nákladmi na činnosť v oblasti výskumu a vývoja okrem nákladov spojených s predajom dusíka a hélia.

d) Návrh na rozdelenie zisku alebo vyrovnanie straty:

Ak správna rada nerozhodne inak, tak všetky prostriedky zo zisku sa použijú na tvorbu rezervného fondu. Z nich sa uhradí strata z predchádzajúceho účtovného obdobia a zvyšok zisku sa spravidla delí na tretiny. Jedna tretina zostáva v rezervnom fonde a dve tretiny sa použijú na krytie strát z minulých rokov. Suma sa zaokrúhľuje na 100 € nahor v prospech tvorby rezervného fondu.

Výsledok hospodárenia v roku 2025 zisk	123 245,77
použité RF na vyrovnanie straty za predchádzajúci rok 2024	0
Zostatok zisku z roku 2025 na pomerné delenie	123 245,77
1/3 zostáva v rezervnom fonde (po zaokrúhlení na 100 € nahor)	41 100,-
použitie 2/3 na krytie strát z minulých rokov za rok 2010 a 2022	82 145,77

Pretože zostatok strát z rokov 2010 až 2022 je len 71 922,67 €, čo je menej ako 2/3, tak sa táto strata v plnej výške vykryje z rezervného fondu a zvyšok z výsledku hospodárenia zostane vo fonde.

Výsledok hospodárenia v roku 2025 zisk	123 245,77
použité RF na vyrovnanie straty za predchádzajúci rok 2024	0
Zostatok zisku z roku 2025 na pomerné delenie	123 245,77
zostáva v rezervnom fonde	51 323,10
použitie na krytie strát z minulých rokov za rok 2010 a 2022	71 922,67

e) Ostatné informácie súvisiace s hospodárením v. v. i.

-

f) Informácia o konsolidácii účtovníctva organizácie

Rozpočet organizácie je súčasťou konsolidovaného celku rozpočtovej kapitoly SAV.

20. Prehľad príjmov a výdavkov

(v zmysle § 27, ods. 4, písm. g zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii)

Príjmy a výdavky z hlavnej činnosti

	FP k 01.01.2025	Schválený rozpočet	Upravený rozpočet	Skutočnosť	Zostatok FP k 31.12.2025
1	2	3	4	5	6
Príjmy spolu	2 410 753,76	3675207,00	9832068,41	8857455,36	3072481,78
Z toho:					
ŠR ZDROJ 131	27125,68	0,00			1327,56
ŠR ZDROJ 111 (IFP)		2883641,00	3658413,05	3658413,05	
ŠR ZDROJ 111(0HU0E01)		162121,00	745998,00	745998,00	500000,00
ŠR ZDROJ 111 (APVV)	96504,00	265903,00	468567,00	372363,00	21469,00
ŠR ZDROJ 111(087010H)					
Spolu zo ŠR	123629,68	3311665,00	4872978,05	4776774,05	522796,56
ŠF ZDROJ 3AA1	119419,12				64659,06
ŠF ZDROJ 3AA2	52892,45				10499,28
ŠF ZDROJ 1BA1				131704,58	129653,31
ŠF ZDROJ 1BA2				67342,66	66293,93
PO ZDROJ 1P02			102120,00	111454,51	86135,70
PO ZDROJ 3P01	159541,49		2230839,75	2400149,06	1164101,01
PO ZDROJ 3P02	53266,02		53265,02	705,18	4814,31
Zahraničie ZDROJ 11GR		320000,00	355000,00	248097,48	
Zahraničie ZDROJ 13GR	393289,94		34323,59	34323,59	314450,20
Zahraničie ZDROJ 35	1490611,60		1490000,00	342219,42	555493,63

Vlastné zdroje ZDROJ 46	18103,46	43542,00	693542,00	744684,83	153584,79
Výdavky spolu		3670216,00	9827077,41	8195727,34	
Z toho:					
ŠR ZDROJ 131	x			7806,67	
ŠR ZDROJ 111 (IFP)	x	2883641,00	3658413,05	3657085,49	
ŠR ZDROJ 111(0HU0E01)		162121,00	745998,00	245998,00	
ŠR ZDROJ 111 (APVV)	x	265903,00	468567,00	466717,01	
ŠR ZDROJ 111(087010H)					
Spolu zo ŠR	x	3311665,00	4872978,05	4377607,17	
ŠF ZDROJ 3AA1					
ŠF ZDROJ 3AA2				54760,06	
ŠF ZDROJ 1BA1				42393,17	
ŠF ZDROJ 1BA2				2051,27	
PO ZDROJ 3P01				1048,73	
PO ZDROJ 3P02			102120,00	25318,81	
Zahraničie ZDROJ 11GR			2230839,75	1395589,54	
Zahraničie ZDROJ 13GR			53265,02	49156,89	
Zahraničie ZDROJ 35	x	315009,00	350009,00	60936,01	
Vlastné zdroje ZDROJ 46	x		34323,59	300324,80	

Príjmy a výdavky (v zmysle zákona č. 243/2017 Z. z.)	Príjmy	Výdavky
z hlavnej činnosti okrem druhého a tretieho bodu	8857455,36	8195727,34
činnosti podľa § 2 ods. 1 písm. a) zákona		
činnosti podľa § 2 ods. 1 písm. b) zákona		
činnosti podľa § 2 ods. 1 písm. c) zákona		
činnosti podľa § 2 ods. 1 písm. d) zákona		
činnosti podľa § 2 ods. 1 písm. e) zákona		

21. Pohyb a konečný stav majetku

V oblasti dlhodobého majetku boli prírastky v sume 784 282,01 €. Najvýznamnejšie položky : tester napájania + SW, termostat v hodnote 370 788,66 €, leštiaci a lapovací stroj s príslušenstvom v hodnote 200 047 €. Prenajatý majetok, ktorý bol v podsúvahovej evidencii sme dostali v roku 2025 ako dar a zaradili sme ho do dlhodobého majetku v reálnej cene 27 977,57 €. Úbytok vyradeného majetku bol v hodnote 127 239,28 €.

Majetok

(celkové aktíva brutto)

	2025	2024
Celkové aktíva [€]	21 526 397,92	19 557 479,74
Nárast aktív [%]	10,07	11,12
Pokles aktív [%]		

Štruktúra majetku

(aktíva brutto)

	2025		2024	
	v euro	(%) podiel	v euro	(%) podiel
Dlhodobý nehmotný majetok	132 771,61	0,62	121 124,09	0,62
Dlhodobý hmotný majetok	18 243 770,18	84,75	16 817 848,25	85,99
Dlhodobý finančný majetok				
Dlhodobé pohľadávky				
Krátkodobé pohľadávky	7 437,01	0,03	133 920,93	0,68
Zásoby	59 671,61	0,28	59 800,70	0,31
Dlhodobé pohľadávky				
Finančné účty	3 080 966,51	14,31	2 423 375,77	12,39
Časové rozlíšenie	1781,-	0,01	1410,-	0,01
Aktíva (Majetok brutto)	21 526 397,92	100	19 557 479,74	100

Majetok

(celkové aktíva netto)

	2025	2024
Celkové aktíva [€]	7 538 836,85	5 704 419,57
Nárast aktív [%]	32,16	46,92%
Pokles aktív [%]		

Štruktúra majetku

(aktíva netto)

	2025		2024	
	v euro	(%) podiel	v euro	(%) podiel
Dlhod. nehmotný majetok	32795,71	0,44%	28 491,52	0,50%
Dlhodobý hmotný majetok	4391893,72	58,26%	3 093 129,36	54,22%
Dlhodobý finančný majetok				
Dlhodobé pohľadávky				
Krátkodobé pohľadávky	7437,01	0,10%	133 920,93	2,35%
Zásoby	23962,9	0,32%	24091,99	0,42%
Dlhodobé pohľadávky				
Finančné účty	3080966,51	40,87%	2423375,77	42,48%
Časové rozlíšenie	1781	0,02%	1410	0,02%
Aktíva	7538836,85	100,00%	5704419,57	100,00%

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

(v zmysle § 27, ods. 4, písm. i zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii)

V roku 2023 bol vykonaný štatutárny audit účtovnej závierky, ktorý neidentifikoval nedostatky a neuložil povinnosť prijať opatrenia na odstránenie nedostatkov. V roku 2025 neboli na ústave vykonané externé kontroly.

