

Elektrotechnický ústav SAV



**Správa o činnosti organizácie SAV
za rok 2017**

Bratislava
január 2018

Obsah osnovy Správy o činnosti organizácie SAV za rok 2017

1. Základné údaje o organizácii
2. Vedecká činnosť
3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku
4. Medzinárodná vedecká spolupráca
5. Vedná politika
6. Spolupráca s VŠ a inými subjektmi v oblasti vedy a techniky
7. Spolupráca s aplikačnou a hospodárskou sférou
8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné organizácie
9. Vedecko-organizačné a popularizačné aktivity
10. Činnosť knižnično-informačného pracoviska
11. Aktivity v orgánoch SAV
12. Hospodárenie organizácie
13. Nadácie a fondy pri organizácii SAV
14. Iné významné činnosti organizácie SAV
15. Vyznamenania, ocenenia a ceny udelené organizácii a pracovníkom organizácie SAV
16. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám
17. Problémy a podnety pre činnosť SAV

PRÍLOHY

- A Zoznam zamestnancov a doktorandov organizácie k 31.12.2017*
- B Projekty riešené v organizácii*
- C Publikáčná činnosť organizácie*
- D Údaje o pedagogickej činnosti organizácie*
- E Medzinárodná mobilita organizácie*
- F Vedecko-popularizačná činnosť pracovníkov organizácie SAV*

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Elektrotechnický ústav SAV

Riaditeľ: RNDr. Vladimír Cambel, DrSc.

1. zástupca riaditeľa: Ing. Milan Ťapajna, PhD.

2. zástupca riaditeľa: Ing. Ján Fedor, PhD.

Vedecký tajomník: RNDr. Marianna Španková, PhD.

Predseda vedeckej rady: RNDr. Dagmar Gregušová, DrSc.

Člen snemu SAV: doc. Ing. Fedor Gömöry, DrSc.

Adresa: Dúbravská cesta 9, 841 04 Bratislava

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Názvy a adresy detašovaných pracovísk:

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

Vedúci detašovaných pracovísk:

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

Typ organizácie: Príspevková od roku 1993

1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

| Štruktúra zamestnancov | K | K | | K do 35 rokov | | F | P | T |
|---|-----|----|----|---------------------|---|-----|-------|-------|
| | | M | Ž | M | Ž | | | |
| Celkový počet zamestnancov | 115 | 84 | 31 | 24 | 7 | 112 | 87,89 | 58,66 |
| Vedeckí pracovníci | 56 | 49 | 7 | 12 | 2 | 54 | 45,61 | 44,61 |
| Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹) | 23 | 16 | 7 | 9 | 4 | 22 | 11,67 | 11,67 |
| Odborní pracovníci VŠ (ostatní zamestnanci ²) | 7 | 3 | 4 | 1 | 1 | 7 | 6,33 | 0,13 |
| Odborní pracovníci ÚS | 20 | 12 | 8 | 2 | 0 | 20 | 17,68 | 2,25 |
| Ostatní pracovníci | 9 | 4 | 5 | 0 | 0 | 9 | 6,6 | 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 31.12.2017 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiach v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiach v zastupiteľských zboroch)

F – fyzický stav zamestnancov k 31.12.2017 (bez riadnej materskej dovolenky, zamestnancov pôsobiach v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiach v zastupiteľských zboroch)

P – celoročný priemerný prepočítaný počet zamestnancov

T – celoročný priemerný prepočítaný počet riešiteľov projektov

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2017)

| Rodová skladba | Pracovníci s hodnosťou | | | | Vedeckí pracovníci v stupňoch | | |
|----------------|------------------------|-----------|-------|------|-------------------------------|-------|-------|
| | DrSc. | CSc./PhD. | prof. | doc. | I. | II.a. | II.b. |
| Muži | 10 | 37 | 0 | 4 | 11 | 24 | 14 |
| Ženy | 1 | 6 | 0 | 0 | 1 | 4 | 2 |

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

| Veková štruktúra (roky) | < 31 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | > 65 |
|-------------------------|------|-------|-------|-------|-------|-------|-------|-------|------|
| Muži | 13 | 9 | 8 | 3 | 2 | 2 | 3 | 16 | 7 |
| Ženy | 2 | 3 | 1 | 0 | 1 | 2 | 3 | 2 | 0 |

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2017

| | Kmeňoví zamestnanci | | Vedeckí pracovníci | | Riešitelia projektov | |
|--------------|---------------------|-------|--------------------|-------|----------------------|-------|
| | A | B | A | B | A | B |
| Muži | 49,07 | 48,49 | 46,2 | 47,44 | 47,36 | 46,89 |
| Ženy | 52,0 | 53,92 | 46,14 | 45,98 | 43,43 | 47,84 |
| Spolu | 49,88 | 50,02 | 46,04 | 47,24 | 46,65 | 47,06 |

A - Prepočet bez zohľadnenia úväzkov zamestnancov

B - Prepočet so zohľadnením úväzkov zamestnancov

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

V októbri sa uskutočnili voľby riaditeľa. RNDr. V. Cambel, DrSc. bol potvrdený vo funkcii na ďalšie 4 roky. Zmeny nastali vo funkcii zástupcu riaditeľa: doc. Ing. F. Gömöryho, DrSc. vymenil Ing. M. Ťapajna, PhD, druhým zástupcom pre infraštruktúru zostal Ing. J. Fedor, PhD. a vedeckou tajomníčkou bola menovaná RNDr. M. Španková, PhD.

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2017

| ŠTRUKTÚRA PROJEKTOV | Počet | | Čerpané financie (€) | | | | | |
|--|-------|---|----------------------|-----------------|-----------------|-----------------|----------------|-----------------|
| | A | B | A | | | | B | |
| | | | Zo zdrojov SAV | | Z iných zdrojov | | Zo zdrojov SAV | Z iných zdrojov |
| | | | Spolu | Pre organizáciu | Spolu | Pre organizáciu | | |
| 1. Projekty VEGA | 12 | 3 | 125361 | 125361 | - | - | 12545 | - |
| 2. Projekty APVV | 13 | 5 | - | - | 663108 | 426250 | - | 71686 |
| 3. Projekty OP ŠF | 0 | 0 | - | - | - | - | - | - |
| 4. Projekty SASPRO | 4 | 0 | 224747 | 224747 | - | - | - | - |
| 5. Projekty centier excelentnosti SAV | 0 | 0 | - | - | - | - | - | - |
| 6. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.) | 0 | 0 | - | - | - | - | - | - |

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2017

| Štruktúra projektov | Miesto podania | Organizácia nositeľom projektu | je Organizácia sa zmluvne podieľa na riešení projektu |
|---|----------------|--------------------------------|---|
| 1. Účasť na nových výzvach APVV r. 2017 | - | 3 | 3 |
| 2. Projekty výziev OP ŠF podané r. 2017 | Bratislava | | |
| | Regióny | | |

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2017

Tabuľka 2c Medzinárodné projekty riešené v roku 2017

| ŠTRUKTÚRA PROJEKTOV | Počet | | Čerpané financie (€) | | | | | |
|--|-------|---|----------------------|-----------------|-----------------|-----------------|----------------|-----------------|
| | A | B | A | | | | B | |
| | | | Zo zdrojov SAV | | Z iných zdrojov | | Zo zdrojov SAV | Z iných zdrojov |
| | | | Spolu | Pre organizáciu | Spolu | Pre organizáciu | | |
| 1. Projekty 7. RP EÚ a Horizont 2020 | 0 | 5 | - | - | - | - | - | 113851 |
| 2. Projekty ERA.NET, ESA, JRP | 0 | 0 | - | - | - | - | - | - |
| 3. Projekty COST | 0 | 4 | - | - | - | - | - | - |
| 4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné | 1 | 0 | - | - | 7582 | 7582 | - | - |
| 5. Projekty v rámci medzivládnych dohôd | 2 | 0 | - | - | - | - | - | - |
| 6. Bilaterálne projekty MAD | 2 | 0 | - | - | - | - | - | - |
| 7. Bilaterálne projekty ostatné | 2 | 0 | 20833 | 20833 | - | - | - | - |
| 8. Podpora MVTs z národných zdrojov (SAV, APVV a iné) | 1 | 9 | 25000 | 25000 | - | - | 21736 | - |
| 9. Iné projekty | 0 | 0 | - | - | - | - | - | - |

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont 2020 podané v roku 2017

Tabuľka 2d Počet projektov Horizont 2020 v roku 2017

| | A | B |
|---|---|---|
| Počet podaných projektov Horizont 2020 | 1 | 1 |

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

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

2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

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

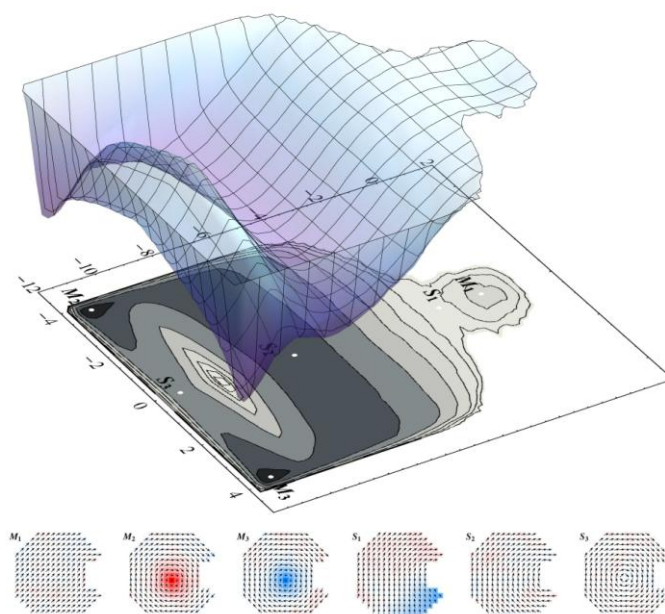
2.3.1. Základný výskum

Názov: Výpočet povrchov voľnej energie magnetických systémov pomocou metadynamiky

Riešitelia: J. Tóvik, V. Cambel

Projekty, v rámci ktorých sa dosiahol výsledok: APVV 0088-12 a 16-0068, VEGA 2/0180/14 a 2/0200/14

Znalosť výšky energetických bariér, ktoré oddeľujú rôzne stavy v systéme, je kritická na určenie dlhodobej stability informácie uloženej v magnetických pamätiach. Túto informáciu je však ťažké získať priamo pomocou simulácií štandardných mikroskopických modelov vzhľadom na problém škálovania času, ktorý vyplýva z faktu, že prechod medzi dvoma minimami má charakter náhodného procesu. V našej práci ukazujeme, že využitím algoritmu metadynamiky s využitím vhodne zvolených kolektívnych premenných, menovite helicity a cirkulácie, je možné skonštruovať profil voľnej energie. Ukazujeme efektívnosť nového prístupu na príklade vzniku magnetického víru v nanobodke so zníženou symetriou. Pomocou rekonštrukcie povrchu voľnej energie poukazujeme na pôvod zlomu symetrie počas vzniku víru, keď je jedna polarita víru preferovaná napriek tomu, že vonkajšie magnetické pole je aplikované v rovine bodky.



Výstup:

TÓBIK, Jaroslav - MARTOŇÁK, R. - CAMBEL, Vladimír. Free-energy landscapes in magnetic systems from metadynamics. In Physical Review B, 2017, vol. 96, r140413. (3.836 - IF2016). (2017 - Current Contents). ISSN 1550-235X.

2.3.2. Aplikčný typ

Názov: Vertikálny GaN tranzistor s izolačným kanálom a spôsob jeho prípravy

Riešiteľ: J. Kuzmík

Projekt, v rámci ktorého sa dosiahol výsledok: APVV 15-0031 a 15-0673

Zabezpečenie ekologického rozvoja spoločnosti je úzko späté s vytváraním nových možností na efektívne využívanie dostupných zdrojov energie. Jednou z možností je minimalizovať straty v elektrických prevodníkoch výkonu. Pri potrebe maximalizovať výkon a minimalizovať straty pri takomto prevode, použitie výkonových tranzistorov na báze GaN polovodičov je mimoriadne vhodné riešenie.

GaN je chemicky stály polovodičový materiál s energetickou medzerou 3,4 eV, čo ho predurčuje pre aplikácie v nehostinom prostredí a zvýšené teploty prevyšujúce 300 °C. Okrem toho, vysoká driftová rýchlosť elektrónov v GaN okolo 1×10^5 m/s umožňuje spínanie tranzistorov pri vysokej frekvencií. Spomenuté materiálové parametre sú mimoriadne vhodné na konštrukciu výkonových vysokofrekvenčných tranzistorov a prevodníkov s vysokou účinnosťou.

Podstatou vynálezu je vertikálny GaN tranzistor, ktorý pozostáva z elektródy emitora umiestnenej na vrchnej kontaktovej n^+ GaN vrstve, elektródy kolektora privedenej odspodu na GaN substráte a hradla. Elektróda hradla je vytvorená vertikálne pozdĺž kanálovej izolačnej GaN vrstvy a je oddelená od GaN polovodiča dielektrickou izolačnou vrstvou s väčšou šírkou energetickej medzery ako je v GaN. Izolačný charakter kanálovej GaN vrstvy zaručuje obohacovací mód tranzistora a tak isto umožňuje masívnu konštrukciu tranzistora, bez nutnosti nano-tvarovania, paralelnej kombinácie viacerých kanálov a mostíkového prepojenia elektród emitora.

Výkonové obohacovacie tranzistory s izolačnou GaN kanálovou vrstvou nájdu uplatnenie vo vysoko účinných prevodníkoch elektrického výkonu. Uplatnenie nájdu v generácií a rozvoje elektrickej energie, ale aj v napájacích a pohonných jednotkách elektromobilov.

Výstupy: Prihláška patentu č. PP50074-2017

2.3.3. Medzinárodné vedecké projekty

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

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

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

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

Heteroštruktúrne tranzistory na báze nitridu gália (GaN) predstavujú novú generáciu elektronických súčiastok pre výkonové a telekomunikačné aplikácie. Napriek postupnej industrializácii elektroniky na báze GaN však chýba základné porozumenie rozloženia náboja na rozhraní oxid/polovodič hradlovej štruktúry MOS, ktoré má priamy vplyv na nastavenie prahového napätia výslednej súčiastky. Stále nezodpovedanou otázkou zostáva pôvod povrchového náboja GaN polovodiča. V súbore prác sme realizovali niekoľko technologických prístupov na manipuláciu hustoty povrchových nábojov v GaN MOS tranzistoroch s oxidovou vrstvou

pripravenou rôznymi technológiami. Pri výskume sme najskôr vyhodnotili všetky relevantné náboje na rozhraní oxid/polovodič. Tie sme následne korelovali s mikroštruktúrnymi a chemickými vlastnosťami rozhrania. Výsledky ukazujú možnosti manipulácie veľkosti povrchových nábojov a naznačujú pôvod ich vzniku. Tieto poznatky sú nevyhnutné pre vývoj technológie budúcej generácie rýchlych výkonových GaN tranzistorov.

Výstupy:

ĎAPAJNA, Milan - STOKLAS, Roman - GREGUŠOVÁ, Dagmar - GUCMANN, Filip - HUŠEKOVÁ, Kristína - HASČÍK, Štefan - FRÖHLICH, Karol - TÓTH, L. - PÉCZ, B. - BRUNNER, F. - KUZMÍK, Ján. Investigation of 'surface donors' in Al₂O₃/AlGaIn/GaN metal-oxide-semiconductor heterostructures: Correlation of electrical, structural, and chemical properties. In Applied Surface Science, 2017, vol. 426, p. 656-661. (3.387 - IF2016). (2017 - Current Contents). ISSN 0169-4332.

ĎAPAJNA, Milan - VÁLIK, Lukáš - GUCMANN, Filip - GREGUŠOVÁ, Dagmar - FRÖHLICH, Karol - HASČÍK, Štefan - DOBROČKA, Edmund - TÓTH, L. - PÉCZ, B. - KUZMÍK, Ján. Low-temperature atomic layer deposition-grown Al₂O₃ gate dielectric for GaN/AlGaIn/GaN MOS HEMTs: Impact of deposition conditions on interface state density. In Journal of Vacuum Science and Technology B: Microelectronics and Nanometer Structures, 2017, vol. 35, 01A107. (1.573 - IF2016). (2017 - Current Contents). ISSN 1071-1023.

