**Tabuľka: Oddelenie fyziky nízkych teplôt**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A | B | | | | | | C | D | E | F | G | H | J | K |
|  | **Počet WOS publikácií 2016, klasifikácia podľa SCIMAGO** | | | | | | Počet APVV  **A/B** | Bilateral  **APVV/MAD** | **Počet COST, ...iné** | **Počet H2020**  **R/P** | **Počet PhD** | Počet VŠ  **V/T** | **Počet SŠ** | **FTE** |
|  | Q1 | Q2 | Q3 | Q4 |  | Q1P |  |  |  |  |  |  |  |  |
| oddelenie | **8**  (+2) | **3**  (+3) | **0**  (+4) | **0** | **11**  (+9) | **4** | **1/0** | **1/2** | **1** | **0/2** | **6** | **12/1** | **1** | **10** |
| **odd /FTE** | **0.8**  (1) | **0.3**  (0.6) | **0**  (0,4) | **0** | **1.1**  (2) | **0.4** |  |  |  |  |  |  |  |  |

+ publikácie prijaté, s DOI, ale v tlačenej forme vyjdú v roku 2017

1. **P. Szabó, T. Samuely, V. Hašková, J. Kačmarčík, M. Žemlička**, M. Grajcar, J. G. Rodrigo, and **P. Samuely**: Fermionic scenario for the destruction of superconductivity in ultrathin MoC films evidenced by STM measurements, **Phys. Rev. B** 93, 014505 (2016). IF=3,8, Q1P
2. **Z. Medvecká**, T. Klein, V. Cambel, J. Šoltýs, G. Karapetrov, F. Levy-Bertrand, B. Michon, C. Marcenat, **Z. Pribulová, and P. Samuely**: Observation of a transverse Meissner effect in CuxTiSe2 single crystals, **Phys. Rev. B** 93, 100501(R) (2016). IF=3,8, Q1P
3. J**. Kačmarčík, Z. Pribulová,** T. Samuely, **P. Szabó**, V. Cambel, J. Šoltýs, E. Herrera, H. Suderow, A. Correa-Orellana, D. Prabhakaran, and **P. Samuely**: Single-gap superconductivity in ß-Bi2Pd, **Phys. Rev. B** 93, 144502 (2016). IF=3,8, Q1P
4. F. Levy-Bertrand, B. Michon, J. Marcus, C. Marcenat, **J. Kačmarčík**, T. Klein, H. Cercellier: Puzzling evidence for surface superconductivity in the layered dichalcogenide Cu10%TiSe2, **Physica C** 523, 19 (2016). IF=0,8, Q2
5. K. Nishiyama, T. Mito, **G.** **Pristáš**, T. Koyama, K. Ueda, T. Kohara, **S. Gabáni, K. Flachbart**, H. Fukazawa, Y. Kohori, N. Takeshita, N. Shitsevalova, and H. Ikeda: High-pressure induced modifications in the hybridization gap of the intermediate-valence compound SmB6, **Phys. Rev. B** 93, 121111(R) (2016). IF=3,8, Q1
6. N. E. Sluchanko, A. N. Azarevich, M. A. Anisimov, A. V. Bogach, S. Yu. Gavrilkin, M. I. Gilmanov, V. V. Glushkov, S. V. Demishev, A. L. Khoroshilov, A. V. Dukhnenko, K. V. Mitsen, N. Yu. Shitsevalova, V. B. Filippov, V. V. Voronov, and **K. Flachbart**: Suppression of superconductivity in LuxZr1-xB12: Evidence of static magnetic moments induced by nonmagnetic impurities, **Phys. Rev. B** 93, 085130 (2016). IF=3,8, Q1
7. **S. Gabáni, M. Orendáč, G. Pristáš, E. Gažo,** **P. Diko, S. Piovarči**, V. Glushkov, N. Sluchanko, A. Levchenko, N. Shitsevalova & **K. Flachbart**: Transport properties of variously doped SmB6, **Philosophical Magazine** 96, 3274-3283 (2016). IF=1,4, Q1P
8. S. V. Demishev, I.I. Lobanova, A.V. Bogach, V.V. Glushkov, V.Yu. Ivanov, T.V. Ischenko, N.A. Samarin, N.E. Sluchanko, **S. Gabáni,** E. Čižmár, **K. Flachbart,** N.M. Chubova, V.A. Dyadkin, S.V. Grigoriev: Effect of a magnetic field on the intermediate phase in Mn1-xFexSi: Spin-liquid versus fluctuations scenario, **JETP Letters** 103, 321-327 (2016). IF=1,2, Q2
9. Khoroshilov A.L., Azarevich A.N., Bogach A.V., Glushkov V.V., Demishev S.V., Krasnorussky V.N., Voronov V.V., Shitsevalova N.Yu., Filippov V.B., **Gabáni S.**, Flachbart K., Sluchanko N.E.: Isosbestic point and magnetoresistance components in **Ho0.5Lu0.5B12**:

**J. Low Temp. Phys.** 185 (2016) 522-530, IF=0.8, Q2

1. Maillet, O.; **Vavrek, F**.; Fefferman, A. D.; et al. Classical decorence in a nanomechanical resonator, **NEW JOURNAL OF PHYSICS** 18, 073022 (2016), IF= 3.6, Q1
2. D. Schmoranzer, M. J. Jackson, V. Tsepelin, M. Poole, A. J. Woods, **M. Človečko**, and L. Skrbek, Multiple Critical Velocities in Oscillatory Flow of Superfluid 4He due to Quartz Tuning Forks, **Phys. Rev. B** 94, 214503 (2016), IF=3,8, Q1

**Prijaté na publikovanie:**

1. M. Obaida, L. Galdun, T. Ryba, V. [Komanick](http://exphys.science.upjs.sk/?q=en/users/vladimir-komanicky)y**,** K. Saksl, M. Durisin, J. Kovac, **V. Haskova, P. Szabo**, Z. Vargova, R.Varga: Spin polarization inCu2MnSn Heusler Alloy produced by Melt-Spinning. I**ntermetallics** 2017?, IF=2.5, Q1
2. Gufei Zhang, Tomas Samuely, **Jozef Kačmarčík**, Evgeny A. Ekimov, Jun Li, Johan Vanacken, **Pavol Szabó**, Junwei Huang, Paulo J. Pereira, Dorin Cerbu, and Victor V. Moshchalkov, [Bosonic anomalies in boron-doped polycrystalline diamond](http://journals.aps.org/prapplied/accepted/fb075A52G4517c0150b058d7417a2cab608214f19), **Phys. Review Applied**, IF=4.1, Q1
3. **Gabáni S., Orendáč M., Kušnír J., Gažo E., Pristáš G.,** Mori T., **Flachbart K.:** Pressure dependence of the G.-L. parameter in superconducting YB6 **Journal of Low Temperature Physics** (2017), (Q2)
4. **Orendáč M., Gabáni S., Gažo E., Pristáš G., Flachbart K.,** Mori T., Wang X., Kamenev : Pressure effect on the Einstein-like phonon mode in superconducting YB6 **Journal of Low Temperature Physics** (2017), (Q2)
5. **Orendáč M., Gabáni S., Pristáš G., Gažo E.,** Shitsevalova N., **Flachbart K**.: Influence of pressure on the electron-phonon interaction in superconductors, **Acta Physica Polonica** (2017), (Q3) - CSMAG´16
6. Sluchanko N., Azarevich A., Bogach A., Gavrilkin S., Glushkov V., Demishev S., Mitsen K., Shitsevalova N., Filippov V.B., **Gabáni S.**, **Flachbart K.**: Superconductivity in LuxZr1-xB12 dodecaborides with cage-glass crystal structur **Acta Physica Polonica** (2017), (Q3) - CSMAG´16
7. **Pristáš G., Gabáni S.**, Baťko I., Baťková M., **Orendáč M., Gažo E**., Filipov V., Konovalova E., Diko P., Flachbart K.: Influence of pressure on the electrical transport properties of carbon-doped EuB6, **Acta Physica Polonica** (2017), (Q3) - CSMAG´16
8. Glushkov V., Azarevich A., Anisimov M., Bogach A., Demishev S., Dukhnenko A., Filippov V., **Flachbart K., Gabáni S**., Gavrilkin S., Kondrin M., Shitsevalova N., Sluchanko: Charge transport and magnetism in Tm0.03Yb0.97B12 **Acta Physica Polonica** (2017), (Q3) - CSMAG´16
9. **M. Človečko, M. Grajcar, M. Kupka**, P. Neilinger, M. Rehák, **P. Skyba, F. Vavrek**, High *Q* value Quartz Tuning Fork in Vacuum as a Potential Thermometer in Millikelvin Temperature Range**, J. Low Temp. Phys**. on line, DOI: 10.1007/s10909-016-1696-4 (Q2)