23. Ďalšie údaje o hospodárení organizácie

(v zmysle § 27, ods. 4, písm. j zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii)

23.1. Výdavky organizácie – štruktúra zdrojov

Tabuľka 23a Výdavky organizácie podľa štruktúry zdrojov (skutočnosť k 31. 12. 2025 v €)

Typ organizácie (v.v.i.)		Zdroje, z ktorých sa kryli jednotlivé výdavky			
Výdavky	Spolu	kapitola SAV (111)	iné štátne a verejné zdroje	ostatné zdroje	% krytia z kapitoly SAV
1. Bežné výdavky	6 414 461,98	3 581 485,49	2 027 189,39	805 787,10	55,83%
z toho: mzdy (610)	3 254 943,01	2 128 101,86	787 289,00	339 552,15	65,38%
vedecká výchova štipendiá (640)	142 781,07	109 548,99	31 754,88	1 477,20	76,73%
poistné a príspevkov do poisťovní (620)	1 174 949,57	755 071,72	292 350,22	127 527,63	64,26%
tovary a služby (630)	1 319 034,07	578 043,92	421 889,48	319 100,67	43,82%
transfery jednotlivcom a partnerom projektov (640)	522 754,26	10 719,00	493 905,81	18 129,45	2,05%
2. Kapitálové výdavky	1 781 265,36	75 611,60	263 639,16	1 442 014,60	4,24%
z toho: obstarávanie kapitálových aktív	1 738 773,76	75 600,00	221 159,16	1 442 014,60	4,35%
kapitálové transfery	42491,6	11,6	42480		0,03%

23.2. Zdroje financovania organizácie

Tabuľka 23b Zdroje financovania organizácie (skutočnosť k 31. 12. 2025 v €)

Typ organizácie (v.v.i.)		Z toho kategórie			
Zdroje	Spolu	Kapitálové zdroje	zdroje na mzdy (610)	zdroje na odvody do poisťovní (620)	zdroje na transfery partnerom projektov
1. kapitola SAV (111)	4 406 305,31	575 600,00	2201797,37	796 340,63	

z toho: VEGA	166 371,00				
MVTS výskumné projekty	90335,60	12611,60			
MVTS podpora	73433,70				
SASPRO/MOREPRO					
Vydávanie časopisov	0				
Mobility	7 500,00				
Vedecká výchova (štipendiá)	115 248,99				
OTAS (630)	3 207 418,02	63 000,00			
2. ŠF EÚ vr. fin. zo ŠR	371 358,81	8 349,82		11 216,73	
3. medzinárodné grantové projekty	2 508 542,03	1 400 000,00	192 086,26	67 564,94	
z toho: H2020	74 124,21		20 866,14	7 152,05	
4. iné štátne a verejné zdroje (spolu)	3 219 214,68	261630,34	834483,78	366706,47	324928,8
z toho: APVV	494 098,42		183 773,62	64 623,95	80 812,00
podpora z kapitoly MŠVVaŠ SR (stimuly)					
5. ostatné zdroje	762 788,29	161 538,96	147 465,89	59 962,69	
z toho: príjmy z prenájmu					
príjmy z podnikateľskej činnosti					
príjmy z expertnej činnosti a služieb	616304,19	40 777,64	33439,77	19408,37	

23.3 Ostatné údaje o hospodárení organizácie

Organizácia nevykonáva podnikateľskú činnosť, ale vykonáva ekonomickú činnosť podliehajúcu dani z príjmov a dani z pridanej hodnoty – distribúcia kryogénnych médií pre ústavy SAV a zdravotnícke zariadenia, ktorá sa eviduje oddelene od hlavnej činnosti. Výnosy zo zdaňovanej činnosti boli 68 588,- €. Náklady 32 288,62 € a daň z príjmu právnickej osoby za rok 2025 je 3485,61 €.

Výročnú správu o hospodárení organizácie zostavil(i):

Ing. Jozef Fabian, CSc.
Iveta Tothová

Stanoviská orgánov v. v. i. k výročnej správe o činnosti a hospodárení organizácie

Stanovisko správnej rady

bez pripomienok

Ing. Ondrej Pohorelec, PhD.

Ing. Jozef Fabian, CSc.

Ing. Ján Fedor, PhD

RNDr. Marianna Španková, PhD.

Stanovisko vedeckej rady

bez pripomienok

RNDr. Dagmar Gregušová, DrSc. – predsedkyňa Vedeckej rady

Stanovisko dozornej rady

bez pripomienok

Ing. Martin Nosko, PhD. – predseda Dozornej rady

Milan
Ťapajna

Digitally signed by Milan
Ťapajna
DN: cn=Milan Ťapajna, c=SK
Date: 2026.06.04 13:40:57
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Bratislava 24.06.2026

Ing. Milan Ťapajna, PhD.
riaditeľ

[Elektronický podpis riaditeľa/riaditeľky organizácie]

PRÍLOHY K ČASTI B

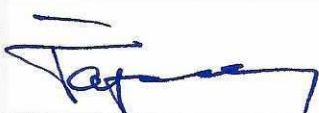
Príloha B-1 Ročná účtovná zázvierka

ÚČTOVNÁ ZÁVIERKA

neziskovej účtovnej jednotky účtujúcej
v sústave podvojného účtovníctva



zostavená k 31.12.2025

Daňové identifikačné číslo 2020795821 IČO 00598429 SK NACE 72.19.0	Účtovná závierka ☒ riadna ☐ mimoriadna ☐ priebežná (vyznačí sa x)	Mesiac Rok Za obdobie od 01 2025 do 12 2025 Bezprostredne predchádzajúce obdobie od 01 2024 do 12 2024
Priložené súčasti účtovnej závierky ☒ Súvaha (Úč NUJ 1-01) (v eurocentoch) ☒ Výkaz ziskov a strát (Úč NUJ 2-01) (v eurocentoch) ☒ Poznámky (Úč NUJ 3-01) (v celých eurách alebo eurocentoch)		
Názov účtovnej jednotky E l e k t r o t e c h n i c k ý ú s t a v S A V , v . v . i .		
Sídlo účtovnej jednotky Ulica D ú b r a v s k á c e s t a PSČ 84104 Obec B r a t i s l a v a Telefónne číslo 02 / 59222658 E-mailová adresa j o z e f . f a b i a n @ s a v b a . s k		
Zostavená dňa: 23.03.2025	Schválená dňa: . . 20	Podpisový záznam štatutárneho orgánu alebo člena štatutárneho orgánu účtovnej jednotky: 