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

| PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ | Počet v r. 2017/ doplňky z r. 2016 |
|--|---|
| 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) | 74 / 0 |
| 10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADN B) | 7 / 0 |
| 11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB) | 1 / 0 |
| 12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB) | 2 / 0 |
| 13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA) | 0 / 0 |
| 14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA) | 0 / 0 |
| 15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD) | 22 / 0 |
| 16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC) | 2 / 0 |
| 17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS | 1 |
| 18. Ostatné vydané periodiká | 0 |
| 19. Zostavovateľské práce knižného charakteru (FAI) | 0 / 0 |
| 20. Preklady vedeckých a odborných textov (EAJ) | 0 / 0 |
| 21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB) | 0 / 0 |
| 22. Recenzie v časopisoch a zborníkoch (EDI) | 0 / 0 |

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

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

| Kvartil vedeckého časopisu | Q1 | Q2 | Q3 | Q4 | Spolu |
|---|-----------|-----------|-----------|-----------|--------------|
| Podľa IF z r. 2016 (zdroj JCR) <i>Počet článkov / doplnky 2015</i> | 23 / 0 | 27 / 0 | 19 / 0 | 6 / 0 | 75 / 0 |
| Podľa SJR z r. 2016 (zdroj Scimago) <i>Počet článkov / doplnky 2015</i> | 50 / 0 | 19 / 0 | 9 / 0 | 0 / 0 | 78 / 0 |

Tabuľka 2g Ohlasy

| OHLASY | Počet v r. 2016/ doplnky z r. 2015 |
|--|---|
| Citácie vo WOS (1.1, 2.1) | 1093 / 51 |
| Citácie v SCOPUS (1.2, 2.2) | 89 / 14 |
| Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2) | 1 / 0 |
| Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1) | 47 / 1 |
| Recenzie na práce autorov z organizácie (5, 6, 7, 8) | 0 / 0 |

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

| | |
|--|----|
| Prednášky a vývesky na medzinárodných vedeckých podujatiach | 78 |
| Prednášky a vývesky na domácich vedeckých podujatiach | 24 |

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

1. **Cambel, V.**, Precner, M., Fedor, J., Šoltýs, J., Tóbbik, J., Ščepka, T., and Karapetrov, G.: Exploring magnetic state of ferromagnetic nanostructures. 7th Inter. Conf. Nanomater.: Application & Properties '2017. Zatoka (Ukrajina) 2017.
2. **Dobročka, E.**, Hasenöhrl, S., Chauhan, P., and Kuzmík, J.: Non-conventional scans in highresolution X-ray diffraction analysis of epitaxial systems. 5th Inter. Conf. "Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News " (SURFINT-SREN V). Florence 2017.
3. **Gömöry, F.**, Solovyov, M., and Šouc, J.: Two-shell superconductor/ferromagnetic cloaks for shielding of magnetic fields. 30th Inter. Symp. on Supercond. - ISS 2017. Tokyo 2017.
4. **Gregušová, D.**, Kúdela, R., Stoklas, R., Gucmann, F., Pohorelec, O., Blaho, M., Brytavskiy, I.V., and Rosová, A.: III-V-based high electron mobility transistor properties influenced by a capping layer modified heterostructure surface. 5th Inter. Conf. "Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News " (SURFINT-SREN V). Florence 2017.
5. **Kuzmík, J.**: GaN-based normally-off HEMTs for switching and logic applications. 3rd Intensive Discussion on Growth of Nitride Semiconductors (IDGN-3). Tohoku Univ. 2017.
6. **Mruczkiewicz, M.**: Spin excitations in ultrathin films with Dzyaloshinskii-Moriya interaction: Nonreciprocal spin waves and skyrmion dynamics. Workshop MagIC 2017

Magnetism, Interactions and Complexity: a multifunctional aspects of spin wave dynamics. Poznaň 2017.

7. **Novák, J.**, Laurenčíková, A., Hasenöhrl, S., Eliáš, P., Kováč, J., Sojková, M., and Kováč, J.jr.: Nanorods and nanocones for advanced sensor applications. 5th Inter. Conf. "Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News " (SURFINT-SREN V). Florence 2017.
8. **Ťapajna, M.**, Gregušová, D., Fröhlich, K., and Kuzmík, J.: Current Understanding and Challenges of Metal-Oxide-Semiconductor Gated GaN HFETs. 6th Inter.Symp. Organic Inorganic Electronic Mater. Related Nanotechnol. - EM-NANO 2017. Fukui 2017.
9. Mikolášek, M., **Fröhlich, K.**, Ťapajna, M., Hušeková, K., Novak, P., Racko, J., Rehacek, V., Ondrejka, P., Chymo, F., and Harmatha, L.: Perspective silicon and metal oxide based structures for photoelectrochemical water splitting. 5th Inter. Conf. "Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News " (SURFINT-SREN V). Florence 2017.
10. Šagátová, A., **Zat'ko, B.**, Nečas, V., Dubecký, F., Tu, L.A., Sedlačková, K., Boháček, P., and Zápražný, Z.: From single GaAs detector to sensor for radiation imaging camera. 5th Inter. Conf. "Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News " (SURFINT-SREN V). Florence 2017.

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

1. **Precner, M.**, Fedor, J., Šoltýs, J., and Cambel, V.: Novel scanning methods for the magnetic force microscopy. Drexel Univ., USA 2017.

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

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2017

2.7.1. Vynálezy, na ktoré bol udelený patent

2.7.2. Prihlásené vynálezy

Na Slovensku - počet patentov: 2

Číslo PV: PP50074-2017

Mená autorov: Kuzmík Ján

Názov vynálezu: Vertikálny GaN tranzistor s izolačným kanálom a spôsob jeho prípravy

Majiteľ / spolumajiteľ: Elektrotechnický ústav SAV

Číslo PV: PP50037-2017

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

Názov vynálezu: Supravodič na báze MgB₂ s plášťom na báze Al a spôsob jeho výroby

Majiteľ / spolumajiteľ: Elektrotechnický ústav SAV a Ústav materiálov a mechaniky strojov SAV

2.7.3. Predané licencie**2.7.4. Realizované patenty**

Finančný prínos pre organizáciu SAV v roku 2017 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 |
|------------------|-----------------------------|-----------------------------|
| Dobročka Edmund | VEGA | 1 |
| Gregušová Dagmar | MAD projekt SAV-BAV | 1 |
| Hulman Martin | APVV SK-FR 2016 | 1 |
| | APVV SK-TW 2016 | 1 |
| Kováč Pavol | APVV | 1 |
| Novák Jozef | VEGA | 1 |
| Osvald Jozef | VEGA | 1 |
| Šoltýs Ján | MAD projekt SAV-BAV | 1 |
| Ťapajna Milan | KEGA 2017 | 1 |
| Tóvik Jaroslav | VEGA | 1 |
| Zat'ko Bohumír | APVV SK-TW2017 | 1 |
| | APVV VV2016 | 1 |

2.9. Účast' na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Recenzovanie publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet recenzovaných monografií, článkov, zborníkov

| Meno pracovníka | Knížné monografie | | Príspevky v časopisoch | | | Zborníky | |
|----------------------|-------------------|-------------|------------------------|--------------|---------|----------|-------------|
| | Domáce | Zahra-ničné | WoS, SCOPUS | Iné databázy | Ostatné | Domáce | Zahra-ničné |
| Cambel Vladimír | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| Fröhlich Karol | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| Gömöry Fedor | 0 | 0 | 12 | 0 | 0 | 0 | 0 |
| Gregušová Dagmar | 0 | 0 | 12 | 0 | 0 | 1 | 0 |
| Hasenöhrli Stanislav | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Hulman Martin | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Chromik Štefan | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Kováč Ján | 0 | 0 | 1 | 0 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------|----------|----------|------------|----------|----------|----------|----------|
| Kováč Pavol | 0 | 0 | 20 | 0 | 0 | 0 | 0 |
| Kulich Miloslav | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Kuzmík Ján | 0 | 0 | 10 | 0 | 0 | 0 | 0 |
| Laurenčíková Agáta | 0 | 0 | 0 | 0 | 1 | 2 | 0 |
| Novák Jozef | 0 | 0 | 4 | 0 | 0 | 2 | 0 |
| Osvald Jozef | 0 | 0 | 8 | 0 | 0 | 0 | 0 |
| Pardo Enric | 0 | 0 | 15 | 0 | 0 | 0 | 0 |
| Precner Marián | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Sojková Michaela | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Soloviov Mykola | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Stoklas Roman | 0 | 0 | 6 | 0 | 0 | 1 | 0 |
| Španková Marianna | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Ťapajna Milan | 0 | 0 | 17 | 0 | 0 | 0 | 0 |
| Tóvik Jaroslav | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Vanko Gabriel | 0 | 0 | 3 | 0 | 0 | 1 | 0 |
| Vojenčiak Michal | 0 | 0 | 6 | 0 | 0 | 0 | 0 |
| Zaťko Bohumír | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Spolu | 0 | 0 | 139 | 0 | 1 | 7 | 0 |

2.11. Iné informácie k vedeckej činnosti.

3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku

3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2017

| Forma | Počet k 31.12.2017 | | | | | | Počet ukončených doktorantúr v r. 2017 | | | | | |
|------------------------------|--------------------|---|--------------------|---|-----------|---|--|---|---------------------|---|---------------------|---|
| | Doktorandi | | | | | | Ukončenie z dôvodov | | | | | |
| | celkový počet | | z toho novoprijatí | | po skúške | | ukončenie úspešnou obhajobou | | predčasné ukončenie | | neúspešné ukončenie | |
| | M | Ž | M | Ž | M | Ž | M | Ž | M | Ž | M | Ž |
| Denná zo zdrojov SAV | 10 | 3 | 6 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Denná z iných zdrojov | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Externá | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spolu | 12 | 4 | 6 | 1 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Súhrn | 16 | | 7 | | 6 | | 0 | | 0 | | 0 | |

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b Počty preradení z dennej formy na externú a z externej na dennú

| Pôvodná forma | Denná z prostriedkov SAV | Denná z prostriedkov SAV | Denná z iných zdrojov | Denná z iných zdrojov | Externá | Externá |
|---------------|--------------------------|--------------------------|--------------------------|-----------------------|--------------------------|-----------------------|
| Nová forma | Denná z iných zdrojov | Externá | Denná z prostriedkov SAV | Externá | Denná z prostriedkov SAV | Denná z iných zdrojov |
| Počet | 0 | 1 | 0 | 0 | 0 | 0 |

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2017 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 |
|-----------------|----------|---------------------------|----------------------|---------------------------------|------------------------------|-----------------------------------|
|-----------------|----------|---------------------------|----------------------|---------------------------------|------------------------------|-----------------------------------|

Zoznam interných a externých doktorandov je uvedený v prílohe A.

3.4. Medzinárodné doktorandské štúdium

Tabuľka 3d Počet študentov v medzinárodných programoch doktorandského štúdia

| Cotutelle | Co-direction | Iné | Zahraniční doktorandi |
|------------------|---------------------|------------|------------------------------|
| 0 | 0 | 0 | 3 |

3.5. Zoznam akreditovaných študijných odborov s uvedením VŠ

Tabuľka 3e Zoznam akreditovaných študijných odborov s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

| Názov študijného odboru (ŠO) | Číslo ŠO | Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta) |
|--|-----------------|--|
| fyzika kondenzovaných látok a akustika | 4.1.3 | Fakulta matematiky, fyziky a informatiky UK |
| elektronika | 5.2.13 | Fakulta elektrotechniky a informatiky STU |
| fyzikálne inžinierstvo | 5.2.48 | Fakulta elektrotechniky a informatiky STU |

Tabuľka 3f Účasť na pedagogickom procese

| Menný prehľad pracovníkov, ktorí boli menovaní do spoločných odborových komisií pre doktorandské štúdium | Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt | Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnotu alebo vyšší kvalifikačný stupeň |
|---|---|---|
| RNDr. Vladimír Cambel, DrSc. (elektronika) | doc. Ing. Fedor Gömöry, DrSc. (Elektrotechnická fakulta ŽU) | Mgr. Oleg Babchenko, PhD. (IIa) |
| doc. RNDr. Edmund Dobročka, CSc. (fyzikálne inžinierstvo) | doc. Ing. Jozef Novák, DrSc. (Fakulta elektrotechniky a informatiky STU) | RNDr. Antónia Mošková, CSc. (IIa) |
| Ing. Karol Fröhlich, DrSc. (teoretická elektrotechnika) | | Mgr. Michaela Sojková, PhD. (IIa) |
| Ing. Karol Fröhlich, DrSc. (elektrotechnológia a materiály) | | |
| Ing. Karol Fröhlich, DrSc. (elektronika) | | |
| RNDr. Dagmar Gregušová, DrSc. (elektronika) | | |
| Ing. Ján Kuzmík, DrSc. (teoretická elektrotechnika) | | |
| Ing. Ján Kuzmík, DrSc. (elektronika) | | |
| doc. RNDr. Martin Moško, DrSc. (fyzika kondenzovaných látok a akustika) | | |
| doc. RNDr. Martin Moško, DrSc. (chemická fyzika) | | |
| doc. RNDr. Martin Moško, DrSc. (teoretická | | |

| | | |
|--|--|--|
| elektrotechnika) | | |
| doc. RNDr. Martin Moško, DrSc. (fyzikálne inžinierstvo) | | |
| doc. Ing. Jozef Novák, DrSc. (elektronika) | | |
| Ing. Milan Ťapajna, PhD. (elektronika) | | |
| Ing. Gabriel Vanko, PhD. (elektronika) | | |

3.6. Údaje o pedagogickej činnosti

Tabuľka 3g Prednášky a cvičenia vedené v roku 2017

| PEDAGOGICKÁ ČINNOSŤ | Prednášky | | Cvičenia a semináre | |
|--|-----------|-------------|---------------------|-------------|
| | doma | v zahraničí | doma | v zahraničí |
| Počet prednášateľov alebo vedúcich cvičení | 2 | 1 | 1 | 0 |
| Celkový počet hodín v r. 2017 | 11 | 2 | 7 | 0 |

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

Tabuľka 3h Aktivity pracovníkov na VŠ

| | | |
|----|---|----|
| 1. | Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác | 7 |
| 2. | Počet vedených alebo konzultovaných diplomových a bakalárskych prác | 7 |
| 3. | Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.) | 11 |
| 4. | Počet školených doktorandov (aj pre iné inštitúcie) | 16 |
| 5. | Počet oponovaných dizertačných a habilitačných prác | 3 |
| 6. | Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce | 3 |
| 7. | Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác | 1 |
| 8. | Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác | 2 |
| 9. | Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách | 1 |

3.7. Iné dôležité informácie k pedagogickej činnosti

V škol. roku 2017/2018 stúpol počet doktorandov na dvojnásobok.

Na PhD štúdium boli prijatí dvaja zahraniční doktorandi Mgr. Konstantin Bublikov z RF a Ing. Anang Dadhich z Indie. Po vyriešení problémov s cudzineckou políciou K. Bublikov nastúpil s trojmesačným, A. Dadhich s štvormesačným oneskorením.

Pracovníci ústavu pripravovali študentov formou VPS

- F. Gömöry (E. Mikulášová, R. Ries diplomanti MTF STU)
- D. Gregušová (O. Pohorelec diplomant FEI STU, S. Kern bakalár FMFI UK)
- J. Kováč (M. Buran bakalár FEI STU)
- Rosová (B. Szundyová diplomant FEI STU)
- E. Seiler (A. Fos bakalár FEI STU)
- M. Soloviov (Kucharovič bakalár FEI STU)
- J. Šouc (T. Kujovič diplomant SjF STU)
- M. Ťapajna (J. Drobný diplomant FEI STU)
- M. Vojenčiak (M. Mošat' diplomant FEI STU)
- Zaťko (D. Kubanda diplomant, M. Mislik bakalár FEI STU)

D. Gregušová, A. Laurenčíková, M. Blaho, zorganizovali Praktikum z oblasti prípravy a charakterizácie GaN tranzistorov pre študentov FMFI UK február - marec 2017.

F. Gömöry, M. Vojenčiak, M. Soloviov, L. Frolek uskutočnili prednášky a praktická zo supravodivosti pre študentov FEI STU - október 2017.

E. Dobročka prednášal semestrálny cyklus pre doktorandov a ďalších pracovníkov I. oddelenia SAV, „Metódy diagnostiky materiálov“.

Pracovníci ústavu pôsobili v komisiách SKVH a komisiách pre obhajoby DDP za EIÚ SAV:

Zloženie komisií pre obhajoby DDP na 5-ročné funkčné obdobie od 1. 4. 2016

Elektrotechnika, automatizácia a riadiace systémy

- elektrotechnológie a materiály – 020205
- mikroelektronika – 020211
- optoelektronika – 020212
- rádioelektronika – 020213

Predseda stálej komisie

- Ing. Karol Fröhlich, DrSc., EIÚ SAV v Bratislave

Členovia stálej komisie

- Ing. Pavol Kováč, DrSc., EIÚ SAV v Bratislave
- Ing. Ján Kuzmík, DrSc., EIÚ SAV v Bratislave

Elektrotechnika, automatizácia a riadiace systémy:

- teoretická elektrotechnika – 020201
- elektrické stroje a prístroje – 020204
- výroba a rozvod elektrickej energie – 020209

Predseda komisie "ad hoc"

- doc. Ing. Fedor Gömöry, DrSc., EIÚ SAV v Bratislave

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2017 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

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

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

| Meno pracovníka | Programový | Organizačný | Programový i organizačný |
|-----------------|------------|-------------|--------------------------|
| Dobročka Edmund | 0 | 0 | 1 |
| Gömöry Fedor | 0 | 1 | 0 |
| Kuzmík Ján | 0 | 0 | 1 |
| Novák Jozef | 1 | 0 | 0 |
| Vanko Gabriel | 1 | 0 | 0 |
| Spolu | 2 | 1 | 2 |

4.2. Členstvo a funkcie v medzinárodných orgánoch

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

Ing. Pavol Kováč, DrSc.

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

Mgr. Enric Pardo, PhD.

HTS Modelling Workgroup (funkcia: člen)

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

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

| Meno pracovníka | Typ programu/projektu/výzvy | Počet hodnotených projektov |
|-----------------|---------------------------------|-----------------------------|
| Tóvik Jaroslav | National Science Center, Poland | 1 |

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

MAD s Inštitútom fyziky PAV - Poľsko, Varšava – riešenie projektu (Príprava a vlastnosti supravodivých, magnetických, a dielektrických vrstiev pre kryoelektronické štruktúry), v rámci riešenia projektu z Inštitútu fyziky navštívili oddelenie Dr. I. Zaytseva a Dr. P. Gierlowski a realizovali sa experimenty.