**Najcitovanejší autor oddelenia:** K. Flachbart, 68 citácií/2015

**Autor s najväčším počtom publikácií**, K. Flachbart 5 CC publikácií/2016

**Skupiny**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A | | | B | C | | | | | | D | E | F | G | H | J | K | L |
| **Skupina**  **Meno, vek, FTE** | | | **celk WOS publ.** | **Počet WOS publikácií 2016, klasifikácia podľa SCIMAGO** | | | | | | Počet APVV  **A/B** | Bilateral  **APVV/MAD** | **Počet COST ...iné** | **Počet H2020**  **R/P** | **Počet PhD** | **Celkom počet citácií** | **Počet citácii 2015** | **h-index WOS** |
|  | | |  | Q1 | Q2 | Q3 | Q4 |  | Q1P |  |  |  |  |  |  | | |
| **Supratekutosť**  Skupina celkovo 5 | | | ---- | 2 | 0  (+1) | 0 | 0 | 2  (+1) | 0 | 0/1 | 0 | 0 | 0 | 1 |
| **FTE = 3,7** | | | 0.54 | --- | --- | --- | 0.54 | 0 |  |  |  |  |  |
| Človečko | 35 | 1 | 16 | 1 | --- | --- | --- | 1 | 0 |  | | | |  | 205 | 11 | 6 |
| Kupka | 59 | 0,5 | 49 | 0 | --- | --- | --- | 0 | 0 |  | 59 | 1 | 5 |
| Skyba | 58 | 1 | 57 | 0 | --- | --- | --- | 0 | 0 |  | 315 | 8 | 10 |
| Vavrek | 28 | 1 | 3 | 1 | --- | --- | --- | 1 | 1 |  | 0 | 0 | 0 |
| E. Gažo | 55 | 0,2 |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A | | | | | | B | | C | | | | | | | | | | | | D | | E | | F | | G | H | | J | | K | | | L | |
| **Skupina**  **Supravodivosť** | | | | | | **WOS publ.** | | **Počet WOS publikácií 2016, klasifikácia podľa SCIMAGO** | | | | | | | | | | | | APVV  **A/B** | | Bilater  **APVV/MAD** | | **COST iné** | | **H 2020**  **R/P** | **PhD** | | **Celkový počet citácií** | | **Počet citácii 2015** | | | **h-index WOS** | |
|  | | | | | |  | | Q1 | | Q2 | | Q3 | | Q4 | |  | | Q1P | |  | |  | |  | |  |  | |  | | | | | | |
| **6 riešiteľov** | | | | | |  | | **3**  (+2) | | **1** | | **0** | | **0** | | **4**  (+2) | | **3** | | **1/0** | | **1/1** | | **1** | | **0/2** | **4** | |
| **FTE = 4,4** | | | | | |  | | **0.68** | | **0.23** | | **0** | | **0** | | **0.91** | | **0.68** | |  | |  | |  | |  |  | |
| Samuely | | 60 | | 1 | | 117 | | 3 | | 0 | |  | |  | | 3 | | 3 | |  | | | | | | | 0 | | 1406 | | 50 | | | 22 | |
| Szabó | | 48 | | 1 | | 88 | | 2 | | 0 | |  | |  | | 2 | | 2 | | 2 | | 1255 | | 45 | | | 18 | |
| Kačmarčík | | 44 | | 1 | | 60 | | 2 | | 1 | |  | |  | | 3 | | 2 | | 1 | | 1097 | | 59 | | | 14 | |
| Vargaeš-toková | | 38 | | 1 | | 41 | | 2 | | 0 | |  | |  | | 2 | | 2 | | 1 | | 444 | | 21 | | | 11 | |
| Žemlička | | 27 | | ,2 | | 3 | | 1 | | 0 | |  | |  | | 1 | | 1 | | 0 | | 4 | | 1 | | | 2 | |
| Gažo | | 55 | | ,2 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | | |  | |
| A | | | | | B | | C | | | | | | | | | | | | D | | E | | F | | G | | | H | | J | | K | L | |
| **Skupina**  **Meno, vek, FTE** | | | | | **celk WOS publ.** | | **Počet WOS publikácií 2016, klasifikácia podľa SCIMAGO** | | | | | | | | | | | | Počet APVV  **A/B** | | Bilateral  **BAPVV/MAD** | | **Počet COST ...iné** | | **Počet H2020**  **R/P** | | | **Počet PhD** | | **Celkový počet citácií** | | **Počet citácii 2015** | **h-index WOS** | |
|  | | | | |  | | Q1 | | Q2 | | Q3 | | Q4 | |  | | Q1P | |  | |  | |  | |  | | |  | | --------- | | | | |
| **SCES v extrémnych podmienkach**  Skupina celkovo | | | | | ---- | | **3** | | **2**  (+2) | | 0  (+4) | | --- | | **5**  (+6) | | **1** | | 0/2 | | 0/1 | | 0 | | 0 | | | 1 | |
| **FTE = 3.5**  Skupina / FTE | | | | | 0.85 | | 0.57 | | --- | | --- | | 1.43 | | 0.28 | |  | |  | |  | |  | | |  | |
| Flachbart | 64 | | 1 | | 141 | | 3 | | 2 | | --- | | --- | | 5 | | 1 | | ------------ | | | | | | | | | 0 | | 385 | | 68 | 17 | |
| Gabáni | 42 | | 1 | | 86 | | 2 | | 2 | | --- | | --- | | 4 | | 1 | | 1 | | 234 | | 63 | 12 | |
| Gažo | 55 | | 0.5 | | 40 | | 1 | | 0 | | --- | | --- | | 1 | | 1 | | 0 | | 1054 | | 68 | 9 | |
| Pristáš | 35 | | 1 | | 40 | | 2 | | 0 | | --- | | --- | | 2 | | 1 | | 0 | | 152 | | 16 | 5 | |