Strana aktív		č.r.	Bežné účtovné obdobie			Bezprostredne predchádzajúce účtovné obdobie
			Brutto	Korekcia	Netto	Netto
a		b	1	2	3	4
A. NEOBEŽNÝ MAJETOK SPOLU r. 002 + r. 009 + r. 021		001	18376541.79	13951852.36	4424689.43	3121620.88
A.I.	Dlhodobý nehmotný majetok r. 003 až r. 008	002	132771.61	99975.9	32795.71	28491.52
A.I.1.	Nehmotné výsledky z vývojovej a obdobnej činnosti 012 - (072+091AÚ)	003				
2.	Softvér 013 - (073+091AÚ)	004	128571.61	98225.7	30345.91	25341.64
3.	Oceniteľné práva 014 - (074 + 091AÚ)	005	4200	1750.2	2449.8	3149.88
4.	Ostatný dlhodobý nehmotný majetok (018+ 019)-(078 + 079 + 091 AÚ)	006				
5.	Obstaranie dlhodobého nehmotného majetku (041-093)	007				
6.	Poskytnuté preddavky na dlhodobý nehmotný majetok (051-095AÚ)	008				
A.II.	Dlhodobý hmotný majetok r. 010 až r. 020	009	18243770.18	13851876.46	4391893.72	3093129.36
A.II.1.	Pozemky (031)	010	154400.16		154400.16	154400.16
2.	Umelecké diela a zbierky (032)	011				
3.	Stavby 021 - (081 - 092AÚ)	012	1528859.68	572241.75	956617.93	979411.09
4.	Samostatné hnutelné veci a súbory hnutelných vecí 022 - (082 + 092AÚ)	013	15119158.07	13265223.04	1853935.03	1301256.71
5.	Dopravné prostriedky 023 - (083 + 092AÚ)	014	14411.67	14411.67		
6.	Pestovateľské celky trvalých porastov 025 - (085 + 092AÚ)	015				
7.	Základné stádo a ťažné zvieratá 026 - (086 + 092AÚ)	016				
8.	Drobný dlhodobý hmotný majetok 028 - (088 + 092AÚ)	017				
9.	Ostatný dlhodobý hmotný majetok 029 - (089 +092AÚ)	018				
10.	Obstaranie dlhodobého hmotného majetku (042 - 094)	019	1389355.2		1389355.2	658061.4
11.	Poskytnuté preddavky na dlhodobý hmotný majetok (052 - 095AÚ)	020	37585.4		37585.4	
A.III.	Dlhodobý finančný majetok r. 022 až r. 028	021				
A.III.1.	Podielové cenné papiere a podiely v obchodných spoločnostiach v ovládanej osobe (061- 096 AÚ)	022				
2.	Podielové cenné papiere a podiely v obchodných spoločnostiach s podstatným vplyvom (062 - 096 AÚ)	023				
3.	Dlhové cenné papiere držané do splatnosti (065 - 096 AÚ)	024				
4.	Pôžičky podnikom v skupine a ostatné pôžičky (066 + 067) - 096 AÚ	025				
5.	Ostatný dlhodobý finančný majetok (069 - 096 AÚ)	026				
6.	Obstaranie dlhodobého finančného majetku (043 - 096 AÚ)	027				
7.	Poskytnuté preddavky na dlhodobý finančný majetok (053 - 096 AÚ)	028				

Strana aktiv		č.r.	Bežné účtovné obdobie			Bezprostredne predchádzajúce účtovné obdobie
			Brutto	Korekcia	Netto	Netto
a		b	1	2	3	4
B. OBEŽNÝ MAJETOK SPOLU r. 030+ r. 037+ r. 042 + r. 051		029	3148075.13	35708.71	3112366.42	2581388.69
B.I.	Zásoby r. 031 až r. 036	030	59671.61	35708.71	23962.9	24091.99
B.I.1.	Materiál (112 + 119) - 191	031	59671.61	35708.71	23962.9	24091.99
2.	Nedokončená výroba a polotovary vlastnej výroby (121+122) - (192 +193)	032				
3.	Výrobky (123 - 194)	033				
4.	Zvieratá (124 - 195)	034				
5.	Tovar (132 + 139) - 196	035				
6.	Poskytnuté prevádzkové preddavky na zásoby (314 AÚ - 391 AÚ)	036				
B.II.	Dlhodobé pohľadávky r. 038 až r. 041	037				
B.II.1.	Pohľadávky z obchodného styku (311 AÚ až 314 AÚ) - 391 AÚ	038				
2.	Ostatné pohľadávky (315 AÚ - 391AÚ)	039				
3.	Pohľadávky voči účastníkom združení (358AÚ - 391AÚ)	040				
4.	Iné pohľadávky (335 AÚ + 373 AÚ + 375 AÚ + 378AÚ) - 391AÚ	041				
B.III.	Krátkodobé pohľadávky r. 043 až r. 050	042	7437.01		7437.01	133920.93
B.III.1.	Pohľadávky z obchodného styku (311AÚ až 314 AÚ) - 391AÚ	043	7382.48		7382.48	133840.8
2.	Ostatné pohľadávky (315 AÚ - 391 AÚ)	044				
3.	Zúčtovanie so Sociálnou poisťovňou a zdravotnými poisťovňami (336)	045	0.24		0.24	
4.	Daňové pohľadávky (341 až 345)	046				
5.	Pohľadávky z dôvodu finančných vzťahov k štátnemu rozpočtu a rozpočtom územnej samosprávy (346+ 348)	047				
6.	Pohľadávky voči účastníkom združení (358 AÚ - 391AÚ)	048				
7.	Spojovací účet pri združení (396 - 391AÚ)	049				
8.	Iné pohľadávky (335AÚ + 373AÚ + 375AÚ + 378AÚ) - 391AÚ	050	54.29		54.29	80.13
B.IV.	Finančné účty r. 052 až r. 056	051	3080966.51		3080966.51	2423375.77
B.IV.1.	Pokladnica (211 + 213)	052				
2.	Bankové účty (221 AÚ + 261)	053	3080966.51		3080966.51	2423375.77
3.	Bankové účty s dobou viazanosti dlhšou ako jeden rok (221 AÚ)	054				
4.	Krátkodobý finančný majetok(251+ 253 + 255AÚ+ 256 + 257) - 291AÚ	055				
5.	Obstaranie krátkodobého finančného majetku (259 - 291AÚ)	056				
C. ČASOVÉ ROZLIŠENIE SPOLU r. 058 a r. 059		057	1781		1781	1410
C.1.	Náklady budúcich období (381)	058	1781		1781	1410
2.	Príjmy budúcich období (385)	059				
MAJETOK SPOLU r. 001 + r. 029 + r. 057		060	21526397.92	13987561.07	7538836.85	5704419.57