V rámci MAD sa uskutočnila pracovná cesta Ing. Š. Chromika, DrSc., na Univ. Beersheva, Izrael (prof. G. Jung) a na Racah Institute of Physics, The Hebrew Univ. Jerusalem, kde prebehli a prebiehajú analýzy vzoriek pripravené na EIÚ, merania vzoriek tenkých vrstiev Nb nanesených na cylindrickú podložku.

MAD s Institute of Electronics BAS – riešenie projektu (Perovskitovské heteroštruktúry nanometrových hrúbok pre senzory a spintroniku). Výsledky získané v rámci projektu boli prezentované (V. Štrbík) na konferencii VEIT 2017 formou vývesky a podaného článku.

Dosiahnuté výsledky pri riešení projektu:

Sojková, M., Nurgaliev, T., Štrbík, V., Chromik, Š., Blagoev, B., Španková, M., : LSMO/YBCO heterostructures and investigation of „negative“ resistance effect in the interface. Acta Phys. Polonica A 131

V. Štrbík, T. Nurgaliev, M. Sojková, Š. Chromik, M. Španková, N. Gál, B. Blagoev, Properties of LSMO/YBCO cross-strip type junctions, . J. Phys.: Conf. Ser., accepted.

Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe E.

Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe B.

5. Vedná politika

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

6.1. Spolupráca s univerzitami/VŠ (fakultami)

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

Druh spolupráce (spoločné pracovisko alebo iné): iné

Začiatok spolupráce: 1992

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

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

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

Druh spolupráce (spoločné pracovisko alebo iné): iné

Začiatok spolupráce: 1969

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

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

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

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

Začiatok spolupráce: 2012

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

Zhodnotenie: aktívna spolupráca, príprava spoločnej publikácie

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

Druh spolupráce (spoločné pracovisko alebo iné): výskum

Začiatok spolupráce: 2014

Zameranie: výskum 2D materiálov, grafén, elektrónová mikroskopia

Zhodnotenie: aktívna spolupráca, spoločná publikácia

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

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

Začiatok spolupráce: 2012

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

Zhodnotenie: aktívna spolupráca, príprava spoločnej publikácie

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

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

Začiatok spolupráce: 2012

Zameranie: MEMS, laserová ablácia, mikroelektronika, senzorika

Zhodnotenie: bolo publikovaných niekoľko spoločných príspevkov vo vedeckých periodikách a konferenčných zborníkoch v zmienenej tematike

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

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

Začiatok spolupráce: 2016

Zameranie: Numerická simulácia stabilizácie skyrmiónu a jeho dynamiky

Zhodnotenie: aktívna spolupráca

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

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

Začiatok spolupráce: 2016

Zameranie: Analytické výpočty a numerické simulácie dynamiky skyrmiónov

Zhodnotenie: sľubne sa rozvíjajúca spolupráca, príprava publikácie

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

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

Začiatok spolupráce: 2016

Zameranie: Simulácie a experiment stabilizácie skyrmiónu v mnohovrstvovej nanobodke

Zhodnotenie: sľubne sa rozvíjajúca spolupráca

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

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

Začiatok spolupráce: 2016

Zameranie: BLS merania DMI konštanty

Zhodnotenie: aktívna spolupráca, nový doktorand (K. Bublikov)

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

6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe

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

7.1. Spoločné pracoviská s aplikačnou sférou

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov kontraktu: Modelovanie distribúcie prúdu a AC strát v HTS cievke pre motory

Partner(i): OSWALD Elektromotoren GmbH

Začiatok spolupráce (v súlade s podpísaným kontraktom): 2016

Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2017

Objem získaných prostriedkov v bežnom roku (€): 4925

Stručný opis výstupu/výsledku: Modelovanie AC strát a prúdovej distribúcie vo vinutí statora pripravených z REBCO HTS vinutí. Toto vedie k stratégiám na redukciu AC strát pre supravodivé motory.

Zhodnotenie: Spolupráca pokračuje v rámci projektu Horizon 2020 - ASuMED

Názov kontraktu: Oprava demagnetizácie z magnetických meraní materiálov s vysokou permeabilitou

Partner(i): FOESTER GmbH

Začiatok spolupráce (v súlade s podpísaným kontraktom): 2016

Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2017

Objem získaných prostriedkov v bežnom roku (€): 8550

Stručný opis výstupu/výsledku: Modelovanie vplyvu demagnetizácie v magnetických meraniach materiálov s vysokou permeabilitou

Zhodnotenie:

7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe

Spolupráca s United Monolithic Semiconductors Ulm, Germany

Stručný opis výstupu/výsledku: optimalizácia ohmických kontaktov pre RF tranzistory typu HEMT
Graff A., Simon-Najasek M., Altmann F., Kuzmik J., Gregusova D., Hascik S., Jung J., Baur T., Grunenputt J., Blanck H.: High resolution physical analysis of ohmic contact formation at GaN-HEMT devices, Microelectronics Reliability 76-77 (2017).

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

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

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

| Meno pracovníka | Názov orgánu | Funkcia |
|-------------------------------|-------------------------------------|--|
| RNDr. Vladimír Cambel, DrSc. | Komisia pre SUJV Dubna pri vláde SR | člen |
| doc. Ing. Fedor Gömöry, DrSc. | Akreditačná komisia | člen Pracovnej skupiny pre elektrotechniku |
| | SKVH | člen |
| Ing. Pavol Kováč, DrSc. | SKVH | člen |

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

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

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

| Meno pracovníka | Názov orgánu | Funkcia |
|-------------------------------|-----------------------------|--|
| Ing. Karol Fröhlich, DrSc. | Grantová agentúra MŠ - APVV | Člen Rady pre program Podpora výskumu a vývoja v podnikoch a podpora spolupráce podnikov s výskumnými organizáciami na obdobie rokov 2016 – 2019 (VVP) |
| doc. Ing. Fedor Gömöry, DrSc. | Grantová agentúra MŠ - APVV | Člen Rady pre technické vedy |

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

9. Vedecko-organizačné a popularizačné aktivity

9.1. Vedecko-popularizačná činnosť

Tabuľka 9a Súhrnné počty vedecko-popularizačných činností organizácie SAV

| Typ | Počet | Typ | Počet | Typ | Počet |
|------------------|-------|----------------------|-------|--------------------|-------|
| prednášky/besedy | 4 | tlač | 4 | TV | 0 |
| rozhlas | 1 | internet | 3 | exkurzie | 2 |
| publikácie | 0 | multimediálne nosiče | 0 | dokumentárne filmy | 0 |
| iné | 1 | | | | |

9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

| Názov podujatia | Domáca/ medzinárodná | Miesto | Dátum konania | Počet účastníkov |
|-----------------|-------------------------|--------|---------------|---------------------|
|-----------------|-------------------------|--------|---------------|---------------------|

9.3. Účasť na výstavách

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9c Programové a organizačné výbory národných konferencií

| Meno pracovníka | Programový | Organizačný | Programový i organizačný |
|-----------------|------------|-------------|--------------------------|
| Novák Jozef | 1 | 0 | 0 |
| Spolu | 1 | 0 | 0 |

9.5. Členstvo v redakčných radách časopisov

Ing. Karol Fröhlich, DrSc.

Material Science in Semiconductor Processing (funkcia: člen)

Ing. Štefan Chromik, DrSc.

ICRN Condensed Matter Physics (funkcia: člen)

Ing. Pavol Kováč, DrSc.

Superconductor Science and Technology (funkcia: člen)

Ing. Tibor Lalinský, DrSc.

Open Electrical and Electronic Engineering Journal (funkcia: člen)

doc. Ing. Jozef Novák, DrSc.

Journal of Electrical Engineering (funkcia: člen)

Material Science in Semiconductor Processing (funkcia: člen)

Ing. Jozef Osvald, DrSc.

Materials Science in Semiconductor Processing (funkcia: člen)

Mgr. Enric Pardo, PhD.

European Conference on Applied Superconductivity (EUCAS) 2017 (funkcia: Technický editor)

9.6. Činnosť v domácich vedeckých spoločnostiach

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

V rámci Dňa otvorených dverí ústav navštívilo 316 žiakov so svojimi pedagógmi z:

Cirkevná ZŠ Narnia

ZŠ Stupava

SPŠE Zochova

SPŠE Hálova

SPŠE Adlera

Gymnázium Metodova

Gymnázium Pezinok

Gymnázium Malacky



10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

| | | |
|--|---|------|
| Knižničné jednotky spolu | | 8271 |
| z toho | knihy a zviazané periodiká | 7312 |
| | audiovizuálne dokumenty | 0 |
| | elektronické dokumenty (vrátane digitálnych) | 144 |
| | mikroformy | 0 |
| | iné špeciálne dokumenty - dizertácie, výskumné správy | 815 |
| | Rukopisy, vzácne tlače | 0 |
| Počet titulov dochádzajúcich periodík | | 6 |
| z toho zahraničné periodiká | | 3 |
| Ročný prírastok knižničných jednotiek | | 7 |
| v tom | kúpou | 7 |
| | darom | 0 |
| | výmenou | 0 |
| | bezodplatným prevodom | 0 |
| | náhradou | 0 |
| Úbytky knižničných jednotiek | | 0 |
| Knižničné jednotky spracované automatizovane | | 7312 |

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

Výraz „**z toho**“ označuje neúplné (výberové) údaje, ktorých súčet sa nemusí rovnať údaju v riadku „spolu“.

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

| | | |
|-----------------------------------|----------------------------------|---|
| Výpožičky spolu (riadok 1) | | 2 |
| v tom z r. 1 | prezenčné výpožičky | 0 |
| | absenčné výpožičky | 2 |
| v tom z r. 1 | odborná literatúra pre dospelých | 2 |
| | výpožičky periodík | 0 |
| MVS iným knižniciam | | 0 |
| MVS z iných knižníc | | 0 |
| MMVS iným knižniciam | | 0 |
| MMVS z iných knižníc | | 0 |
| Počet vypracovaných bibliografií | | 0 |

| | |
|-----------------------------|-----|
| Počet vypracovaných rešerší | 365 |
|-----------------------------|-----|

10.3. Používatelia

Tabuľka 10c Používatelia

| | |
|--|-----|
| Registrovaní používatelia | 102 |
| Návštevníci knižnice spolu (bez návštevníkov podujatí) | 0 |

10.4. Iné údaje

Tabuľka 10d Iné údaje

| | |
|---|------|
| On-line katalóg knižnice na internete (1=áno, 0=nie) | 1 |
| Náklady na nákup knižničného fondu v € | 3465 |

10.5. Iné informácie o knižničnej činnosti

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

doc. Ing. Fedor Gömöry, DrSc.

- člen

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

Ing. Karol Fröhlich, DrSc.

- člen Predsedníctva a VR do júna 2017

11.3. Členstvo vo vedeckých kolégiách SAV

RNDr. Vladimír Cambel, DrSc.

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

Ing. Pavol Kováč, DrSc.

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

doc. RNDr. Martin Moško, DrSc.

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

11.4. Členstvo v komisiách SAV

Ing. Karol Fröhlich, DrSc.

- Akreditačná komisia SAV (podpredseda do júna 2017)
- Komisia pre transformáciu SAV (člen do júna 2017)
- Komisia SAV pre ekonomické otázky (člen do júna 2017)
- Komisia SAV pre infraštruktúru a štrukturálne fondy (člen do júna 2017)
- Komisia SAV pre vesmírne aktivity (člen)
- Komisia SAV pre vyhodnocovanie medzinárodných projektov (predseda do júna 2017)
- Komisia SAV pre zahraničné styky (člen do júna 2017)
- Rada SAV pre vzdelávanie a doktorandské štúdium (člen do júna 2017)

doc. Ing. Fedor Gömöry, DrSc.

- Komisia SAV pre informačné a komunikačné technológie (člen)
- Komisia SAV pre infraštruktúru a štrukturálne fondy (člen - zástupca Snemu SAV)
- Komisia SAV pre medzinárodnú vedecko-technickú spoluprácu (člen - zástupca Snemu SAV)
- Komisia SAV pre vyhodnocovanie medzinárodných projektov (člen)
- Komisia SAV pre zahraničné styky (člen)
- Rada SAV pre vzdelávanie a doktorandské štúdium (člen)

doc. RNDr. Martin Moško, DrSc.

- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (člen)

11.5. Členstvo v orgánoch VEGA

doc. RNDr. Edmund Dobročka, CSc.

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

Dr. rer. nat. Martin Hulman

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

Ing. Štefan Chromik, DrSc.

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

Ing. Jozef Osvald, DrSc.

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

12. Hospodárenie organizácie

12.1. Výdavky PO SAV

Tabuľka 12a Výdavky PO SAV (v €)

| V ý d a v k y | Skutočnosť k 31.12.2017 spolu | v tom: | | | |
|---|-------------------------------------|--------------------------|------------------------|--------------------|------------------|
| | | zo ŠR od zriaďovateľa | z vlastných zdrojov | z iných zdrojov | z toho: ŠF EÚ |
| Výdavky spolu | 3 232 278,45 | 1 982 576,50 | 239 789,81 | 1 009 912,14 | 59 865,50 |
| Bežné výdavky | 3 102 597,42 | 1 935 576,50 | 157 108,78 | 1 009 912,14 | 59 865,50 |
| v tom: | | | | | |
| mzdy (610) | 1 575 971,93 | 1 184 992,00 | 60 357,72 | 330 622,21 | 44 361,59 |
| poistné a príspevok do poisťovní (620) | 536 754,60 | 398 175,00 | 22 941,81 | 115 637,79 | 15 503,91 |
| tovary a služby (630) | 681 745,49 | 280 710,00 | 50 218,35 | 350 817,14 | |
| z toho: časopisy | 1 880,62 | 902,00 | 978,62 | | |
| VEGA projekty | 137 906,00 | 137 906,00 | | | |
| MVTS projekty | 57 569,00 | 57 569,00 | | | |
| CE/SASPRO | 25 809,00 | 25 809,00 | | | |
| vedecká výchova | 4 400,00 | 4 400,00 | | | |
| bežné transfery (640) | 308 125,40 | 71 699,50 | 23 590,90 | 212 835,00 | 0,00 |
| z toho: štipendiá | 69 133,00 | 69 133,00 | | | |
| transfery partnerom projektov | 238 992,40 | 2 566,50 | 23 590,90 | 212 835,00 | |
| Kapitálové výdavky | 129 681,03 | 47 000,00 | 82 681,03 | 0,00 | 0,00 |
| v tom: | | | | | |
| obstarávanie kapitálových aktív | 129 681,03 | 47 000,00 | 82 681,03 | | |
| kapitálové transfery | 0,00 | | | | |
| z toho: transfery partnerom projektov | 0,00 | | | | |

12.2. Príjmy PO SAV

Tabuľka 12b Príjmy PO SAV (v €)

| P r í j m y | Skutočnosť k 31.12.2017 spolu | v tom: | |
|---|--|-------------------|----------------------------|
| | | rozpočtové | z mimorozp. zdrojov |
| Príjmy spolu | 3 328 452,34 | 1 982 577,00 | 1 345 875,34 |
| Nedaňové príjmy | 2 033 169,88 | 1 982 577,00 | 50 592,88 |
| v tom: | | | |
| príjmy z prenájmu | 0,00 | | |
| príjmy z predaja výrobkov a služieb | 49 090,35 | | 49 090,35 |
| iné | 1 502,53 | | 1 502,53 |
| Granty a transfery (mimo zdroja 111) | 1 295 282,46 | 0,00 | 1 295 282,46 |
| v tom: | | | |
| tuzemské | 761 183,00 | | 761 183,00 |
| z toho: APVV | 761 183,00 | | 761 183,00 |
| iné | 0,00 | | |
| zahraničné | 534 099,46 | | 534 099,46 |
| z toho: projekty rámcového programu EÚ | 534 099,46 | | 534 099,46 |
| iné | 0,00 | | 0,00 |

13. Nadácie a fondy pri organizácii SAV

14. Iné významné činnosti organizácie SAV

V r. 2017 investoval EIÚ SAV veľa prostriedkov do opráv prístrojov a zariadení. Opravili sme starší transmisný elektrónový mikroskop a vybavili ho novou polovodičovou kamerou. Opravili sme aj ďalšie zariadenia, na ktorých sa prejavili prevádzkové poruchy – FIB, AFM, SEM, PPMS a MOCVD.

V r. 2017 sme investovali veľa prostriedkov do rekonštrukcie budovy. Opravili sme schodisko, zasadačku, vestibul a 8 kancelárií v hlavnej budove. Celkové náklady ústavu na tieto stavebné práce spolu s opravami zariadení boli viac ako 200 tisíc €.

Pobyty zahraničných pracovníkov na EIÚ

Študijné a postdoktorandské pobyty hradené vysielajúcimi pracoviskami:

| Meno | Krajina | Inštitúcia | Trvanie |
|--------------------|---------|--|-------------|
| A. Ghabeli Juybari | Irán | Shahed University, Tehran, Iran | 1 mesiac |
| Y. Nagasaki | USA | NASA - Ames Research Center Moffat Field, CA | 12 mesiacov |
| A.R. Insinga | Dánsko | DTU Lyngby | 2 mesiace |
| F. Inanir | Turecko | Recep Tayyip Erdogan University, Rize | 1 mesiac |

Študijné a postdoktorandské pobyty hradené štipendiom SAIA:

| Meno | Krajina | Inštitúcia | Trvanie |
|---------------|------------|-----------------------------------|-----------|
| J. Brytavskiy | Ukrajina | Univ. Odesa | 3 mesiace |
| E. Miranda | Španielsko | Universitat Autònoma de Barcelona | 1 mesiac |

Pre projekt Horizon 2020-723119 *Advanced superconducting motor experimental demonstrator* Ústav zamestnáva Dr. Shuo Li z Číny.

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2017

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

15.1.2. Iné domáce ocenenia

Blaho Michal

Študentská osobnosť Slovenska akad. r. 2016/2017

Oceňovateľ: Junior Chamber International-Slovakia

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

15.2. Medzinárodné ocenenia

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

17. Problémy a podnety pre činnosť SAV

- a) Zverejniť zoznam infraštruktúry v areáli SAV aj s podmienkami na prístup k nej;
- b) obmedziť financie pre viacnásobne zamestnané osoby (SAV, VŠ, a pod.);
- c) presadiť výkonové financovanie do života SAV;
- d) zjednodušiť servis v areáli (opravy elektroinštalácie, kúrenia, vody a pod.);
- e) prijať jednotné zásady zamestnávania post-doktorandov a vedeckých pracovníkov (zásady odchodu do dôchodku – vo forme odporúčacej smernice);
- f) obnoviť niektoré športoviská v areáli (napr. volejbalové ihrisko za Ústavom merania);
- g) navrhujeme zvýšiť kvótu doktorandov pre náš ústav na 20;
- h) zasadiť sa o to, aby APVV vytvorila podmienky pre VV pre mladých pracovníkov alebo finančne podporila výzvy LPP.

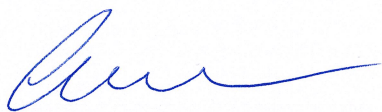
Správu o činnosti organizácie SAV spracoval(i):

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

Ing. Jozef Fabian, CSc, 02/5922 2658

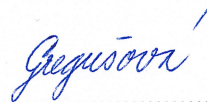
PhDr. Anna Gömöryová, 02/ 5922 2908

Riaditeľ organizácie SAV



.....
RNDr. Vladimír Cambel, DrSc.

Predseda vedeckej rady



.....
RNDr. Dagmar Gregušová, DrSc.

Prílohy

Príloha A

Zoznam zamestnancov a doktorandov organizácie k 31.12.2017

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

| | Meno s titulmi | Úväzok (v %) | Ročný prepočítaný úväzok |
|---|----------------------------------|-----------------|-----------------------------|
| Vedúci vedeckí pracovníci DrSc. | | | |
| 1. | RNDr. Vladimír Cambel, DrSc. | 100 | 1.00 |
| 2. | Ing. Karol Fröhlich, DrSc. | 70 | 0.74 |
| 3. | doc. Ing. Fedor Gömöry, DrSc. | 100 | 1.00 |
| 4. | RNDr. Dagmar Gregušová, DrSc. | 100 | 1.00 |
| 5. | Ing. Štefan Chromík, DrSc. | 60 | 0.60 |
| 6. | Ing. Pavol Kováč, DrSc. | 100 | 1.00 |
| 7. | Ing. Ján Kuzmík, DrSc. | 100 | 1.00 |
| 8. | Ing. Tibor Lalinský, DrSc. | 60 | 0.60 |
| 9. | doc. RNDr. Martin Moško, DrSc. | 10 | 0.10 |
| 10. | doc. Ing. Jozef Novák, DrSc. | 60 | 0.60 |
| 11. | Ing. Jozef Osvald, DrSc. | 100 | 1.00 |
| Vedúci vedeckí pracovníci CSc., PhD. | | | |
| 1. | Ing. František Dubecký, CSc. | 40 | 0.40 |
| Samostatní vedeckí pracovníci | | | |
| 1. | Mgr. Oleg Babchenko, PhD. | 100 | 1.00 |
| 2. | RNDr. Pavol Boháček, CSc. | 100 | 1.00 |
| 3. | doc. RNDr. Edmund Dobročka, CSc. | 100 | 1.00 |
| 4. | Ing. Ján Fedor, PhD | 100 | 1.00 |
| 5. | RNDr. Štefan Haščík, PhD. | 100 | 1.00 |
| 6. | Dr. rer. nat. Martin Hulman | 100 | 1.00 |
| 7. | Ing. Jozef Huran, CSc. | 100 | 0.17 |
| 8. | RNDr. Dušan Korytár, CSc. | 50 | 0.50 |
| 9. | RNDr. Michal Kučera, PhD | 100 | 1.00 |
| 10. | Ing. Róbert Kúdela, CSc. | 100 | 1.00 |
| 11. | Ing. Peter Lobotka, CSc. | 60 | 0.60 |
| 12. | RNDr. Antónia Mošková, CSc. | 80 | 0.80 |
| 13. | Mgr. Enric Pardo, PhD. | 100 | 1.00 |
| 14. | Ing. Jozef Pitel, CSc. | 100 | 0.00 |

| | | | |
|--|---|-----|------|
| 15. | Ing. Alica Rosová, CSc. | 100 | 1.00 |
| 16. | Mgr. Eugen Seiler, PhD | 100 | 1.00 |
| 17. | Mgr. Michaela Sojková, PhD. | 100 | 1.00 |
| 18. | Mgr. Mykola Soloviov, PhD. | 100 | 1.00 |
| 19. | Ing. Roman Stoklas, PhD. | 100 | 1.00 |
| 20. | Ing. Ján Šoltýs, PhD | 100 | 1.00 |
| 21. | Ing. Ján Šouc, CSc. | 100 | 1.00 |
| 22. | RNDr. Marianna Španková, PhD | 100 | 0.83 |
| 23. | RNDr. Vladimír Štrbík, CSc. | 100 | 1.00 |
| 24. | Ing. Milan Ťapajna, PhD. | 100 | 1.00 |
| 25. | Ing. Jaroslav Tóbik, PhD. | 100 | 0.96 |
| 26. | Ing. Gabriel Vanko, PhD. | 100 | 1.00 |
| 27. | Ing. Michal Vojenčiak, PhD. | 100 | 1.00 |
| 28. | Mgr. Bohumír Zaťko, PhD | 100 | 1.00 |
| Vedeckí pracovníci | | | |
| 1. | Mgr. Petra Barančeková Husaníková, PhD. | 100 | 0.88 |
| 2. | Ing. Michal Blaho, PhD. | 100 | 1.00 |
| 3. | Ing. Boris Brunner, PhD. | 100 | 0.67 |
| 4. | Ing. Jozef Fabian, CSc | 100 | 1.00 |
| 5. | Mgr. Juraj Feilhauer, PhD. | 20 | 0.80 |
| 6. | Ing. Filip Gucmann, PhD. | 100 | 0.00 |
| 7. | Ing. Ladislav Hrubčín, CSc. | 10 | 0.00 |
| 8. | Mgr. Ján Kováč, PhD. | 100 | 1.00 |
| 9. | Ing. Miloslav Kulich, PhD. | 100 | 1.00 |
| 10. | Mgr. Agáta Laurenčíková, PhD. | 100 | 1.00 |
| 11. | Ing. Shuo Li, PhD. | 100 | 0.08 |
| 12. | Dr. Michal Mruczkiewicz | 100 | 1.00 |
| 13. | Ing. Marián Precner, PhD. | 100 | 1.00 |
| 14. | Ing. Ivan Rýger, PhD. | 100 | 0.00 |
| 15. | Ing. Tomáš Ščepka, PhD. | 100 | 1.00 |
| 16. | Ing. Zdenko Zápražný, PhD. | 100 | 1.00 |
| Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci) | | | |
| 1. | Ing. Dušan Berek | 100 | 0.25 |
| 2. | Mgr. Jana Brndiarová | 40 | 0.40 |
| 3. | Ing. Peter Eliáš | 100 | 1.00 |

| | | | |
|--|--------------------------|-----|------|
| 4. | Ing. Lubomír Frolek | 100 | 1.00 |
| 5. | Ing. Norbert Gál | 40 | 0.37 |
| 6. | Mgr. Štefan Gaži | 40 | 0.40 |
| 7. | Ing. Stanislav Hasenöhr | 100 | 1.00 |
| 8. | Ing. Imrich Hušek | 100 | 1.00 |
| 9. | RNDr. Kristína Hušeková | 100 | 1.00 |
| 10. | Mgr. Peter Hutár | 20 | 0.20 |
| 11. | Ing. Prerna Chauhan | 40 | 0.20 |
| 12. | Ing. Milan Kapolka | 100 | 0.60 |
| 13. | Ing. Eva Kováčová | 100 | 1.00 |
| 14. | Ing. Tomáš Kujovič | 20 | 0.07 |
| 15. | Ing. Ivan Kundrata | 20 | 0.20 |
| 16. | Ing. Tibor Melíšek | 100 | 1.00 |
| 17. | Ing. Edita Mikulášová | 20 | 0.07 |
| 18. | Ing. Marek Mošat' | 20 | 0.07 |
| 19. | RNDr. Katarína Neilinger | 40 | 0.20 |
| 20. | Ing. Rastislav Ries | 20 | 0.07 |
| 21. | Mgr. Mária Sekáčová | 100 | 1.00 |
| 22. | Mgr. Peter Šichman | 20 | 0.07 |
| 23. | Ing. Marcel Talacko | 20 | 0.20 |
| Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci) | | | |
| 1. | Mgr. Miroslav Adámek | 100 | 1.00 |
| 2. | PhDr. Anna Gömöryová | 100 | 1.00 |
| 3. | Ing. Anna Kršjaková | 80 | 0.80 |
| 4. | Ing. Pavol Mozola | 100 | 1.00 |
| 5. | Mgr. Vojtech Ogrodnik | 40 | 0.40 |
| 6. | Ing. Dominika Poláková | 100 | 1.00 |
| 7. | Ing. Marta Zofcsáková | 100 | 1.00 |
| Odborní pracovníci ÚSV | | | |
| 1. | Juraj Arbet | 100 | 1.00 |
| 2. | Ján Dérer | 80 | 0.80 |
| 3. | Peter Drlička | 100 | 1.00 |
| 4. | Dagmar Erbenová | 100 | 1.00 |
| 5. | Michal Gerboc | 100 | 1.00 |
| 6. | Iveta Grófova | 100 | 1.00 |

| | | | |
|---------------------------|-----------------------|-----|------|
| 7. | Martin Grujbár | 100 | 1.00 |
| 8. | Ľubomír Kopera | 100 | 1.00 |
| 9. | Magdaléna Krajčírová | 100 | 1.00 |
| 10. | Peter Martiš | 100 | 1.00 |
| 11. | Pavol Mužík | 60 | 0.60 |
| 12. | Edita Považanová | 100 | 1.00 |
| 13. | Jana Ryzá | 100 | 1.00 |
| 14. | Alena Seifertová | 100 | 1.00 |
| 15. | Edita Sýkorová | 50 | 0.50 |
| 16. | Stanislav Štefánik | 100 | 1.00 |
| 17. | Jozef Talapa | 40 | 0.40 |
| 18. | Juraj Tančár | 100 | 1.00 |
| 19. | Margita Valentínová | 80 | 0.80 |
| 20. | Michal Vrbovský | 100 | 0.33 |
| Ostatní pracovníci | | | |
| 1. | Eva Domoráková | 50 | 0.50 |
| 2. | Kvetoslava Hamburgová | 100 | 1.00 |
| 3. | František Karovič | 50 | 0.50 |
| 4. | Ján Matlovič | 60 | 0.60 |
| 5. | Júlia Poláková | 50 | 0.50 |
| 6. | Mária Poórová | 50 | 0.50 |
| 7. | Róbert Vanek | 100 | 1.00 |
| 8. | Irena Vinceková | 100 | 1.00 |
| 9. | Jozef Volko | 100 | 1.00 |

Zoznam zamestnancov, ktorí odišli v priebehu roka

| | Meno s titulmi | Dátum odchodu | Ročný prepočítaný úväzok |
|--|---------------------------|---------------|--------------------------|
| Vedeckí pracovníci | | | |
| 1. | Ing. Jaroslav Dzuba, PhD. | 1.7.2017 | 0.28 |
| Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci) | | | |
| 1. | RNDr. Vasilij Šmatko | 1.10.2017 | 0.30 |
| Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci) | | | |
| 1. | Mgr. Jakub Hagara | 31.8.2017 | 0.13 |
| Odborní pracovníci ÚSV | | | |
| 1. | Vladimír Džanibekov | 1.7.2017 | 0.25 |

Zoznam doktorandov

| | Meno s titulmi | Škola/fakulta | Študijný odbor |
|--|--------------------------|---|--|
| Interní doktorandi hrazení z prostriedkov SAV | | | |
| 1. | Mgr. Jana Brndiarová | Fakulta matematiky, fyziky a informatiky UK | 4.1.3 fyzika kondenzovaných látok a akustika |
| 2. | Mgr. Konstantin Bublikov | Fakulta matematiky, fyziky a informatiky UK | 4.1.3 fyzika kondenzovaných látok a akustika |
| 3. | MSc. Anang Dadhich | Fakulta elektrotechniky a informatiky STU | 5.2.48 fyzikálne inžinierstvo |
| 4. | Ing. Norbert Gál | Fakulta elektrotechniky a informatiky STU | 5.2.48 fyzikálne inžinierstvo |
| 5. | Mgr. Peter Hutár | Fakulta matematiky, fyziky a informatiky UK | 4.1.3 fyzika kondenzovaných látok a akustika |
| 6. | Ing. Prerna Chauhan | Fakulta matematiky, fyziky a informatiky UK | 4.1.3 fyzika kondenzovaných látok a akustika |
| 7. | Ing. Tomáš Kujovič | Fakulta elektrotechniky a informatiky STU | 5.2.48 fyzikálne inžinierstvo |
| 8. | Ing. Ivan Kandrata | Fakulta matematiky, fyziky a informatiky UK | 4.1.3 fyzika kondenzovaných látok a akustika |
| 9. | Ing. Edita Mikulášová | Fakulta elektrotechniky a informatiky STU | 5.2.48 fyzikálne inžinierstvo |
| 10. | Ing. Marek Mošat' | Fakulta elektrotechniky a informatiky STU | 5.2.48 fyzikálne inžinierstvo |
| 11. | Ing. Rastislav Ries | Fakulta elektrotechniky a informatiky STU | 5.2.48 fyzikálne inžinierstvo |
| 12. | Mgr. Peter Šichman | Fakulta matematiky, fyziky a informatiky UK | 4.1.3 fyzika kondenzovaných látok a akustika |
| 13. | Ing. Marcel Talacko | Fakulta elektrotechniky a informatiky STU | 5.2.48 fyzikálne inžinierstvo |
| Interní doktorandi hrazení z iných zdrojov | | | |
| 1. | Ing. Milan Kapolka | Fakulta elektrotechniky a informatiky STU | 5.2.48 fyzikálne inžinierstvo |
| 2. | Mgr. Katarína Neilinger | Fakulta matematiky, fyziky a informatiky UK | 4.1.3 fyzika kondenzovaných látok a akustika |
| Externí doktorandi | | | |
| 1. | Ing. Peter Jančovič | Fakulta elektrotechniky a informatiky STU | 5.2.13 elektronika |

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

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

Zoznam emeritných vedeckých zamestnancov

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

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medziakademická dohoda (MAD)

1.) Príprava a charakterizácia pokročilých GaN nano-hetero-štruktúr (*Advanced GaN nano-hetero-structures – preparation and characterization*)

Zodpovedný riešiteľ: Jozef Novák
Trvanie projektu: 1.1.2017 / 31.12.2017
Evidenčné číslo projektu: 21-17
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Česko: 1
Čerpané financie: -

2.) Štúdium rastu a elektrických vlastností hybridných štruktúr diamantu a tranzistorov AlGaIn/GaN HEMT

Zodpovedný riešiteľ: Gabriel Vanko
Trvanie projektu: 1.1.2016 / 31.3.2017
Evidenčné číslo projektu: 21-17
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Česko: 1
Čerpané financie: -

Programy: Medzivládna dohoda

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

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

4.) Perovskitovské heteroštruktúry nanometrových hrúbok pre senzory a spintroniku

(Perovskite heterostructures of nanometric thickness for sensors and spintronics)

Zodpovedný riešiteľ: Vladimír Štrbík
Trvanie projektu: 1.1.2015 / 31.12.2017
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Bulharsko: 1
Čerpané financie: -

Programy: COST

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

Zodpovedný riešiteľ: Karol Fröhlich
Trvanie projektu: 4.12.2014 / 4.12.2018
Evidenčné číslo projektu: MP1402
Organizácia je koordinátorom projektu: nie
Koordinátor: Tyndall National Institute, Cork
Počet spoluriešiteľských inštitúcií: 22 - Belgicko: 1, Nemecko: 1, Dánsko: 1, Španielsko: 1, Estónsko: 1, Fínsko: 1, Francúzsko: 1, Veľká Británia: 1, Grécko: 1, Chorvátsko: 1, Maďarsko: 1, Švajčiarsko: 2, Írsko: 1, Taliansko: 1, Luxembursko: 1, Holandsko: 1, Nórsko: 1, Poľsko: 1, Portugalsko: 1, Švédsko: 1, Turecko: 1
Čerpané financie: -
Podpora medzinárodnej spolupráce z národných zdrojov: 3150 €

Dosiahnuté výsledky:

V rámci projektu COST MP 1402 (HERALD) sme sa venovali príprave a štúdiu štruktúr $\text{RuO}_2/\text{TiO}_2/\text{Si}$ pre tvorbu vodíka z H_2O vplyvom slnečného žiarenia, príprave a štúdiu interkalácie Li do TiO_2 a príprave tenkých vrstiev Ta_2O_5 a ZrO_2 pre odporové spínanie v spolupráci s univerzitou Helsinky. Práce boli prezentované na konferencii EuroCVD-Baltic ALD v Linköpingu, Švédsko.