Strana pasív		č.r.	Bežné účtovné obdobie	Bezprostredne predchádzajúce účtovné obdobie
a		b	5	6
A. VLASTNÉ IMANIE r. 062+ r. 067 + r. 071 + r. 072		061	611916.54	488670.77
A.I. Imanie a fondy r. 063 až r. 066		062	154400.16	154400.16
A.I.1. Základné imanie (411)		063	154400.16	154400.16
2. Fondy tvorené podľa osobitných predpisov (412)		064		
3. Fond reprodukcie (413)		065		
4. Oceňovacie rozdiely z precenenia kapitálových účastín (415)		066		
A.II. Fondy tvorené zo zisku r. 068 až r. 070		067	28200	14900
A.II.1. Rezervný fond (421)		068	28200	14900
2. Fondy tvorené zo zisku (423)		069		
3. Ostatné fondy (427)		070		
A.III. Nevysporiadaný výsledok hospodárenia minulých rokov (+; - 428)		071	306070.61	279766.9
A.IV. Výsledok hospodárenia za účtovné obdobie r. 060 - (r. 062 + r. 067 + r. 071 + r. 073 + r. 100)		072	123245.77	39603.71
B. ZÁVÄZKY r. 074 + r. 078 + r. 086 + r. 096		073	32048.24	346258.87
B.I.1. Rezervy r. 075 až r. 077		074		970.3
2. Rezervy zákonné (451AÚ)		075		
3. Ostatné rezervy (459AÚ)		076		
4. Krátkodobé rezervy (323 + 451AÚ + 459AÚ)		077		970.3
B.II. Dlhodobé záväzky r. 079 až r. 085		078	8484.73	12622.01
B.II.1. Záväzky zo sociálneho fondu (472)		079	8484.73	12622.01
2. Vydané dlhopisy (473 - 255 AÚ)		080		
3. Záväzky z nájmu (474 AÚ)		081		
4. Dlhodobé prijaté preddavky (475)		082		
5. Dlhodobé nevyfakturované dodávky (476 AÚ)		083		
6. Dlhodobé zmenky na úhradu (478)		084		
7. Ostatné dlhodobé záväzky (373 AÚ + 479 AÚ)		085		
B.III. Krátkodobé záväzky r. 087 až r. 095		086	23563.51	332666.56
B.III.1. Záväzky z obchodného styku (321 až 326) okrem 323		087	15400.39	201376.42
2. Záväzky voči zamestnancom (331+ 333)		088	19.21	
3. Zúčtovanie so Sociálnou poisťovňou a zdravotnými poisťovňami (336)		089		
4. Daňové záväzky (341 až 345)		090	4161.22	34786.14
5. Záväzky z dôvodu finančných vzťahov k štátnemu rozpočtu a rozpočtom územnej samosprávy (346+348)		091		96504
6. Záväzky z upísaných nesplatených cenných papierov a vkladov (367)		092		
7. Záväzky voči účastníkom združení (368)		093		
8. Spojovací účet pri združení (396)		094		
9. Ostatné záväzky (379 + 373 AÚ + 474 AÚ +476AÚ + 479 AÚ)		095	3982.69	
B.IV. Bankové úvery a iné výpomoci a pôžičky r. 097 až r. 099		096		
B.IV.1. Dlhodobé bankové úvery (461AÚ)		097		
2. Bežné bankové úvery (231+ 232 + 461AÚ)		098		
3. Prijaté krátkodobé finančné výpomoci (241+ 249)		099		
C. ČASOVÉ ROZLIŠENIE SPOLU r. 101 až r. 103		100	6894872.07	4869489.93
C.I.1. Výdavky budúcich období (383)		101		
2. Výnosy budúcich období krátkodobé (384 AÚ)		102	3772411.95	2690539.81
3. Výnosy budúcich období dlhodobé (384 AÚ)		103	3122460.12	2178950.12
SPOLU VLASTNÉ IMANIE, ZÁVÄZKY A ÚČTY ČASOVÉHO ROZLIŠENIA r.061+ r.073 + r.100		104	7538836.85	5704419.57

Číslo účtu	Náklady	Číslo riadku	Činnosť			Bezprostredne predchádzajúce účtovné obdobie
			Hlavná nezdaňovaná	Zdaňovaná	Spolu	
a	b	c	1	2	3	4
501	Spotreba materiálu	01	573367.23	25521.8	598889.03	435298.84
502	Spotreba energie	02	93993.22		93993.22	113666.05
504	Predaný tovar	03				
511	Opravy a udržiavanie	04	29986.14		29986.14	325952.21
512	Cestovné	05	121191.68	36.04	121227.72	109797.16
513	Náklady na reprezentáciu	06	2736.18		2736.18	3887.64
518	Ostatné služby	07	265402.77		265402.77	162026.53
521	Mzdové náklady	08	3250007.44	4954.69	3254962.13	2588993.96
524	Zákonné sociálne poistenie a zdravotné poistenie	09	1151776.49	1776.09	1153552.58	911113.23
525	Ostatné sociálne poistenie	10	21396.81		21396.81	18796.98
527	Zákonné sociálne náklady	11	145565.55		145565.55	118121.14
528	Ostatné sociálne náklady	12				
531	Daň z motorových vozidiel	13				
532	Daň z nehnuteľností	14	177.57		177.57	177.57
538	Ostatné dane a poplatky	15	3341.8		3341.8	3336.29
541	Zmluvné pokuty a penále	16	0.07		0.07	
542	Ostatné pokuty a penále	17	30.6		30.6	441
543	Odpísanie pohľadávky	18				
544	Úroky	19				
545	Kurzové straty	20	810.72		810.72	1476.74
546	Dary	21				
547	Osobitné náklady	22				
548	Manká a škody	23	22120.23		22120.23	
549	Iné ostatné náklady	24	245639.02		245639.02	188150.09
551	Odpisy dlhodobého nehmotného majetku a dlhodobého hmotného majetku	25	261740.18		261740.18	162499.76
552	Zostatková cena predaného dlhodobého nehmotného majetku a dlhodobého hmotného majetku	26				
553	Predané cenné papiere	27				
554	Predaný materiál	28				
555	Náklady na krátkodobý finančný majetok	29				
556	Tvorba fondov	30				
557	Náklady na precenenie cenných papierov	31				
558	Tvorba a zúčtovanie opravných položiek	32				
561	Poskytnuté príspevky organizačným zložkám	33				
562	Poskytnuté príspevky iným účtovným jednotkám	34				
563	Poskytnuté príspevky fyzickým osobám	35				
565	Poskytnuté príspevky z podielu zaplatenej dane	36				
567	Poskytnuté príspevky z verejnej zbierky	37				
Účtová trieda 5 spolu r. 01 až r. 37		38	6189283.7	32288.62	6221572.32	5143735.19