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

Zodpovedný riešiteľ: Štefan Chromik
Trvanie projektu: 1.2.2016 / 30.4.2018
Evidenčné číslo projektu: MP1308
Organizácia je koordinátorom projektu: nie
Koordinátor: CNRCNR-SPIN
Počet spoluriešiteľských inštitúcií: 28 - Rakúsko: 1, Belgicko: 1, Bulharsko: 1, Česko: 1, Nemecko: 1, Dánsko: 1, Španielsko: 1, Fínsko: 1, Francúzsko: 1, Veľká Británia: 1, Grécko: 1, Chorvátsko: 1, Švajčiarsko: 1, Írsko: 1, Izrael: 1, Taliansko: 1, Litva: 1, Luxembursko: 1, Lotyšsko: 1, Holandsko: 1,

Nórsko: 1, Poľsko: 1, Portugalsko: 1, Rumunsko: 1, Srbsko: 1,
Slovinsko: 1, Švédsko: 1, Turecko: 1

Čerpané financie:

-
Podpora medzinárodnej spolupráce z národných zdrojov: 3150 €

Dosiahnuté výsledky:

V dňoch 2.-5. 4. 2017 na jarom mítingu COST TO-BE organizovanom v Luxemburgu, sme prezentovali (Š. Chromik, M. Talacko) výsledky našej skupiny vo forme vývesky s názvom: M. Talacko, Š. Chromik, V. Štrbík, M. Sojková, M. Španková, G. Jung*, G. Bareli, C.

Camerlingo: "YBaCuO microbridges properties modification using low energy electrons".

Jednalo sa o druhý míting, na ktorom sme sa mohli zúčastniť po našom prihlásení sa do programu COST. Na tomto mítingu sme diskutovali s Dr. Méchin z pracoviska CNRS, Univ. Caen

Francúzsko a možnej spolupráci ohľadom meraní šumu modelovej štruktúry nášho bolometra.

V dňoch 10.-13. 9. 2017 sme sa zúčastnili (M. Španková, M. Talacko) jesenného mítingu COST v Rige (Lotyšsko).

Prezentovali sme 2 príspevky:

M. Talacko, Š. Chromik, V. Štrbík, M. Španková, G. Jung: "Channels modification using low energy electron irradiation for potential coherent vortex motion applications in YBaCuO thin films superconductors"

Š. Chromik, M. Sojková, M. Španková, E. Dobročka, P. Hutár, Ľ. Vančo*, M. Hulman:

"Preparation and study of MoO₃ thin films for realization of MoS₂ 2D systems"

7.) Výmena poznatkov o iónových kvapalinách (*Exchange on ionic liquids*)

Zodpovedný riešiteľ:

Peter Lobotka

Trvanie projektu:

15.5.2013 / 14.5.2017

Evidenčné číslo projektu:

CM1206

Organizácia je

nie

koordinátorom projektu:

Koordinátor:

Technical University of Denmark

Počet spoluriešiteľských

inštitúcií:

25 - Rakúsko: 1, Belgicko: 1, Bulharsko: 1, Česko: 1, Nemecko: 1,
Dánsko: 1, Španielsko: 1, Estónsko: 1, Fínsko: 1, Francúzsko: 2,
Veľká Británia: 1, Grécko: 1, Maďarsko: 1, Švajčiarsko: 1, Írsko: 1,
Taliansko: 1, Litva: 1, Holandsko: 1, Nórsko: 1, Poľsko: 1,
Portugalsko: 1, Slovinsko: 1, Švédsko: 1, Turecko: 1

Čerpané financie:

-
Podpora medzinárodnej spolupráce z národných zdrojov: 1313 €

8.) Moderné rtg zobrazovacie a tomografické metódy využívajúce fázový kontrast (*Enhanced X-ray tomographic reconstruction: experiment, modeling, and algorithms*)

Zodpovedný riešiteľ:

Zdenko Zápražný

Trvanie projektu:

16.5.2013 / 15.5.2017

Evidenčné číslo projektu:

MP1207

Organizácia je

nie

koordinátorom projektu:

Koordinátor:

CWI, Science Park 123, NL-1090GB Amsterdam

Počet spoluriešiteľských

inštitúcií:

19 - Rakúsko: 1, Belgicko: 1, Cyprus: 1, Nemecko: 1, Dánsko: 1,
Španielsko: 1, Fínsko: 1, Francúzsko: 1, Veľká Británia: 1, Grécko: 1,
Maďarsko: 1, Švajčiarsko: 1, Taliansko: 1, Holandsko: 1, Nórsko: 1,
Poľsko: 1, Srbsko: 1, Švédsko: 1, Turecko: 1

Čerpané financie: -
Podpora medzinárodnej spolupráce z národných zdrojov: 1313 €

Programy: 7RP

9.) Vývoj supravodivých pásov v Európe: Nové materiály a architektúry pre zníženie nákladov silnoprúdových aplikácií a magnetov (*European development of superconducting tapes: Integrating novel materials and architectures into cost effective processes for power applications and magnets*)

Zodpovedný riešiteľ: Fedor Gömöry
Trvanie projektu: 1.9.2012 / 28.2.2017
Evidenčné číslo projektu: NMP3-LA-2012-280432
Organizácia je koordinátorom projektu: nie
Koordinátor: CSIC ICMAB, Barcelona
Počet spoluriešiteľských inštitúcií: 8 - Rakúsko: 1, Belgicko: 1, Nemecko: 1, Španielsko: 1, Francúzsko: 1, Veľká Británia: 1, Taliansko: 1, Rumunsko: 1
Čerpané financie: EÚ: 5551 €
APVV: 12645 €
Podpora medzinárodnej spolupráce z národných zdrojov: 630 €

Dosiahnuté výsledky:

Úspešne sme zakončili analýzy vlastností supravodivých pásov zmeraných pomocou transportných a magnetizačných meraní.

Programy: International Visegrad Found (IVF)

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

Zodpovedný riešiteľ: Ján Kuzmík
Trvanie projektu: 1.10.2015 / 31.10.2018
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 3 - Maďarsko: 1, Japonsko: 1, Poľsko: 1
Čerpané financie: IVF: 7582 €
Podpora medzinárodnej spolupráce z národných zdrojov: 25000 €

Dosiahnuté výsledky:

Ťapajna, M., Válik, L., Gucmann, F., Gregušová, D., Fröhlich, K., Haščík, Š., Dobročka, E., Tóth, L., Pécz, B., and Kuzmík, J.: Low-temperature atomic layer deposition-grown Al₂O₃ gate dielectric for GaN/AlGaIn/GaN MOS HEMTs: Impact of deposition conditions on interface state density, J. Vacuum Sci Technol. B 35 (2017) 01A107.

Gregušová, D., Blaho, M., Haščík, Š., Šichman, P., Laurenčíková, A., Seifertová, A., Dérier, J., Brunner, F., Würfl, H., Kuzmík, J., : Polarization-engineered n+GaN/InGaIn/AlGaIn/GaN normally-off MOS HEMTs. Physica Status Solidi a 214 (2017) 1700407

M. Matys, R. Stoklas, M. Blaho, and B. Adamowicz: Origin of positive charge at insulator/AlGa_N interface and its control by AlGa_N composition, *Applied Phys. Lett.* 110 (2017) 243505.

Kuzmík, J.: GaN-based normally-off HEMTs for switching and logic applications. In 3rd Intensive Discussion on Growth of Nitride Semiconductors (IDGN-3). Tohoku Univ. 2017. Invited.

Ťapajna, M., Gregušová, D., Fröhlich, K., and Kuzmík, J.: Current Understanding and Challenges of Metal-Oxide-Semiconductor Gated GaN HFETs. In: 6th Inter.Symp. Organic Inorganic Electronic Mater. Related Nanotechnol. - EM-NANO 2017. Fukui 2017. Invited.

Dobročka, E., Hasenöhrl, S., Chauhan, P., and Kuzmík, J.: Non-conventional scans in highresolution X-ray diffraction analysis of epitaxial systems. In: 5th Inter. Conf. "Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News " (SURFINT-SREN V). Florence 2017. Invited.

Gregušová, D., Blaho, M., Šichman, P., Haščík, Š., Hasenöhrl, S., Stoklas, R., Laurenčíková, A., Fröhlich, K., Tóth, L., Pécz, B., Brunner, F., Wurfl, J., Hashizume, T., and Kuzmík, J.: Threshold voltage controllability and stability in InGa_N/AlGa_N/Ga_N MOS HEMTs. In: 12th Topical Workshop on Heterostr. Microelectron. Kirishima 2017.

M. Matys, S. Kaneki, B. Adamowicz, J. Kuzmik and T. Hashizume: Analysis of temperature dependent frequency dispersion in CV curves of Al₂O₃/AlGa_N/Ga_N structures on the disorder-induced gap-state model, In: 12th Topical Workshop on Heterostr. Microelectron. Kirishima 2017.

L. Toth, I. Cora, M. Tapajna, K. Frohlich, J. Kuzmik and B. Pecz: TEM study of dielectric films deposited on the surface of Ga_N/AlGa_N/Ga_N MOS heterostructure, In: 12th Topical Workshop on Heterostr. Microelectron. Kirishima 2017.

Hasenöhrl, S., Gregušová, D., Dobročka, E., Stoklas, R., Chauhan, P., and Kuzmík, J.: MOCVD growth of Ga_N/AlGa_N 2 DEG structures with InGa_N cap for examination of polarization charge engineering concept in normally – off Ga_N MOS-HEMTs. In: 17th European Workshop on Metal-Organic Vapour Phase Epitaxy (EW-MOVPE 17). Grenoble 2017.

Programy: Bilaterálne - iné

11.) Hard X-ray focussing and X-ray detectors for applications in medicine and plasma diagnostics (*Hard X-ray focussing and X-ray detectors for applications in medicine and plasma diagnostics*)

| | |
|---|----------------------------|
| Zodpovedný riešiteľ: | František Dubecký |
| Trvanie projektu: | 1.1.2016 / 31.12.2017 |
| Evidenčné číslo projektu: | |
| Organizácia je koordinátorom projektu: | áno |
| Koordinátor: | Elektrotechnický ústav SAV |
| Počet spoluriešiteľských inštitúcií: | 1 - Taliansko: 1 |
| Čerpané financie: | - |

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

Zodpovedný riešiteľ: Karol Fröhlich
Trvanie projektu: 1.2.2017 / 31.1.2020
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Turecko: 1
Čerpané financie: SAV: 20833 €

Dosiahnuté výsledky:

V prvom roku riešenia projektu TransCoe sme sa podľa harmonogramu riešenia projektu zaoberali prípravou, charakterizáciou a optimalizáciou tenkých vrstiev ZnO dopovaných Al_2O_3 . Vzorky ZnO s hrúbkou 26 nm (200 ALD cyklov) boli pripravené pri teplote 150 °C. Zistili sme, že optimálne dopovanie je 8 ALD cyklov Al_2O_3 pre 200 ALD cyklov ZnO. Pri týchto vzorkách bol zmeraný merný odpor 3 m Ω cm. V nasledujúcom roku sa budeme venovať vplyvu hrúbky, post-depozičného žihania a pridaniu tenkej vrstvy Au na vlastnosti transparentných vodivých vrstiev ZnO.

Programy: Horizont 2020

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

Zodpovedný riešiteľ: Fedor Gömöry
Trvanie projektu: 1.1.2017 / 30.6.2020
Evidenčné číslo projektu: H2020-721019
Organizácia je koordinátorom projektu: nie
Koordinátor: CNRS
Počet spoluriešiteľských inštitúcií: 7 - Kanada: 1, Španielsko: 1, Francúzsko: 1, Švajčiarsko: 1, Izrael: 1, Taliansko: 1, Slovensko: 1
Čerpané financie: EÚ: 73910 €
Podpora medzinárodnej spolupráce z národných zdrojov: 3150 €

Dosiahnuté výsledky:

Boli otestované prvé vzorky pásovk s pridanou vrstvou z materiálu s vysokou tepelnou kapacitou. K tomu bolo potrebné zostaviť nový typ zdroja elektrického prúdu, schopného počas 50 milisekúnd napájať vzorku prúdom nad 1000 A pri napätí 10 V. V spolupráci s partnermi z Ecole Polytechnique Montreal sme tiež vyvinuli postup výpočtového modelovania prechodu upravenej pásky do normálneho stavu.

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

Zodpovedný riešiteľ: Enric Pardo
Trvanie projektu: 1.5.2017 / 30.4.2020
Evidenčné číslo projektu: Horizon2020-723119
Organizácia je nie

koordinátorom projektu:

Koordinátor: OSWALD ELEKTROMOTOREN GMBH
Počet spoluriešiteľských inštitúcií: 7 - Nemecko: 1, Francúzsko: 1, Veľká Británia: 3, Holandsko: 1, Rusko: 1
Čerpané financie: EÚ: 15353 €
Podpora medzinárodnej spolupráce z národných zdrojov: 2940 €

Dosiahnuté výsledky:

V priebehu tohto roka (máj až december 2017) bola determinovaná hlavná geometria supravodivého motora. Na EIÚ SAV sme naprogramovali numerickú metódu na výpočet energetických strát v supravodivom statore motora a výsledky boli prezentované na medzinárodnej konferencii EUCAS 2017. Výveska je dostupná na:
<https://indico.cern.ch/event/659554/contributions/2714658/>.

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

Zodpovedný riešiteľ: Eugen Seiler
Trvanie projektu: 1.5.2017 / 30.4.2021
Evidenčné číslo projektu: H2020-730871
Organizácia je koordinátorom projektu: nie
Koordinátor: CERN
Počet spoluriešiteľských inštitúcií: 21 - Rakúsko: 1, Belgicko: 1, Nemecko: 1, Španielsko: 2, Francúzsko: 2, Veľká Británia: 2, Maďarsko: 1, Švajčiarsko: 1, Taliansko: 2, Lotyšsko: 1, Malta: 1, Holandsko: 1, Poľsko: 1, Portugalsko: 1, Rumunsko: 1, Slovinsko: 1, Švédsko: 1
Čerpané financie: EÚ: 4567 €
Podpora medzinárodnej spolupráce z národných zdrojov: 2940 €

Dosiahnuté výsledky:

V roku 2017 boli na stretnutiach partnerov participujúcich vo WP15 dohodnuté jednotlivé technologické kroky a postupy pri príprave vzoriek supravodivých vrstiev pre rádiové frekvencie dutiny. Na EIÚ SAV prebehla predbežná charakterizácia supravodivých parametrov prvých testovacích vzoriek Nb vrstiev. Za týmto účelom boli adaptované niektoré z meracích aparátov a boli otestované možnosti rezania a upevnenia vzoriek.

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

Zodpovedný riešiteľ: Michal Vojenčíak
Trvanie projektu: 1.1.2014 / 31.12.2018
Evidenčné číslo projektu: 633053
Organizácia je koordinátorom projektu: nie
Koordinátor: Max-Planck Gesellschaft zur Forderung der Wissenschaften E.V.
Počet spoluriešiteľských inštitúcií: 33 - Rakúsko: 1, Belgicko: 1, Bulharsko: 1, 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,

Čerpané financie: Holandsko: 1, Poľsko: 1, Portugalsko: 1, Rumunsko: 1, Slovensko: 1, Slovinsko: 1, Švédsko: 1
EÚ: 1825 €
Podpora medzinárodnej spolupráce z národných zdrojov: 3150 €

Dosiahnuté výsledky:

V roku 2017 sme charakterizovali dva pre-komerčné supravodivé vodiče od európskych výrobcov. Táto charakterizácia zahŕňa meranie kritického prúdu pomocou merania magnetického momentu ako aj pomocou transportného prúdu. Testovali sme možnosti chladenia supravodivého kábla typu CORC pomocou prietoku plynného hélia.

Projekty národných agentúr

Programy: VEGA

1.) Príprava tenkých vrstiev technológiou nanášania po atómových vrstvách (*Growth of thin films using Atomic Layer Deposition*)

Zodpovedný riešiteľ: Karol Fröhlich
Trvanie projektu: 1.1.2014 / 31.12.2017
Evidenčné číslo projektu: 2/0138/14
Organizácia je áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 13337 €

Dosiahnuté výsledky:

Kukli, K., Kemeli, M., Vehkamäki, M., Heikkilä, M., Mizohata, K., Kalam, K., Ritala, M., Leskelä, M., Kundrata, I., Fröhlich, K.: Atomic layer deposition and properties of mixed Ta₂O₅ ZrO₂ films, AIP Adv. 7 (2017) 025001.

Stoklas, R., Gregušová, D., Blaho, M., Fröhlich, K., Novák, J., Matys, M., Yatabe, Z., Kordoš, P., Hashizume, T.: Influence of oxygen-plasma treatment on AlGa_N/Ga_N metal-oxide-semiconductor heterostructure field-effect transistors with HfO₂ by atomic layer deposition: leakage current and density of states reduction, Semicond. Sci Technol. 32 (2017) 045018.

Ťapajna, M., Stoklas, R., Gregušová, D., Gucmann, F., Hušeková, K., Haščík, Š., Fröhlich, K., Tóth, L., Pecz, B., Brunner, F., Kuzmík, J.: Investigation of 'surface donors' in Al₂O₃/AlGa_N/Ga_N metal-oxide-semiconductor heterostructures: Correlation of electrical, structural, and chemical properties, Applied Surface Sci 426 (2017) 656-661.

Ťapajna, M., Válik, L., Gucmann, F., Gregušová, D., Fröhlich, K., Haščík, Š., Dobročka, E., Tóth, L., Pecz, B., Kuzmík, J.: Low-temperature atomic layer deposition-grown Al₂O₃ gate dielectric for Ga_N/AlGa_N/Ga_N MOS HEMTs: Impact of deposition conditions on interface state density, J. Vacuum Sci Technol. B 35 (2017) 01A107.

Dobročka, E., Novák, P., Búc, D., Harmatha, L., Murín, J.: X-ray diffraction analysis of residual stresses in textured ZnO thin films, Applied Surface Sci 395 (2017) 16-23.

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

Zodpovedný riešiteľ: Fedor Gömöry
Trvanie projektu: 1.1.2017 / 31.12.2020
Evidenčné číslo projektu: 1/0151/17
Organizácia je koordinátorom projektu: nie
Koordinátor: Materiálovotechnologická fakulta STU v Trnave
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 3131 €

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

Zodpovedný riešiteľ: Dagmar Gregušová
Trvanie projektu: 1.1.2017 / 31.12.2020
Evidenčné číslo projektu: 2/0109/17
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 12757 €

Dosiahnuté výsledky:

Brytavskiy, I., Gregušová, D., Ťapajna, M., Stoklas, R., Blaho, M., Seifertová, A., Hasenöhrl, S., Dobročka, E., Kuzmík, J., : Hafnium oxide as a promising material for gate isolation in GaN-based MOS HFETs In: Proc. ADEPT. 5th Inter. Conf. on Advan. in Electronic and Photonic Technol. Eds. I. Lettrichová et al. Žilina: Univ. Žilina 2017. ISBN 978-80-554-1342-6. P. 207-210.

4.) Rast 2D materiálov: grafén a diselenid titánu (*Growth of 2D materials: graphene and titanium diselenide*)

Zodpovedný riešiteľ: Martin Hulman
Trvanie projektu: 1.1.2015 / 31.12.2017
Evidenčné číslo projektu: 2/0178/15
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 8687 €

Dosiahnuté výsledky:

Varga, M., Ižák, T., Vretenár, V., Kozak, H., Holovsky, J., Artemenko, A., Hulman, M., Skákalová, V., Lee, D., Kromka, A.: Diamond/carbon nanotube composites: Raman, FTIR, and XPS

spectroscopic studies, Carbon 111 (2017) 54-61.

Chromik, Š., Sojková, M., Vretenár, V., Rosová, A., Dobročka, E., and Hulman, M.: Influence of GaN/AlGaIn/GaN (0001) and Si (100) substrates on structural properties of extremely thin MoS₂ films grown by pulsed laser deposition, Applied Surface Sci 395 (2017) 232-236.

Sojková, M., Chromik, Š., Rosová, A., Dobročka, E., Hutár, P., Machajdík, D., Kobzev, A., and Hulman, M.: MoS₂ thin films prepared by sulfurization Proc. SPIE 10354 (2017) 103541K-1.

Janke, D., Hulman, M., Wenisch, R., Gemming, S., Rafaja, D., and Krause, M. : Influence of nickel catalyst morphology on layer-exchange-based carbon crystallisation of Ni/a-C bilayers, Phys. Status Solidi B (2017) 1700234.

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

Zodpovedný riešiteľ: Jozef Huran
Trvanie projektu: 1.1.2016 / 31.12.2019
Evidenčné číslo projektu: 1/0651/16
Organizácia je koordinátorom projektu: nie
Koordinátor: FEI STU
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 2433 €

Dosiahnuté výsledky:

Šály, V., Perný, M., Janíček, F., Huran, J., Mikolášek, M., Packa, J., : Impedance spectroscopy of heterojunction solar cell a-SiC/c-Si with ITO antireflection film investigated at different temperatures. J. Phys.: Conf. Ser. 829 (2017) 012019.

Perný, M., Šály, V., Packa, J., Mikolášek, M., Váry, M., Huran, J., Hrubčín, L., Skuratov, V., Arbet, J., : Influnce of exposure with Xe radiation on heterojunction solar cell a-SiC/c-Si studied by impedance spectroscopy. J. Phys.: Conf. Ser. 829 (2017) 012016.

Huran, J., Boháček, P., Hrubčín, L., Sasinková, V., Kleinová, A., Mikolášek, M., Kobzev, A., Kováčová, E., Arbet, J., : PECVD silicon carbide thin films for harsh environment applications In: Proc. ADEPT. 5th Inter. Conf. on Advan. in Electronic and Photonic Technol. Eds. I. Lettrichová et al. Žilina: Univ. Žilina 2017. ISBN 978-80-554-1342-6. P. 215-218..

6.) Príprava a štúdium vlastností supravodivých a feromagnetických vrstiev a štruktúr pre kryoelektroniku a senzoriku (*Perspective thin films and structures for electronic applications*)

Zodpovedný riešiteľ: Štefan Chromik
Trvanie projektu: 1.1.2014 / 31.12.2017
Evidenčné číslo projektu: 2/0120/14
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských 0

inštitúcií:

Čerpané financie: VEGA SAV: 9742 €

Dosiahnuté výsledky:

Španková, M., Štrbik, V., Chromik, Š., Zheng, D., Li, J., Machajdík, D., Kobzev, A., Plecenik, T., Sojková, M., : Characterization of epitaxial LSMO films grown on STO substrates. Acta Phys. Polonica A 131 (2017) 848-850.

Chromik, Š., Sojková, M., Vretenár, V., Rosová, A., Dobročka, E., Hulman, M., : Influence of GaN/AlGaN/GaN (0001) and Si (100) substrates on structural properties of extremely thin MoS₂ films grown by pulsed laser deposition. Applied Surface Sci 395 (2017) 232-236.

Chromik, Š., Camerlingo, C., Sojková, M., Štrbik, V., Talacko, M., Malka, I., Bar, I., Bareli, G., Jung, G., : Low energy electron beam processing of YBCO thin films. Applied Surface Sci 395 (2017) 42-49.

Sojková, M., Nurgaliev, T., Štrbik, V., Chromik, Š., Blagoev, B., Španková, M., : LSMO/YBCO heterostructures and investigation of „negative“ resistance effect in the interface. Acta Phys. Polonica A 131 (2017) 842-844.

Štrbik, V., Pisarčík, M., Gaži, Š., Španková, M., : DC NanoSQUID from Nb thin films. Acta Phys. Polonica A 131 (2017) 1054-1056.

7.) Vysoko kvalitné aktívne povrchy pre novú generáciu prvkov kryštálovej röntgenovej optiky (*High quality active surfaces for new generation of X-ray crystal optics elements*)

Zodpovedný riešiteľ: Matej Jergel
Zodpovedný riešiteľ v organizácii SAV: Zdenko Zápražný
Trvanie projektu: 1.1.2015 / 31.12.2017
Evidenčné číslo projektu: 2/0004/15
Organizácia je koordinátorom projektu: nie
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 6981 €

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

Zodpovedný riešiteľ: Miloslav Kulich
Trvanie projektu: 1.1.2016 / 31.12.2018
Evidenčné číslo projektu: 2/0129/16
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 13254 €

Dosiahnuté výsledky:

Rosová, A., Kulich, M., Kováč, P., Brunner, B., Scheiter, J., and Haessler, W.: The effect of boron powder on the microstructure of MgB₂ filaments prepared by the modified internal magnesium diffusion technique, *Supercond. Sci Technol.* 30 (2017) 055001

Brunner, B., Rosová, A., Kováč, P., Reissner, M., and Dobročka, E.: Effect of Dy₂O₃ doping on phase formation and properties of MgB₂ wires made by the modified internal magnesium diffusion process, *Supercond. Sci Technol.* 30 (2017) 025004

Kopera, L., Kováč, P., Kulich, M., Melišek, T., Rindfleisch, M., Yue, J., and Hušek, I.: Critical currents of Rutheford MgB₂ cables compacted by two-axial rolling, *Supercond. Sci Technol.* 30 (2017) 015002.

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

Zodpovedný riešiteľ: Jozef Novák
Trvanie projektu: 1.1.2017 / 31.12.2020
Evidenčné číslo projektu: 2/0104/17
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 11829 €

Dosiahnuté výsledky:

Brytavskiy, I., Gregušová, D., Ťapajna, M., Stoklas, R., Blaho, M., Seifertová, A., Hasenöhrl, S., Dobročka, E., Kuzmík, J., : Hafnium oxide as a promising material for gate isolation in GaN-based MOS HFETs In: *Proc. ADEPT. 5st Inter. Conf. on Advan. in Electronic and Photonic Technol.* Eds. I. Lettrichová et al. Žilina: Univ. Žilina 2017. ISBN 978-80-554-1342-6. P. 207-210.

Laurenčíková, A., Dérer, J., Hasenöhrl, S., Eliáš, P., Novák, J., : Preparation of methanol concentration sensor with nanostructured surface In: *Proc. ADEPT. 5st Inter. Conf. on Advan. in Electronic and Photonic Technol.* Eds. I. Lettrichová et al. Žilina: Univ. Žilina 2017. ISBN 978-80-554-1342-6. P. 243-246..

Novák, J., Hasenöhrl, S., Eliáš, P., Laurenčíková, A., Kováč, J., Szobolovszký, R., Nevřela, J., : Preparation of nanocones for SERS applications In: *Proc. ADEPT. 5st Inter. Conf. on Advan. in Electronic and Photonic Technol.* Eds. I. Lettrichová et al. Žilina: Univ. Žilina 2017. ISBN 978-80-554-1342-6. P. 1-4.

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

Zodpovedný riešiteľ: Jozef Osvald
Trvanie projektu: 1.1.2017 / 31.12.2020
Evidenčné číslo projektu: 2/0112/17
Organizácia je áno

koordinátorom projektu:

Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 3645 €

11.) 2D materiály a iónové kvapaliny pre využitie v mikroelektronike a senzorike (2D materials and ionic liquids in microelectronics and sensors)

Zodpovedný riešiteľ: Michaela Sojková
Trvanie projektu: 1.1.2017 / 31.12.2020
Evidenčné číslo projektu: 2/0149/17
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 8350 €

Dosiahnuté výsledky:

Sojková, M., Chromík, Š., Rosová, A., Dobročka, E., Hutár, P., Machajdík, D., Kobzev, A., and Hulman, M.: MoS₂ thin films prepared by sulfurization Proc. SPIE 10354 (2017) 103541K-1.

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

Zodpovedný riešiteľ: Ján Šoltýs
Trvanie projektu: 1.1.2015 / 31.12.2018
Evidenčné číslo projektu: 2/0183/15
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 13917 €

Dosiahnuté výsledky:

Neilinger, K., Šoltýs, J., Mruczkiewicz, M., Dérer, J., Cambel, V.: Dual-cantilever magnetometer for study of magnetic interactions between patterned permalloy microstructures, J. Magnetism Magnetic Mater. 444 (2017) 354-360.

Neilinger, K., Šoltýs, J., Cambel, V. : Study of magnetic micro-ellipses by cantilever sensor, Acta Phys. Polonica A 131 (2017) 833-836.

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

Zodpovedný riešiteľ: Gabriel Vanko
Trvanie projektu: 1.1.2017 / 31.12.2019
Evidenčné číslo projektu: 2/0150/17

Organizácia je áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: VEGA SAV: 9278 €

Dosiahnuté výsledky:

Zehetner, J., Kasemann, S., Vanko, G., Dzuba, J., Lalinský, T., and Nürnberger, S.: Micro structuring of diaphragms for III-N MEMS using short pulsed laser ablation. In: Proc. ADEPT. 5th Inter. Conf. on Advan. in Electronic and Photonic Technol. Eds. I. Lettrichová et al. Žilina: Univ. Žilina 2017. ISBN 978-80-554-1342-6. P. 287-290.

Babchenko, O., Vanko, G., Lalinský, T., Huran, J., Haščík, Š., Artemenko, A., Ižák, T., Kromka, A., Vincze, A., Marton, M., and Vojs, M.: Influence of passivation coating on AlGaIn/GaN heterostructure during the diamond CVD. In: 5th Inter. Conf. "Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News " (SURFINT-SREN V). Florence 2017. Výveska.0068,saspro,0455,0150,

Vanko, G., Lalinský, T., Držik, M., Chromik, Š., Dzuba, J., Haščík, Š., Babchenko, O., and Lobotka, P.: Residual stress in PLD grown buffer layers for bolometric application. In: 5th Inter. Conf. "Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News " (SURFINT-SREN V). Florence 2017. Výveska.

14.) Supravodivé cievky z káblovaných REBCO vodičov (*Superconducting coils made of cabled REBCO conductors*)

Zodpovedný riešiteľ: Michal Vojenčiak
Trvanie projektu: 1.1.2015 / 31.12.2017
Evidenčné číslo projektu: 2/0126/15
Organizácia je áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: VEGA SAV: 15077 €

Dosiahnuté výsledky:

Gömöry, F., Šouc, J., Vojenčiak, M., Terzioglu, R., and Frolek, L.: Design and testing of coils wound using the Conductor-On-Round-Tube (CORT) cable, IEEE Trans. Applied Supercond. 27 (2017) 4600305

Terzioglu, R., Vojenčiak, M., Sheng, J., Gömöry, F., Çavuş, T.F., and Belenli, I.: AC loss characteristics of CORC® cable with a Cu former, Supercond. Sci Technol. 30 (2017) 085012.

Gömöry, F. and Sheng, J.: Two ways of evaluating the loss per AC cycle in a superconducting object, Supercond. Sci Technol. 30 (2017) 064005

Pardo, E. and Kapolka, M.: 3D computation of non-linear eddy currents: Variational method and superconducting cubic bulk, J. Comput. Phys. 344 (2017) 339–363

Pardo, E. and Kapolka, M.: 3D magnetization currents, magnetization loop, and saturation field in superconducting rectangular prisms, *Supercond. Sci Technol.* 30 (2017) 064007

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

Zodpovedný riešiteľ: Bohumír Zaťko
Trvanie projektu: 1.1.2016 / 31.12.2019
Evidenčné číslo projektu: 2/0152/16
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 5488 €

Dosiahnuté výsledky:

Dubecký, F., Vanko, G., Zaťko, B., Kováč, J., Gombia, E., Ferrari, C., Šagátová, A., Nečas, V., : 4H-SiC radiation hard photodetector for UV photons and soft X-rays In: *Proc. 23th Inter. Conf. on Applied Phys. of Cond. Matter (APCOM 2017)*. Eds. J. Vajda and I. Jamnický. Bratislava: FEI STU 2017. ISBN 978-80-227-4699-1. P. 23-27.

Dubecký, F., Kindl, D., Hubík, P., Mičušík, M., Dubecký, M., Boháček, P., Vanko, G., Gombia, E., Nečas, V., Mudroň, J., : A comparative study of Mg and Pt contacts on semi-insulating GaAs: electrical and XPS characterization. *Applied Surface Sci* 395 (2017) 131-135.

Šagátová, A., Zaťko, B., Nečas, V., Sedlačková, K., Fülöp, M., : Evaluation of SI GaAs detectors after radiation degradation via alpha spectrometry In: *Proc. 23th Inter. Conf. on Applied Phys. of Cond. Matter (APCOM 2017)*. Eds. J. Vajda and I. Jamnický. Bratislava: FEI STU 2017. ISBN 978-80-227-4699-1. P. 119-122.

Zaťko, B., Hrubčín, L., Sedlačková, K., Boháček, P., Šagátová, A., Sekáčová, M., Arbet, J., Skuratov, V., Nečas, V., : High energy ion detection using 4H-SiC semiconductor detector In: *Proc. 23th Inter. Conf. on Applied Phys. of Cond. Matter (APCOM 2017)*. Eds. J. Vajda and I. Jamnický. Bratislava: FEI STU 2017. ISBN 978-80-227-4699-1. P. 154-157.

Šagátová, A., Zaťko, B., Dubecký, F., Ly Anh, T., Nečas, V., Sedlačková, K., Pavlovič, M., Fülöp, M., : Radiation hardness of GaAs sensors against gamma-rays, neutrons and electrons. *Applied Surface Sci* 395 (2017) 66-71.

Sedlačková, K., Zaťko, B., Šagátová, A., Nečas, V., : The effect of the LiF film topology on detection properties of thermal neutron semiconductor detectors In: *Proc. 23th Inter. Conf. on Applied Phys. of Cond. Matter (APCOM 2017)*. Eds. J. Vajda and I. Jamnický. Bratislava: FEI STU 2017. ISBN 978-80-227-4699-1. P. 125-129.