Číslo účtu	Výnosy	Číslo riadku	Činnosť			Bezprostredne predchádzajúce účtovné obdobie
			Hlavná nezdaňovaná	Zdaňovaná	Spolu	
a	b	c	1	2	3	4
601	Tržby za vlastné výrobky	39	5000		5000	
602	Tržby z predaja služieb	40	412565.09	68588	481153.09	280292.89
604	Tržby za predaný tovar	41				
611	Zmena stavu zásob nedokončenej výroby	42				
612	Zmena stavu zásob polotovarov	43				
613	Zmena stavu zásob výrobkov	44				
614	Zmena stavu zásob zvierat	45				
621	Aktivácia materiálu a tovaru	46				
622	Aktivácia vnútroorganizačných služieb	47				
623	Aktivácia dlhodobého nehmotného majetku	48				
624	Aktivácia dlhodobého hmotného majetku	49				
641	Zmluvné pokuty a penále	50				
642	Ostatné pokuty a penále	51				
643	Platby za odpísané pohľadávky	52				
644	Úroky	53				
645	Kurzové zisky	54	490.44		490.44	893.72
646	Prijaté dary	55	2332.8		2332.8	
647	Osobitné výnosy	56				1563.4
648	Zákonné poplatky	57				
649	Iné ostatné výnosy	58	84.32		84.32	82.24
651	Tržby z predaja dlhodobého nehmotného majetku a dlhodobého hmotného majetku	59				
652	Výnosy z dlhodobého finančného majetku	60				
653	Tržby z predaja cenných papierov a podielov	61				
654	Tržby z predaja materiálu	62				
655	Výnosy z krátkodobého finančného majetku	63				
656	Výnosy z použitia fondu	64				
657	Výnosy z precenenia cenných papierov	65				
658	Výnosy z nájmu majetku	66				
661	Prijaté príspevky od organizačných zložiek	67				
662	Prijaté príspevky od právnických osôb	68	479010.75		479010.75	541561.03
663	Prijaté príspevky od fyzických osôb	69				
664	Prijaté členské príspevky	70				
665	Príspevky z podielu zaplatenej dane	71				
667	Prijaté príspevky z verejných zbierok	72				
691	Dotácie	73	5380232.3		5380232.3	4363458.37
Účtová trieda 6 spolu r. 39 až r. 73		74	6279715.7	68588	6348303.7	5187851.65
Výsledok hospodárenia pred zdanením r. 74 - r. 38		75	90432	36299.38	126731.38	44116.46
591	Daň z príjmov	76		3485.61	3485.61	4512.75
595	Dodatočné odvody dane z príjmov	77				
Výsledok hospodárenia po zdanení (r. 75 - (r. 76 + r. 77)) (+/-)		78	90432	32813.77	123245.77	39603.71

Čl. I

Všeobecné informácie

(1) Meno a priezvisko fyzickej osoby alebo názov právnickej osoby, ktorá je zakladateľom alebo zriaďovateľom účtovnej jednotky, dátum založenia alebo zriadenia účtovnej jednotky.

Zakladateľ: Slovenská akadémia vied.

Dodatkom č.1, k Zakladacej listine, sa s účinnosťou od 1.1.2022 zmenila organizácia na Elektrotechnický ústav Slovenskej akadémie vied, verejná výskumná inštitúcia.

(2) Informácie o členoch štatutárnych orgánov, dozorných orgánov a iných orgánov účtovnej jednotky:

Vedenie ústavu

Riaditeľ ústavu: Ing. Milan Ťapajna, PhD.

Zástupca riaditeľa: Mgr. Michaela Sojková, PhD.

Zástupca riaditeľa pre technickú infraštruktúru: Ing. Boris Hudec

Vedecký tajomník: Ing. Ondrej Pohorelec,

Administrátor pre popularizáciu a komunikáciu: Ing. Tomáš Kujovič, PhD.

Správna rada:

Ing. Ondrej Pohorelec

Ing. Jozef Fabian, CSc.

Ing. Ján Fedor, PhD.

RNDr. Marianna Španková, PhD.

Dozorná rada:

prof. RNDr. Peter Samuely, DrSc.

prof. Ing. Viera Stopjaková, PhD.

Ing. Romana Jurkiewiczová

Vedecká rada

Predsedníčka: RNDr. Dagmar Gregušová, DrSc.

Interní členovia:

Ing. Filip Gucmann, PhD. – podpredsa

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.

(3) Opis činnosti, na účel ktorej bola účtovná jednotka zriadená

Prevažujúcou hlavnou činnosťou organizácie je uskutočňovanie výskumu v odboroch vedy a techniky (ďalej tiež „odbory“): Fyzika kondenzovaných látok a akustika (010304), Teoretická elektrotechnika (020201), Elektrické stroje a prístroje (020204), Elektrotechnológie a materiály (020205), Elektroenergetika (020210), Mikroelektronika (020211), Optoelektronika (020212), Senzorika (020216), Fyzikálne inžinierstvo (020404), Nanomateriály (021 1 0 1) a Nanoelektronika (02 1 1 03).

Ďalšími hlavnými činnosťami organizácie sú:

a) zabezpečovanie a správa infraštruktúry výskumu a vývoja

- b) získavanie, spracúvanie a šírenie informácií z oblasti vedy a techniky a poznatkov z vlastného výskumu a vývoja organizácie; spoluvydávanie časopisu Journal of Electrical Engineering (ISSN 1339-309X),
- c) podieľanie sa v spolupráci s vysokou školou na uskutočňovaní študijných programov tretieho stupňa vysokoškolského štúdia a
- d) spolupráca v oblasti vedy a techniky s vysokými školami, ostatnými právnickými osobami uskutočňujúcimi výskum a vývoj.

(4) Priemerný prepočítaný počet zamestnancov a z toho počet vedúcich zamestnancov účtovnej jednotky za účtovné obdobie, za ktoré sa zostavuje účtovná závierka (ďalej len „bežné účtovné obdobie“).

	Bežné účtovné obdobie	Počet hodín vykonávania dobrovoľníckej činnosti
Priemerný prepočítaný počet zamestnancov	96,7	x
z toho počet vedúcich zamestnancov	7	x

(5) Organizačná štruktúra účtovnej jednotky.

Vedenie ústavu

Medzinárodný poradný zbor

Správna rada

Vedecká rada

Dozorná rada

Zástupca v Sneme SAV

Vedecké oddelenia

Oddelenie fyziky a technológie nanoštruktúr

Oddelenie III-V polovodičov

Oddelenie supravodičov

Oddelenie mikroelektroniky a senzoriky

Podporné útvary

Hospodársko správny útvar

Knižnica

Technický útvar

Čl. II

Informácie o účtovných zásadách a účtovných metódach

(1) Informácia, či je účtovná závierka zostavená za splnenia predpokladu, že účtovná jednotka bude nepretržite pokračovať vo svojej činnosti.

Účtovná jednotka bude nepretržite pokračovať vo svojej činnosti.

(2) Zmeny účtovných zásad a zmeny účtovných metód s uvedením dôvodu týchto zmien a vyčíslením ich vplyvu na finančnú hodnotu majetku, záväzkov, základného imania a výsledku hospodárenia účtovnej jednotky.

Verejné výskumné inštitúcie vedú účtovníctvo v súlade s Postupmi účtovania pre účtovné jednotky nezriadené alebo nezaložené na účel podnikania v zmysle konsolidovaného znenia právneho predpisu: „Opatrenie Ministerstva financií Slovenskej republiky zo 14. novembra 2007 č. MF/24342/2007-74“. Zmeny účtovných metód a zásad nastali z dôvodu usmernení MF SR vydaných počas roka 2024 k tomuto predpisu, ktoré správca kapitoly SAV premietol do Pokynov pre všetky VVI, z dôvodu jednotného vykazovania a dodržiavania zásad opatrnosti vzhľadom ku konsolidovanej účtovnej závierke, ktorú správca kapitoly zostavuje.

Usmernenie č. MF/006583/2024-74 zo dňa 23.1.2024

V zmysle tohto usmernenia verejné výskumné inštitúcie, ktoré majú uzavreté s poskytovateľom dotácií viacročné zmluvy o pridelení dotácie účtujú o pohľadávke voči poskytovateľovi dotácie na ročnej báze.