Programy: APVV

16.) Magnetické nanoelementy pre energeticky nezávislé pamäte a mikrovlnné aplikácie (*Magnetic nanoelements for nonvolatile memory and microwave applications*)

Zodpovedný riešiteľ: Vladimír Cambel
Trvanie projektu: 1.10.2013 / 31.3.2017
Evidenčné číslo projektu: 0088-12
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 5000 €

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

Zodpovedný riešiteľ: Vladimír Cambel
Trvanie projektu: 1.7.2017 / 31.12.2020
Evidenčné číslo projektu: 16-0068
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: APVV: 16672 €

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

Zodpovedný riešiteľ: Karol Fröhlich
Trvanie projektu: 1.7.2015 / 30.6.2018
Evidenčné číslo projektu: 14-0560
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 38046 €

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

Zodpovedný riešiteľ: Fedor Gömöry
Trvanie projektu: 1.7.2017 / 28.2.2021
Evidenčné číslo projektu: 16-0418
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 20855 €

20.) Tvarovanie magnetického poľa pomocou kombinácie supravodivých a feromagnetických materiálov (*Magnetic field shaping by a combination of superconducting and ferromagnetic materials*)

Zodpovedný riešiteľ: Fedor Gömöry
Trvanie projektu: 1.10.2013 / 30.4.2017
Evidenčné číslo projektu: 0623-12
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

Solovyov, M., Šouc, J., Gömöry, F., Rikel, M.O., Mikulášová, E., Ušáková, M., and Ušák, E.: Bulk and CC-tape based superconducting shields for magnetic cloaks, IEEE Trans. Applied Supercond. 27 (2017) 8800204.

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

Zodpovedný riešiteľ: Martin Hulman
Trvanie projektu: 1.7.2016 / 31.12.2019
Evidenčné číslo projektu: 15-0693
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 33740 €

Dosiahnuté výsledky:

Sojková, M., Chromik, Š., Rosová, A., Dobročka, E., Hutár, P., Machajdík, D., Kobzev, A., and Hulman, M.: MoS₂ thin films prepared by sulfurization Proc. SPIE 10354 (2017) 103541K-1.

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

Zodpovedný riešiteľ: Štefan Chromik
Trvanie projektu: 1.7.2017 / 31.12.2020
Evidenčné číslo projektu: 16-0315
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 17198 €

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

Zodpovedný riešiteľ: Pavol Kováč
Trvanie projektu: 1.7.2015 / 31.12.2018
Evidenčné číslo projektu: 14-0522
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 55710 €

Dosiahnuté výsledky:

Hušek, I., Kováč, P., Melišek, T., Kulich, M., Rosová, A., Kopera, L., and Szundiová, B.: Superconducting MgB₂ wires with vanadium diffusion barrier, *Supercond. Sci Technol.* 30 (2017) 105008.

Kováč, P., Kulich, M., Kopera, L., Melišek, T., Kováč, J., and Hušek, I.: Filamentary MgB₂ wires manufactured by different processes subjected to tensile loading and unloading, *Supercond. Sci Technol.* 30 (2017) 065006.

Kopera, L., Kováč, P., Kulich, M., Melišek, T., Rindfleisch, M., Yue, J., and Hušek, I.: Critical currents of Rutherford MgB₂ cables compacted by two-axial rolling, *Supercond. Sci Technol.* 30 (2017) 015002.

Kováč, P., Balog, M., Hušek, I., Kopera, L., Krížik, P., Rosová, A., Kováč, J., Kulich, M., and Čaplovičová, M.: Properties of near- and sub-micrometre Al matrix composites strengthened with nano-scale in-situ Al₂O₃ aimed for low temperature applications, *Cryogenics* 87 (2017) 58–65.

Kováč, P., Hušek, I., Melišek, T., Kulich, M., Rosová, A., Kováč, J., Kopera, L., Balog, M., Krížik, P., and Orovčík, Ľ.: Lightweight Al-stabilized MgB₂ conductor made by the IMD process, *Supercond. Sci Technol.* 30 (2017) 115001.

Brunner, B., Kováč, P., Rosová, A., Reissner, M., and Dobročka, E.: Properties of MgB₂ wires doped with BaZrO₃ nanopowder made by a modified internal magnesium diffusion process, *Supercond. Sci Technol.* 30 (2017) 115003

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

Zodpovedný riešiteľ: Róbert Kúdela
Trvanie projektu: 1.7.2016 / 31.12.2019
Evidenčné číslo projektu: 15-0243
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 47579 €

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

Zodpovedný riešiteľ: Ján Kuzmík
Trvanie projektu: 1.7.2016 / 30.6.2019
Evidenčné číslo projektu: 15-0673
Organizácia je koordinátorom projektu: nie
Koordinátor: Fakulta elektrotechniky a informatiky Slovenská technická univerzita v Bratislave
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 24786 €

Dosiahnuté výsledky:

Blaho, M., Gregušová, D., Haščík, Š., Ťapajna, M., Fröhlich, K., Šatka, A., and Kuzmík, J.: Annealing, temperature, and bias-induced threshold voltage instabilities in integrated E/D-mode InAlN/GaN MOS HEMTs, *Applied Phys. Lett.* 111 (2017) 033506.

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

Zodpovedný riešiteľ: Ján Kuzmík
Trvanie projektu: 1.7.2016 / 30.6.2019
Evidenčné číslo projektu: 15-0031
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 73332 €

Dosiahnuté výsledky:

Kuzmík, J., Fleury, C., Adikimenakis, A., Gregušová, D., Ťapajna, M., Dobročka, E., Haščík, Š., Kučera, M., Kúdela, R., Androulidaki, M., Pogany, D., and Georgakilas, A.: Current conduction mechanism and electrical break-down in InN grown on GaN, *Applied Phys. Lett.* 110 (2017) 232103.

Ťapajna, M., Stoklas, R., Gregušová, D., Guemann, F., Hušeková, K., Haščík, Š., Fröhlich, K., Toth, L., Pecz, B., Micusik, M., Brunner, F., and Kuzmík, J.: Investigation of 'surface donors' in Al₂O₃/AlGaIn/GaN metal-oxide-semiconductor heterostructures: Correlation of electrical, structural, and chemical properties, *Applied Surface Sci* 426 (2017)

Gregušová, D., Blaho, M., Haščík, Š., Šichman, P., Laurenčíková, A., Seifertová, A., Dérier, J., Brunner, F., Wurfl, J., and Kuzmík, J.: Polarization-engineered n+GaIn/InGaIn/AlGaIn/GaN normally-off MOS HEMTs, *Physica Status Solidi a* 214 (2017) 1700407.

27.) Širokopásmový MEMS detektor terahertzového žiarenia (*Broadband MEMS detector of terahertz radiation*)

Zodpovedný riešiteľ: Tibor Lalinský

Trvanie projektu: 1.7.2015 / 30.6.2018
Evidenčné číslo projektu: 14-0613
Organizácia je áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 46700 €

Dosiahnuté výsledky:

Lalinský, T., Dzuba, J., Vanko, G., Kutiš, V., Paulech, J., Gálik, G., Držík, M., Chromik, Š., and Lobotka, P.: Thermo-mechanical analysis of uncooled La_{0.67}Sr_{0.33}MnO₃ microbolometer made on circular SOI membrane, *Sensors Actuators A* 265 (2017) 321–328. IF 2.499, Q 1

Osvald, J.: Interface traps contribution to capacitance of Al₂O₃/(GaN)AlGa_{0.5}N/GaN heterostructures at low frequencies, *Physica E* 93 (2017) 238-242. IF 2.221, Q 2

Osvald, J., Vanko, G., Chow, L., Chen, N.C., and Chang, L.B.: Transition voltage of AlGa_{0.5}N/GaN heterostructure MSM varactor with two-dimensional electron gas, *Microelectron. Reliab.* 78 (2017) 243–248. IF 1.371, Q 3

Španková, M., Štrbík, V., Chromik, Š., Zheng, D.N., Li, J., Machajdík, D., Kobzev, A.P., Plecenik, T., and Sojková, M.: Characterization of epitaxial LSMO films grown on STO substrates, *Acta Phys. Polonica A* 131 (2017) 848-850. IF 0.469, Q 4

Sojková, M., Nurgaliev, T., Štrbík, V., Chromik, Š., Blagoev, B., and Španková, M.: LSMO/YBCO heterostructures and investigation of „negative“ resistance effect in the interface, *Acta Phys. Polonica A* 131 (2017) 842-844. IF 0.469, Q 4

Štrbík, V., Beňačka, Š., Gaži, Š., Španková, M., Šmatko, V., Knoška, J., Gál, N., Chromik, Š., Sojková, M., and Pisarčík, M.: Superconductor-ferromagnet-superconductor nanojunctions from perovskite materials, *Applied Surface Sci* 395 (2017) 237-240. IF 3.387, Q 1

Kutiš, V., Paulech, J., Gálik, G., Lalinský, T., Vanko, G., Hrabovský, J., and Jakubec, J.: Thermal analysis of microbolometer. In: *Proc. 23th Inter. Conf. on Applied Phys. of Cond. Matter (APCOM 2017)*. Eds. J. Vajda and I. Jamnický. Bratislava: FEI STU 2017. ISBN 978-80-227-4699-1. P. 267-271.

Španková, M., Chromik, Š., Talacko, M., Dobročka, E., and Lalinský, T.: Some peculiarities at preparation of Bi₄Ti₃O₁₂ films for bolometric applications. In: *5th Inter. Conf. "Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News "* (SURFINT-SREN V). Florence 2017. Výveska.

Vanko, G., Lalinský, T., Držík, M., Chromik, Š., Dzuba, J., Haščík, Š., Babchenko, O., and Lobotka, P.: Residual stress in PLD grown buffer layers for bolometric application. In: *5th Inter. Conf. "Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News "* (SURFINT-SREN V). Florence 2017. Výveska.

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

Zodpovedný riešiteľ: Zoltán Lenčoš
Zodpovedný riešiteľ v organizácii SAV: Karol Fröhlich
Trvanie projektu: 1.7.2015 / 30.6.2019
Evidenčné číslo projektu: 14-0385
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav anorganickej chémie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 9702 €

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

Zodpovedný riešiteľ: Eva Majková
Zodpovedný riešiteľ v organizácii SAV: Zdenko Zápražný
Trvanie projektu: 1.7.2015 / 30.6.2019
Evidenčné číslo projektu: 14-0745
Organizácia je koordinátorom projektu: nie
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 24999 €

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

Zodpovedný riešiteľ: Jozef Novák
Trvanie projektu: 1.7.2017 / 31.12.2020
Evidenčné číslo projektu: 16-0129
Organizácia je koordinátorom projektu: nie
Koordinátor: Žilinská univerzita
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 4699 €

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

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

Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 35611 €

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

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

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

Zodpovedný riešiteľ: Ján Šouc
Trvanie projektu: 1.7.2015 / 31.12.2018
Evidenčné číslo projektu: 14-0438
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 35807 €

Dosiahnuté výsledky:

Šouc, J., Gömöry, F., Vojenčiak, M., Seiler, E., Kováč, J., and Frolek, L.: Superconducting HTS coil made from round cable cooled by liquid nitrogen flow, Supercond. Sci Technol. 30 (2017) 105014. IF 2.878

Gömöry, F. and Sheng, J.: Two ways of evaluating the loss per AC cycle in a superconducting object, Supercond. Sci Technol. 30 (2017) 064005.

Programy: SASPRO

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

Zodpovedný riešiteľ: Oleg Babchenko
Trvanie projektu: 1.5.2015 / 30.4.2018

Evidenčné číslo projektu: 0068/01/01
Organizácia je áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: SAV: 54620 €

Dosiahnuté výsledky:

Babchenko, O., Dzuba, J., Lalinský, T., Vojs, M., Vincze, A., Ižák, T., and Vanko, G.: Stability of AlGaIn/GaN heterostructures after hydrogen plasma treatment, Applied Surface Sci 395 (2017) 92-97.

Lalinský, T., Vanko, G., Dobročka, E., Osvald, J., Babchenko, O., Dzuba, J., Veselý, M., Vančo, L., Vogrinčič, P., and Vincze, A.: Ir/Al multilayer gates for high temperature operated AlGaIn/GaN HEMTs, Phys. Status Solidi A 214 (2017) 1700691.

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

Zodpovedný riešiteľ: Michal Mruczkiewicz
Trvanie projektu: 4.1.2016 / 31.12.2018
Evidenčné číslo projektu: 1244/02/01
Organizácia je áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: SAV: 48959 €

Dosiahnuté výsledky:

Mruczkiewicz, M., Krawczyk, M., Guslienko, K.: Spin excitation spectrum in a magnetic nanodot with continuous transitions between the vortex, Bloch-type skyrmion, and Néel-type skyrmion states, Phys. Rev. B 95 (2017) 094414.

Zeissler, K., Mruczkiewicz, M., Finizio, S., Raabe, J., Shepley, P., Sadovnikov, A.V, Nikitov, S.A., Fallon, K., McFadzean, S., McVitie, S., Moore, T., Burnell, G., and Marrows, C.: Pinning and hysteresis in the field dependent diameter evolution of skyrmions in Pt/Co/Ir superlattice stacks, Sci Rep. 7 (2017) 5125.

Mruczkiewicz, M., Graczyk, P., Lupo, P., Adeyeye, A., Gubbiotti, G., Krawczyk, M. : Spin-wave nonreciprocity and magnonic band structure in a thin permalloy film induced by dynamical coupling with an array of Ni stripes, Phys. Rev. B 96 (2017) 104411.

Zelent, M., Tóbiš, J., Krawczyk, M., Guslienko, K., Mruczkiewicz, M. : Bi-stability of magnetic skyrmions in ultrathin multilayer nanodots induced by magnetostatic interaction, Physica Status Solidi RRL 11 (2017) 1700259.

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

Zodpovedný riešiteľ: Eugen Seiler

Trvanie projektu: 1.1.2016 / 31.12.2018
Evidenčné číslo projektu: 1633/03/01-b
Organizácia je áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: SAV: 61722 €

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

Zodpovedný riešiteľ: Michal Vojenčiak
Trvanie projektu: 1.4.2015 / 31.3.2017
Evidenčné číslo projektu: 0061/01/01
Organizácia je áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: SAV: 59446 €

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

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- ADCA03 BRUNNER, Boris - KOVÁČ, Pavol - ROSOVÁ, Alica - REISSNER, M. - DOBROČKA, Edmund. Properties of MgB₂ wires doped with BaZrO₃ nanopowder made by a modified internal magnesium diffusion process. In Superconductor Science and Technology, 2017, vol. 30, 115003. (2.878 - IF2016). (2017 - Current Contents). ISSN 0953-2048.
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ADCA240

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ADMB08 RÝGER, Ivan - VANKO, Gabriel - KUNZO, Pavol - LALINSKÝ, Tibor - VALLO, Martin - PLECENÍK, A. - SATRAPINSKY, L. - PLECENÍK, T. AlGa_N/Ga_N HEMT based hydrogen sensors with gate absorption layers formed by high temperature oxidation. In Procedia Engineering, 2012, vol. 47, p. 518-521. (2012 - SCOPUS, WOS). ISSN

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ADMB11

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

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ADNA01

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. (0.370 - IF2011). (2012 - INSPEC, SCOPUS). ISSN 1335-3632.

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

AEC01 BELYAEV, A.A. - KONAKOVA, R.V. - MILENIN, V.V. - BREZA, J. - LALINSKÝ, Tibor. Radiation effects in surface-barrier Ir-Al/a-GaAs structures. In ASDAM '98 : Proceedings of the 2nd International Conference on Advanced Semiconductor Devices and Microsystems. Ed.: J. Breza. - Piscataway : IEEE, 1998, p. 231-233.

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AFC01 DZUBA, Jaroslav - VANKO, Gabriel - RÝGER, Ivan - VALLO, Martin - KUTIŠ, V. - LALINSKÝ, Tibor. Influence of temperature on the sensitivity of the AlGaIn/GaN C HEMT

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KOVÁČ, Jaroslav - UHEREK, F. - ŠATKA, A. - WACLAWEK, J. - JAKABOVIČ, J. - SRNÁNEK, R. - RHEINLÄNDER, B. - GOTTSCHALCH, V. - HASENÖHRL, Stanislav - NOVÁK, Jozef - BARNA, A. - WOOD, J. In AlGaAs-InGaAs-InP RCE PIN Photodiode for 1300nm wavelength region. In Proceedings of 8th International Conference on Indium Phosphide and Related Materials : IPRM '96. - IEEE, 1996, p. 219. ISBN 0-7803-3283-0.

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AFC03

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

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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.

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AFC05

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

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1. [1.1] ROSSETTO, I. - MENEGHINI, M. - RIZZATO, V. - RUZZARIN, M. - FAVARON, A. - STOFFELS, S. - VAN HOVE, M. - POSTHUMA, N. - WU, T.L. - MARCON, D. - DECOUTERE, S. - MENEGHESSO, G. - ZANONI, E. In MICROELECTRONICS RELIABILITY. SEP 2016, vol. 64, SI, p. 547-551., WOS

AFC06

ĎAPAJNA, Milan - GREGUŠOVÁ, Dagmar - ČIČO, Karol - FEDOR, Ján - CARLIN, J.-F. - GRANDJEAN, N. - KILLAT, N. - KUBALL, M. - KUZMÍK, Ján. Early stage degradation of InAlN/GaN HEMTs during electrical stress. In ASDAM 2012 : conference proceedings. Eds. Š. Haščík, J. Osvald. - Piscataway : IEEE, 2012, p. 7-10. ISBN 978-1-4673-1195-3.

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AFC07

ZÁVIŠOVÁ, Vlasta - TOMAŠOVIČOVÁ, Natália - KOVÁČ, Jozef - KONERACKÁ, Martina - KOPČANSKÝ, Peter - VÁVRA, Ivo. Synthesis and characterisation of rod-like magnetic nanoparticles. In NANOCON 2010: 2nd international conference, October 12th -

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AFD Publikované príspevky na domácich vedeckých konferenciách

- AFD01 KUTIŠ, V. - GÁLIK, G. - RÝGER, Ivan - PAULECH, J. - MURÍN, Justín - HRABOVSKÝ, Juraj - LALINSKÝ, Tibor. Modal and transient analysis of SAW MEMS sensor. In Proceedings of the 19th International Conference on Applied Physics of Condensed Matter : APCOM 2013. Eds. J.Vajda, I.Jamnický. - Bratislava : Nakladateľstvo STU Bratislava, 2013, p. 221-224. ISBN 978-80-227-3956-6.

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

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Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Ing. Gabriel Vanko, PhD.

Názov semestr. predmetu: MEMS Senzory v automobiloch

Počet hodín za semester: 7

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

Mgr. Bohumír Zat'ko, PhD

Názov semestr. predmetu: Jadrová fyzika a elektronika

Počet hodín za semester: 4

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

Semestrálne cvičenia:

Ing. Gabriel Vanko, PhD.

Názov semestr. predmetu: MEMS Senzory v automobiloch

Počet hodín za semester: 7

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

Semináre:

Terénne cvičenia:

Individuálne prednášky:

doc. Ing. Fedor Gömöry, DrSc.

Názov semestr. predmetu: Superconductor/ferromagnetic cloaks for shielding of magnetic fields

Počet hodín za semester: 2

Názov katedry a vysokej školy: University of Kyóto, Japonsko, Graduate School of Engineering

Príloha E**Medzinárodná mobilita organizácie****(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:**

| Krajina | D r u h d o h o d y | | | | | |
|------------|---------------------|-----------|-----------------|-----------|----------------------|-----------|
| | MAD, KD, VTS | | Medziústavná | | Ostatné | |
| | Meno pracovníka | Počet dní | Meno pracovníka | Počet dní | Meno pracovníka | Počet dní |
| Belgicko | | | | | Ivan Kundrata | 5 |
| | | | | | Michal Mruczkiewicz | 3 |
| | | | | | Zdenko Zápražný | 5 |
| Bulharsko | Vladimír Štrbík | 6 | | | Karol Fröhlich | 3 |
| Česko | František Dubecký | 4 | | | Oleg Babchenko | 5 |
| | | | | | Oleg Babchenko | 3 |
| | | | | | Oleg Babchenko | 5 |
| | | | | | Oleg Babchenko | 3 |
| | | | | | Dagmar Gregušová | 3 |
| | | | | | Stanislav Hasenöhlrl | 5 |
| | | | | | Eva Kováčová | 1 |
| | | | | | Agáta Laurenčíková | 3 |
| | | | | | Jozef Novák | 3 |
| | | | | | Marián Precner | 1 |
| | | | | | Vasilij Šmatko | 1 |
| | | | | | Gabriel Vanko | 3 |
| | | | | | Gabriel Vanko | 5 |
| | | | | | Bohumír Zaťko | 1 |
| Estónsko | Jana Brndiarová | 10 | | | | |
| Francúzsko | | | | | Fedor Gömöry | 6 |
| | | | | | Milan Kapolka | 3 |
| | | | | | Dušan Korytár | 6 |
| | | | | | Marek Mošať | 6 |
| | | | | | Enric Pardo | 3 |
| | | | | | Enric Pardo | 3 |
| | | | | | Michal Vojenčiak | 6 |
| Holandsko | | | | | Fedor Gömöry | 3 |
| Izrael | Štefan | 10 | | | | |

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|-------------|------------|---|--|--|---------------------|----|
| | Chromík | | | | | |
| | Ján Kuzmík | 7 | | | | |
| Japonsko | | | | | Michal Blaho | 42 |
| | | | | | Fedor Gömöry | 12 |
| | | | | | Dagmar Gregušová | 13 |
| | | | | | Ján Kuzmík | 13 |
| Lotyšsko | | | | | Marianna Španková | 4 |
| | | | | | Marcel Talacko | 4 |
| Luxembursko | | | | | Štefan Chromík | 4 |
| | | | | | Marcel Talacko | 4 |
| Maďarsko | | | | | Eva Kováčová | 4 |
| | | | | | Peter Lobotka | 5 |
| | | | | | Peter Lobotka | 5 |
| | | | | | Peter Lobotka | 5 |
| | | | | | Michaela Sojková | 3 |
| Nemecko | | | | | Fedor Gömöry | 3 |
| | | | | | Ján Kuzmík | 5 |
| | | | | | Enric Pardo | 3 |
| | | | | | Michal Vojenčiak | 4 |
| Poľsko | | | | | Pavol Kováč | 4 |
| | | | | | Michal Mruczkiewicz | 3 |
| Rusko | | | | | Daniel Machajdík | 90 |
| | | | | | Bohumír Zaťko | 5 |
| Španielsko | | | | | Fedor Gömöry | 3 |
| | | | | | Pavol Kováč | 4 |
| | | | | | Marek Mošat' | 3 |
| | | | | | Michal Mruczkiewicz | 6 |
| | | | | | Enric Pardo | 3 |
| | | | | | Enric Pardo | 2 |
| | | | | | Michal Vojenčiak | 3 |
| | | | | | Michal Vojenčiak | 3 |
| Švajčiarsko | | | | | Fedor Gömöry | 3 |
| | | | | | Michal Mruczkiewicz | 3 |
| | | | | | Eugen Seiler | 3 |
| Švédsko | | | | | Martin Hulman | 2 |
| | | | | | Ivan Kandrata | 3 |

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|----------------------------|-------------------|-----------|--|--|---------------------|------------|
| Taliansko | František Dubecký | 12 | | | | |
| | Bohumír Zafko | 10 | | | | |
| USA | | | | | Marián Precner | 18 |
| Veľká Británia | | | | | Milan Kapolka | 32 |
| | | | | | Michal Mruczkiewicz | 10 |
| | | | | | Milan Ťapajna | 3 |
| Počet vyslaní spolu | 7 | 59 | | | 64 | 433 |

(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 | | | | | Dominec F. | 3 |
| | | | | | Hospodková A. | 3 |
| | | | | | Hubáček T. | 3 |
| | | | | | Hulicius E. | 6 |
| | | | | | Hulicius E. | 3 |
| | | | | | Ižák T. | 8 |
| | | | | | Ižák T. | 2 |
| | | | | | Jirásek V. | 6 |
| | | | | | Kromka A. | 5 |
| | | | | | Zíková M. | 8 |
| Čína | | | | | Shuo Li | 7 |
| Irán | | | | | Juybari A.G. | 46 |
| Japonsko | | | | | Nagasaki Y. | 365 |
| Maďarsko | Hajagos-Nagy K. | 3 | | | | |
| | Radnóczy G. | 5 | | | | |
| Poľsko | Gierlowski P. | 5 | | | | |
| | Zaytseva I. | 5 | | | | |
| Španielsko | | | | | Miranda E. | 29 |
| Taliansko | Ferrari C. | 6 | | | Insinga A.R. | 57 |
| Turecko | | | | | Inanir F. | 29 |
| Ukrajina | | | | | Brylavskiy J. | 90 |
| Počet prijatí spolu | 5 | 24 | | | 17 | 670 |

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

| Krajina | Názov konferencie | Meno pracovníka | Počet dní |
|------------|-------------------|-----------------|-----------|
| Bulharsko | VEIT 2017 | Vladimír Štrbík | 7 |
| Česko | NANOCON 2017 | Ján Šoltýs | 3 |
| | Struktura | Zdenko Zápražný | 4 |
| | Struktuta | Edmund Dobročka | 4 |
| Francúzsko | E-MRS | Jozef Novák | 6 |
| | EGF | Jana Brndiarová | 4 |
| | ICNS | Ján Kuzmík | 6 |

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|-------------|----------------|---------------------|----|
| | | Milan Ťapajna | 6 |
| | MOVPE | Stanislav Hasenöhrl | 6 |
| | Nanotech | Ján Šoltýs | 3 |
| | STFac | Tomáš Ščepka | 2 |
| Holandsko | MT25 | Fedor Gömöry | 6 |
| | | Pavol Kováč | 6 |
| Japonsko | IDGN | Ján Kuzmík | 6 |
| | NANO | Milan Ťapajna | 8 |
| | WHM 2017 | Dagmar Gregušová | 6 |
| | | Ján Kuzmík | 4 |
| Mexiko | IMRC 2017 | Marián Precner | 6 |
| Nemecko | Cryogenics | Lubomír Frolek | 5 |
| | IWC-HTS | Michal Vojenčiak | 5 |
| | NanoCarbon | Martin Hulman | 3 |
| Poľsko | iWoRiD 2017 | Bohumír Zaťko | 6 |
| | MagIC2017 | Michal Mruczkiewicz | 6 |
| | PM17 | Vladimír Cambel | 6 |
| | | Michal Mruczkiewicz | 6 |
| Portugalsko | MNE 2017 | Ján Šoltýs | 5 |
| Rakúsko | IWEPNM | Oleg Babchenko | 8 |
| | | Jana Brndiarová | 8 |
| | | Martin Hulman | 8 |
| Španielsko | Sol-SkyMag2017 | Michal Mruczkiewicz | 9 |
| | SPIE MT | Jozef Novák | 6 |
| | WAMHTS | Michal Vojenčiak | 3 |
| Švajčiarsko | EUCAS 2017 | Fedor Gömöry | 7 |
| | | Milan Kapolka | 7 |
| | | Ján Kováč | 7 |
| | | Pavol Kováč | 7 |
| | | Miloslav Kulich | 7 |
| | | Enric Pardo | 7 |
| | | Eugen Seiler | 7 |
| | | Mykola Soloviov | 7 |
| | | Michal Vojenčiak | 7 |
| Švédsko | EuroCVD | Karol Fröhlich | 4 |
| | | Ivan Kunderata | 4 |
| Taliansko | SSI 21 | Karol Fröhlich | 8 |
| | SURFINT-SREN V | Oleg Babchenko | 5 |
| | | Edmund Dobročka | 5 |
| | | František Dubecký | 5 |
| | | Dagmar Gregušová | 5 |
| | | Agáta Laurenčíková | 5 |
| | | Jozef Novák | 5 |
| | | Roman Stoklas | 5 |
| | | Marianna Španková | 5 |
| | | Gabriel Vanko | 5 |
| | | Bohumír Zaťko | 5 |
| Ukrajina | NAP2017 | Vladimír Cambel | 4 |
| USA | AFM 2017 | Jozef Huran | 2 |
| | SPIE | Michaela Sojková | 10 |

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|----------------|-----------|---------------------|------------|
| Veľká Británia | TOP | Michal Mruczkiewicz | 4 |
| Spolu | 34 | 58 | 326 |

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

Skratky použité v tabuľke C:

AFM 2017 - 3rd International Conference on Advances in Functional Materials
 Cryogenics - 14th CRYOGENICS 2017 IIR International Conference
 E-MRS - E-MRS 2017 Spring Meeting
 EGF - 3rd Edition of the European Graphene Forum 2017
 EUCAS 2017 - 13th European Conference on Applied Superconductivity
 EuroCVD - Joint EuroCVD 21 – Baltic ALD 15 Conference
 ICNS - 12th International Conference on Nitride Semiconductors
 IDGN - 3rd Intensive Discussion on Growth of Nitride Semiconductors
 IMRC 2017 - XXVI International Materials Research Congress
 IWC-HTS - 2nd International Workshop on Cooling Systems for HTS Applications
 IWEPM - 31st International Winterschool on Electronic Properties of Novel Materials
 iWoRiD 2017 - 19th International Workshop on Radiation Imaging Detectors
 MagIC2017 - Workshop MagIC 2017 Magnetism, Interactions and Complexity: a multifunctional aspects of spin wave dynamics
 MNE 2017 - 43th Conference on Micro and Nanoengineering
 MOVPE - 17th European Workshop on Metal-Organic Vapour Phase Epitaxy
 MT25 - 25th International Conference on Magnet Technology
 NANO - 6th International Symposium on Organic and Inorganic Electronic Materials and Related Nanotechnologies
 NanoCarbon - NanoCarbon Annual Conference 2017
 NANOCON 2017 - 9th International Conference on Nanomaterials - Research & Application
 Nanotech - Nanotech France 2017 NanoMaterials for Energy & Environment NanoMatEn 2017 – NanoMetrology 2017
 Joint International Conferences and Exhibition
 NAP2017 - 7th International Conference Nanomaterials: Application & Properties
 PM17 - European Conference Physics of Magnetism 2017
 Sol-SkyMag2017 - e 2 nd International Conference on Nanomagnetism and Spintronics
 SPIE - SPIE NanoScience + Engineering 2017
 SPIE MT - SPIE Micro Technologies 2017
 SSI 21 - 21st International Conference of Solid State Ionics
 STFac - 1st Paris-Saclay Workshop on Spintronics
 Struktura - Kolokvium Struktura 2017
 Struktuta - Kolokvium Struktura 2017
 SURFINT-SREN V - 5th international conference "Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News"
 TOP - International Workshop on Topological Structures in Ferroic Materials
 VEIT 2017 - 20th International Summer School on Vacuum, Electron and Ion Technologies
 WAMHTS - 4th Workshop of the series Accelerator Magnets in High Temperature Superconductors
 WHM 2017 - 12th Topical Workshop on Heterostructure Microelectronics

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

| Meno | Spoluautori | Typ¹ | Názov | Miesto zverejnenia | Dátum alebo počet za rok |
|----------------------------------|---|------------------------|--|--------------------------------------|---------------------------------|
| doc. RNDr. Edmund Dobročka, CSc. | | EX | Exkurzia študentov ŽU v rtg laboratóriu | EIÚ SAV Bratislava | 21.4.2017 |
| doc. Ing. Fedor Gömöry, DrSc. | | PB | Night of Chances | SjF STU | 25.4.2017 |
| doc. Ing. Fedor Gömöry, DrSc. | | RO | Nočná pyramída | RTVS - Slovenský rozhlas | 27.3.2017 |
| doc. Ing. Fedor Gömöry, DrSc. | | PB | Veda pri víne | Kaviareň Leháro, Trnava | 22.3.2017 |
| Ing. Filip Guemann, PhD. | | TL | Blog EIÚ SAV: Pýtajte sa!!! | OKO 1/2017 | 31.1.2017 |
| Ing. Marián Precner, PhD. | | TL | Doktorandské štúdium ako cesta spoznávať svet | OKO 5/2017 | 30.5.2017 |
| Ing. Tomáš Ščepka, PhD. | 01/2017-03/2017 | PB | Veda nás baví | Krúžok pre 1.-3. ročník ZŠ Mudroňova | 2017 |
| Ing. Ján Šoltýs, PhD | | IN | CESTA K POVOLANIU: Učarila mi vôňa taviaceho sa cínu, spomína odborník na nanoštruktúry Ján Šoltýs | EDUCTECH.sk | 11.9.2017 |
| Ing. Ján Šoltýs, PhD | | IN | Slovenský vedec - Ján Šoltýs | CVTI | 8.6.2017 |
| Ing. Ján Šoltýs, PhD | | PB | Vynálezy, ktoré nám umožnili nahliadnuť do nanosveta | CVTI - Vedecká cukráreň | 25.4.2017 |
| Ing. Ján Šoltýs, PhD | | IN | Vynálezy, ktoré nám umožnili nahliadnuť do nanosveta | Veda na dosah | 28.3.2017 |
| Ing. Milan Ľapajna, PhD. | | TL | A százéves izzó titka (vyjadrenie k téme) | ÚJ SZÓ | 2.9.2017 |
| Ing. Milan Ľapajna, PhD. | | TL | Blog EIÚ SAV: Čakanie na Kybernéta | OKO 3/2017 | 30.3.2017 |
| Ing. Milan Ľapajna, PhD. | M. Blaho, L. Frolek, D. Gregušová, A. Laurenčíková, M. Mošat', R. Stoklas, R. Ries | iné | Európska noc výskumníkov 2017 | Bratislava | 29.9.2017 |
| Ing. Milan Ľapajna, PhD. | O. Babchenko, P. Barančeková, Husaniková, M. Blaho, V. Cambel, E. Dobročka, P. Eliáš, K. Fröhlich, L. Frolek, N. Gál, | EX | Deň otvorených dverí | Bratislava | 7.11.2017 |

| | | | | | |
|--|---|--|--|--|--|
| | A. Gömöryová, D. Gregušová, S. Hasenöhrl, P. Hutár, Š. Chromik, M. Kapolka, J. Kováč, E. Kováčová, R. Kúdela, T. Kujovič, I. Kundrata, A. Laurenčíková, T. Melíšek, E. Mikulášová, M. Mošat', M. Precner, R. Ries, A. Seifertová, E. Seiler, M. Solovyov, R. Stoklas, T. Ščepka, P. Šichman, J. Šoltýs, J. Šouc, M. Španková, M. Talacko, G. Vanko | | | | |
|--|---|--|--|--|--|

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