Pri dodržaní aktuálneho princípu v rámci účtovného obdobia a vykázania nákladov a výnosov z titulu dotácie a jej použitia v rámci príslušného účtovného obdobia, bude VVI účtovať predpis dotácie na strane MD 346 a na strane Dal účtu 384. Následne v priebehu účtovného obdobia v časovej a vecnej súvislosti s účtovaním nákladov bude zúčtovávať účet 384 do výnosov na účte 691 – Dotácie.

Usmernenie č. MF/008411/2024-74 zo dňa 08.3.2024

V zmysle usmernenia č. MF/24342/2007-74 verejné výskumné inštitúcie, ktoré účtujú o refundačných dotáciách, ktoré boli financované z vlastných zdrojov v minulých účtovných obdobiach, ak sa takáto refundačná dotácia nepoužije v období, v ktorom bola prijatá, VVI je v súlade s §45 ods. 8 opatrenia povinná ju časovo rozlíšiť a preúčtovať prostredníctvom účtu 384 – Výnosy budúcich období.

Nakoľko refundácie nie sú vlastným zdrojom, ale transferom, ktorý je VVI pri jeho následnom používaní povinná uvádzať na mesačnej báze vo výkazoch FIN-12 a súčasne zahrnúť do tabuľky č. 191 odsúhlasovacieho formulára konsolidačného balíka, bude VVI účtovať tieto dotácie na účte 384 – Výnosy budúcich období a následne v časovej a vecnej súvislosti s účtovaním nákladov ich bude zúčtovávať na účte 691 – Dotácie.

Usmernenie č. MF/017476/2025-38

VVI má povinnosť vykázat zmeny a zostatky v transferoch a predkladať tabuľky o ich stave a pohybe na účte 384. Transfermi na účely tohto metodického usmernenia sú dotácie, príspevky, rozpočtové bežné výdavky, kapitálové výdavky, granty, dlhodobý hmotný majetok obstaraný za plnenie vo forme koncesie na stavebné práce podľa osobitného predpisu, prevod správy dlhodobého majetku a zásob a iné finančné operácie v súlade s ustanovením § 19 opatrenia MF SR č. MF/14522/2022-36.

(3) Spôsoby ocenenia jednotlivých položiek majetku a záväzkov.

- a) dlhodobý nehmotný majetok - ocenený obstarávacou cenou,
- b) dlhodobý hmotný majetok - ocenený obstarávacou cenou,
- c) zásoby - ocenené obstarávacou cenou. Opravné položky k zásobám sa tvoria na základe zásady opatrnosti, vyjadrujú prechodné zníženie ich hodnoty.
- d) pohľadávky - ocenené menovitou hodnotou,
- e) krátkodobý finančný majetok - ocenený menovitou hodnotou,
- f) záväzky, vrátane rezerv, dlhopisov, pôžičiek a úverov - ocenené menovitou hodnotou,
- g) majetok obstaraný z transferov - ocenený obstarávacou cenou,
- h) majetok darovaný a zistený ako inventarizačný prebytok - ocenený reálnou cenou - hodnota zistená oceňovacím modelom

Účtovná jednotka sa od 10.7.2024 stala platiteľom dane z pridanej hodnoty z obratu, z dôvodu predaja kvapalných plynov. V tomto prípade si uplatňujeme aj nárok na odpočet DPH. Naďalej sme však platcom registrovaným podľa § 7 pri nadobudnutí tovaru a služieb zo zahraničia. V prípadoch, keď dodávateľia sú platiteľmi DPH, fakturovaná DPH je súčasťou ocenenia dlhodobého majetku, zásob a nákladov.

(4) Spôsob zostavenia odpisového plánu pre jednotlivé druhy dlhodobého hmotného majetku a dlhodobého nehmotného majetku, pričom sa uvádza doba odpisovania, použité sadzby odpisov a odpisové metódy pri určení odpisov.

Druh dlhodobého majetku	Doba odpisovania	Sadzba odpisov	Odpisová metóda
Softvér, stroje, prístroje, zariadenia	6	16,66%	Rovnomerná
Stroje, prístroje, zariadenia	8	12,50%	Rovnomerná
Stroje, prístroje, zariadenia	10	10 %	Rovnomerná
Stroje, prístroje, zariadenia	12	8,33%	Rovnomerná
Budovy	50	2%	Rovnomerná

(5) Zásady pre zohľadnenie zníženia hodnoty majetku. Uvádza sa, či účtovná jednotka uplatňuje opravné položky a rezervy.

Opravné položky boli vytvorené v predchádzajúcich účtovných obdobiach k zásobám v sume 35 708,71 €. Rezervy v roku 2025 boli tvorené ako krátkodobé rezervy, na colný dlh, ktorý nebol vyfakturovaný k 31.12.2025 v sume 1640,20 € na účte 326.

(6) Informácie o účtovaní opráv významných chýb minulých účtovných období v bežnom účtovnom období s uvedením vplyvu na výsledok hospodárenia minulých rokov; súčasne sa môže uviesť aj informácia o účtovaní opráv nevýznamných chýb minulých účtovných období v bežnom účtovnom období s uvedením vplyvu na výsledok hospodárenia bežného účtovného obdobia.

Účtovná jednotka neeviduje.

Čl. III

Informácie, ktoré dopĺňajú a vysvetľujú údaje v súvahe

(1) Významné sumy prírastkov a úbytkov dlhodobého nehmotného majetku a dlhodobého hmotného majetku.

Prírastky dlhodobého nehmotného majetku sú v sume 11 647,52 €.

Prírastky dlhodobého hmotného majetku v sume 756 304,44 €. Najvýznamnejšie položky : tester napájania + SW, termostát v hodnote 370 788,66 €, Leštiaci a lapovací stroj s príslušenstvom v hodnote 200 047,58 €. Darovaný majetok ocenený reálnou cenou bol vyradený z podsúvahovej evidencie a zaradený do dlhodobého hmotného majetku v hodnote 27 977,57 €. Úbytok vyradeného majetku bol v hodnote 127 239,28 €.

(2) Prehľad dlhodobého majetku, na ktorý je zriadené záložné právo a prehľad dlhodobého majetku, pri ktorom má účtovná jednotka obmedzené právo s ním nakladať.

Účtovná jednotka neeviduje.

(3) Údaje o štruktúre dlhodobého finančného majetku za bežné účtovné obdobie a jeho umiestnenie v členení podľa položiek súvahy v riadkoch 022 a 023.

Účtovná jednotka neeviduje.

(4) Údaje o štruktúre dlhodobého finančného majetku a krátkodobého finančného majetku v členení podľa položiek súvahy v riadkoch 024, 026 a 055.

Účtovná jednotka neeviduje.

(5) Údaje o štruktúre dlhodobých pôžičiek.

Účtovná jednotka neeviduje.

(6) Prehľad o vývoji významných súm opravných položiek podľa jednotlivých druhov majetku.

Druh majetku, ku ktorému sa tvorí opravná položka	Stav opravnej položky na konci bezprostredne predchádzajúceho účtovného obdobia	Tvorba opravnej položky (zvýšenie)	Zúčtovanie opravnej položky (použitie, zrušenie)	Stav opravnej položky na konci bežného účtovného obdobia
zásoby	35 708,71			35 708,71

(7) Opis významných súm pohľadávok v nadväznosti na položky súvahy, v členení na pohľadávky za hlavnú nezdaňovanú činnosť a zdaňovanú činnosť za bežné účtovné obdobie.

Druh a opis významných položiek pohľadávok	Hlavná nezdaňovaná činnosť	Zdaňovaná činnosť
Pohl. z dôvodu fin. vzťahov k ŠR (346)		
Pohl. z projektov zo zahraničia (315)		
Pohľadávky z obch. styku (311,314)	3 000,-	4382,48

(8) Prehľad pohľadávok do uplynutia lehoty splatnosti a po uplynutí lehoty splatnosti.

Pohľadávky	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
- do uplynutia lehoty splatnosti	133 914,93	4 381,88
- po uplynutí lehoty splatnosti	6,-	3 000,60
Spolu	133 920,93	7 382,48

(9) Prehľad o významných položkách časového rozlíšenia nákladov budúcich období a príjmov budúcich období.

Náklady budúcich období sú v nevýznamnej sume 1 410 €, jedná sa o výdavky na zahraničnú služobnú cestu, ktorá sa uskutoční v roku 2026.

(10) Opis a výška zmien vlastného imania v priebehu bežného účtovného obdobia podľa položiek súvahy.

	Stav na začiatku bežného účtovného obdobia	Prírastky (+)	Úbytky (-)	Presuny (+, -)	Stav na konci bežného účtovného obdobia
Vlastné imanie					
Základné imanie	154 400,16				154 400,16
z toho:					
- prioritný majetok	154 400,16				154 400,16
Fondy tvorené zo zisku					
Rezervný fond	14 900,-		26 303,71	39 603,71	28 200,-
Výsledok hospodárenia					
Nevysporiadaný výsledok hospodárenia minulých rokov	279 766,90	26 303,71			306 070,61
Výsledok hospodárenia účtovného obdobia	39 603,71	123 245,77		-39 603,71	123 245,77
Spolu	488 670,77	149 549,48	26 303,71	0,-	611 916,54

(11) Opis a vyčíslenie jednotlivých druhov fondov tvorených podľa osobitných predpisov.

Rezervný fond je vytvorený zo zisku. V roku 2025 bolo použitých 26 303,71 € na čiastočné krytie strát z minulých rokov..

Opis fondov tvorených podľa osobitných predpisov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Prírastky	Úbytky	Stav na konci bežného účtovného obdobia
Rezervný fond	14 900,-	39 603,71	26 303,71	28 200,-

(12) Informácia o rozdelení účtovného zisku alebo o vysporiadaní účtovnej straty za bezprostredne predchádzajúce účtovné obdobie.

Názov položky	Bezprostredne predchádzajúce účtovné obdobie
Účtovný zisk	39 603,71
Rozdelenie účtovného zisku	

Pridel do rezervného fondu	39 603,71
Prevod do nevysporiadaného výsledku hospodárenia minulých rokov	- 26 303,71

(13) Údaje o jednotlivých druhoch rezerv v členení na stav rezerv na konci bezprostredne predchádzajúceho účtovného obdobia a stav rezerv na konci bežného účtovného obdobia, ich tvorbu, použitie alebo zrušenie v priebehu bežného účtovného obdobia.

Druh rezervy	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Tvorba rezerv	Použitie rezerv	Zrušenie rezerv	Stav na konci bežného účtovného obdobia
Zákonné rezervy spolu					
Nevyfakturované dodávky	970,30		970,30		
Ostatné rezervy spolu		1 640,20			1 640,20
Rezervy spolu	970,30	1 640,20	970,30		1 640,20

(14) Údaje o významných sumách záväzkov v nadväznosti na položky súvahy, v členení na záväzky za hlavnú nezdaňovanú činnosť a zdaňovanú činnosť.

Druh a opis významných položiek záväzkov	Hlavná nezdaňovaná činnosť	Zdaňovaná činnosť
Záväzky daň z príjmov PO		2 185,47
Záväzky z obchodného styku (321)	13 760,19	
Záväzky zo sociálneho fondu (472)	8 484,73	

Významná položka záväzkov je faktúra za monitor na mapovanie teploty suspectora v sume 8 585,26 €.

(15) Prehľad záväzkov do uplynutia lehoty splatnosti a po uplynutí lehoty splatnosti.

Záväzky	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
- do uplynutia lehoty splatnosti	329 203,15	32 048,24
- po uplynutí lehoty splatnosti	17 055,72	
Spolu	346 258,87	32 048,24

(16) Prehľad o začiatocnom stave, tvorbe, čerpaní a konečnom zostatku sociálneho fondu v priebehu bežného účtovného obdobia.

Sociálny fond	Suma
Stav k prvému dňu bežného účtovného obdobia	12 622,01
Tvorba na ťarchu nákladov	35 193,90
Čerpanie	39 331,18
Stav k poslednému dňu bežného účtovného obdobia	8 484,73

(17) Prehľad o bankových úveroch, pôžičkách a návratných finančných výpomociach s uvedením meny.

Účtovná jednotka neeviduje.

(18) Prehľad o významných položkách časového rozlíšenia výdavkov budúcich období.

Účtovná jednotka neeviduje.

(19) Prehľad výnosov budúcich období v členení podľa jednotlivých druhov a v členení na dlhodobé výnosy budúcich období a krátkodobé výnosy budúcich období.

Položky výnosov budúcich období - dlhodobé z dôvodu	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
dlhodobého majetku obstaraného z verejných zdrojov	1 896 682,32	2 022 247,04
prijatý, nepoužitý kapitálový transfer zo ŠR	11,60	500 000,-
prijatý, nepoužitý kapitálový transfer z PO	76 379,02	
dlhodobého majetku obstaraného zo súkromných zdrojov	205 877,18	549 730,31
Spolu	2 178 950,12	3 071 977,35

Položky výnosov budúcich období - krátkodobé z dôvodu	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
dotácie zo štátneho rozpočtu a z prostriedkov Európskej únie	730 286,53	1 241 889,23
transferov od subjektov verejnej správy na roky 2025		195 947,24
od subjektov mimo VS	23 929,33	280 144,77
grantov zo zahraničia	1 936 323,95	2 054 430,71
Spolu	2 269 039,81	3 772 411,95

(20) Údaje o druhoch majetku a záväzkoch z lízingových zmlúv.

Účtovná jednotka neeviduje.

Čl. IV

Informácie, ktoré dopĺňajú a vysvetľujú údaje vo výkaze ziskov a strát

(1) Prehľad tržieb za vlastné výkony a tovar s uvedením ich opisu a vyčíslením hodnoty tržieb podľa jednotlivých hlavných druhov výrobkov, služieb hlavnej nezdaňovanej činnosti a zdaňovanej činnosti účtovnej jednotky za bežné účtovné obdobie.

Druh a opis tržieb	Hlavná nezdaňovaná činnosť	Zdaňovaná činnosť
Kvapalné plyny		68 588,-
PO so súkromnou sférou Bizzcom	192 000,-	
Merania a analýzy, príprava vzoriek	94 578,-	
Konferencia IEEE NAP 2025 ubytovanie a vložné	130 987,04	
Konferencia IEEE NAP 2025 sponzorské	21 000,-	
Iné: dobropisy, kurzové zisky,	574,76	

Významnou sumu tržieb generuje spolupráca s firmou Bizzcom, kde sa podieľame na riešení projektu z PO a organizovanie konferencie IEEE NAP 2025.

- (2) Opis a vyčíslenie hodnoty významných súm v nadväznosti na položky výkazu ziskov a strát v členení na nepeňažné dary, osobitné výnosy, zákonné poplatky a iné ostatné výnosy za bezprostredne predchádzajúce účtovné obdobie a za bežné účtovné obdobie.

Druh a opis významných súm výnosov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
Výnosy z bežných transferov od subjektov mimo verejnej správy	504 937,40	536 992,40
Výnosy z kapitálových transferov od subjektov mimo verejnej správy	6401,75	71 918,56

- (3) Prehľad významných súm dotácií zo štátneho rozpočtu, štátnych fondov, z prostriedkov Európskej únie, dotácií z rozpočtu obce a z rozpočtu vyššieho územného celku, ktoré účtovná jednotka prijala v bezprostredne predchádzajúcom účtovnom období a v bežnom účtovnom období.

Druh a opis významných súm dotácií a grantov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
Inštitucionálna forma podpory zo ŠR	3 327 284,60	3 582 813,05
Dotácie – kapitálový transfer zo ŠR	7 100,-	75 600,-
Výkonnostná zmluva	282 311,-	245 998,-
Výkonnostná zmluva – kapitálový transfer		500 000,-
Dotácie – bežný transfer od agentúry APVV	627 061,-	300 049,-
Dotácie – bežný transfer projekty z EÚ	303 903,70	282 421,07
Dotácie – bežný transfer od ostatných subjektov VS	1 513 802,44	2 363 970,43
Dotácie – kapitálový transfer od ostatných subjektov VS		220 652,32
Dotácie - EFRR		199 047,24
Zahraničné projekty zdroj 35	1 909 593,84	342 219,42

- (4) Opis a vyčíslenie hodnoty významných položiek príjmov z reklám, ktoré sú určené na charitatívne účely, a charitatívnej lotérie prijatých v bezprostredne predchádzajúcom účtovnom období a v bežnom účtovnom období.

Účtovná jednotka neeviduje.

- (5) Opis a vyčíslenie hodnoty významných súm v nadväznosti na položky výkazu ziskov a strát v členení na nepeňažné dary, náklady na ostatné služby, osobitné náklady a iné ostatné náklady poskytnuté v bežnom účtovnom období.

Druh a opis významných položiek nákladov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
Materiál (elektro, chemikálie, drobný majetok)	435 298,84	598 889,03
Energie (el. energia, voda)	113 666,05	93 993,22

Opravy a udržiavanie (výťahy, zariadenia)	325 952,21	29 986,14
Cestovné (tuzemské, zahraničné)	109 797,16	121 227,72
Ostatné služby(SW, Školenia, konferencie, merania, patenty)	162 026,53	265 402,77
Mzdové náklady	2 588 993,96	3 254 962,13
Zákonné sociálne poistenie a zdravotné poistenie	911 113,23	1 153 552,58
Zákonné sociálne náklady (PN, SF, stravné)	118 121,14	145 565,55
Iné ostatné náklady (štipendiá)	188 150,09	245 639,02
Odpisy dlhodobého nehmotného majetku a dlhodobého hmotného majetku	162 499,76	261 740,18

Významné položky nákladov boli na náhradné diely a materiál na rozvod plynov, nákup kvapalných plynov, kancelárskeho a laboratórneho vybavenia, náklady na organizovanie konferencie IEEE NAP 2025. Značnou mierou stúpili náklady na mzdy a odvody na vyšší počet zamestnancov prijatých na PO.

(6)Prehľad o účele a výške použitia zostatku prijatého podielu zaplatenej dane v minulých účtovných obdobiach a prijatého podielu zaplatenej dane v bežnom účtovnom období.

Účtovná jednotka neeviduje.

Čl. V

Opis údajov na podsúvahových účtoch

Významné položky zásob prijatých na komisionálny predaj, prenajatého majetku, majetku prijatého do úschovy, odpísané pohľadávky a prípadné ďalšie položky.

Druh a opis položiek podsúvahových účtov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
Prenajatý dlhodobý majetok	175 479,77	0
Drobný hmotný a nehmotný majetok neodpisovaný	1 136 659,94	1 256 354,-

Prenajatý majetok bol vyradený z podsúvahovej evidencie, pretože ho účtovná jednotka dostala ako dar a zaradila do dlhodobého majetku v reálnej cene.

Čl. VI

Ďalšie informácie

(1) Opis a hodnota iných aktív, ktorými sa rozumie majetok, ktorý vznikol v dôsledku minulých udalostí a ktorého existencia alebo vlastníctvo závisí od toho, či nastane alebo nenastane jedna alebo viac neistých udalostí v budúcnosti, ktorých vznik nezávisí od účtovnej jednotky; týmito inými aktívami sú napríklad práva zo servisných zmlúv, poisťných zmlúv, koncesionárskych zmlúv, licenčných zmlúv, práva z investovania prostriedkov získaných oslobodením od dane z príjmov.

Účtovná jednotka neeviduje.

(2) Opis a hodnota iných pasív vyplývajúcich zo súdnych rozhodnutí, z poskytnutých záruk, zo všeobecne záväzných právnych predpisov, z ručenia podľa jednotlivých druhov ručenia; takýmito inými pasívami sú:

a) povinnosť, ktorá vznikla ako dôsledok minulej udalosti a ktorej existencia závisí od toho, či nastane alebo nenastane jedna alebo viac neistých udalostí v budúcnosti, ktorých vznik nezávisí od účtovnej jednotky, alebo

b) povinnosť, ktorá vznikla ako dôsledok minulej udalosti, ale ktorá sa nevykazuje v súvahe, pretože nie je pravdepodobné, že na splnenie tejto povinnosti bude potrebný úbytok ekonomických úžitkov, alebo výška tejto povinnosti sa nedá spoľahlivo oceniť.

Účtovná jednotka neeviduje.

(3) Opis významných položiek ostatných finančných povinností, ktoré sa nesledujú v účtovníctve a neuvádzajú sa v súvahe; pri každej položke sa uvádza jej opis, výška a údaj, či sa týka spriaznených osôb, a to

a) povinnosť z devízových termínovaných obchodov a iných finančných derivátov,

Účtovná jednotka neeviduje.

b) povinnosť z opčných obchodov,

Účtovná jednotka neeviduje.

c) zákonná povinnosť alebo zmluvná povinnosť odobrať určité produkty alebo služby, napríklad z dodávateľských zmlúv alebo odberateľských zmlúv,

Účtovná jednotka neeviduje.

d) povinnosť z lízingových zmlúv, nájomných zmlúv, servisných zmlúv, poisťných zmlúv, koncesionárskych zmlúv, licenčných zmlúv a podobných zmlúv,

e) iné povinnosti.

Účtovná jednotka neeviduje.

(4) Prehľad nehnuteľných kultúrnych pamiatok, ktoré sú v správe alebo vo vlastníctve účtovnej jednotky, a to názov, adresa a číslo kultúrnej pamiatky v Ústrednom zozname pamiatkového fondu.

Účtovná jednotka neeviduje.

(5) Informácie o významných skutočnostiach, ktoré nastali medzi dňom, ku ktorému sa zostavuje účtovná závierka a dňom jej zostavenia.

Účtovná jednotka neeviduje.