

Publikácie / Publications

Institute: SAVEXFYZ - Ústav experimentálnej fyziky SAV
Year of publication 2016~2021

Statistics publication category

AAB	Scientific monographs published in Slovak publishing houses	1
ABC	Chapters in scientific monographs published abroad	1
ACB	Academic/university textbooks published in Slovak publishing houses	1
ADCA	Scientific papers in foreign journals registered in Current Contents Connect with IF (impacted)	636
ADCB	Scientific papers in foreign journals registered in Current Contents Connect without IF (non-impacted)	1
ADDA	Scientific papers in domestic journals registered in Current Contents Connect with IF (impacted)	3
ADEB	Scientific papers in other foreign journals not registered in Current Contents Connect without IF (non-impacted)	2
ADFB	Scientific papers in other domestic journals not registered in Current Contents Connect without IF (non-impacted)	3
ADMA	Scientific papers in foreign impacted journals registered in Web of Sciences or Scopus	17
ADMB	Scientific papers in foreign non-impacted journals registered in Web of Sciences or Scopus	82
ADNA	Scientific papers in domestic impacted journals registered in Web of Sciences or Scopus	2
ADNB	Scientific papers in domestic non-impacted journals registered in Web of Sciences or Scopus	3
AEMA	Abstracts of scientific papers published in foreign impacted journals registered in Web of Science Core Collection or Scopus	9
AFB	Published invited papers from domestic scientific conferences	1
AFC	Published papers from foreign scientific conferences	5
AFD	Published papers from domestic scientific conferences	24
AFE	Abstracts of invited papers from foreign conferences	6
AFF	Abstracts of invited papers from domestic conferences	1
AFG	Abstracts of papers from foreign conferences	28
AFH	Abstracts of papers from domestic conferences	94
AFL	Domestic conferences posters	1
AGJ	Patent applications, utility model applications, design applications, trademark applications, applications for granting supplementary protection certificate, applications for registration of topographies of semiconductor products, designations of origin applications, geographical indications of goods and products applications, breeder's certificate applications	2
BCI	University course materials and instructional texts	1
BEF	Professional papers in domestic proceedings	2

	(conference/non-conference; peer-reviewed/non-peer-reviewed)	
DAI	Dissertations and habilitation theses	1
FAI	Editorial work on book publications (bibliographies, encyclopedias, catalogues, dictionaries, collective publications/proceedings, atlases ...)	6
GII	Other publications and documents which is not possible to categorize into classes/categories mentioned above	46
Count		979

AAB Scientific monographs published in Slovak publishing houses

- AAB01 KOPČANSKÝ, Peter - TIMKO, Milan - STUDENYAK, Ihor P. - KOVALCHUK, O.V. *Nanoparticles in homogeneous, micro- and nanometric structures based on liquid crystals: morphology and dielectric properties* = Nanočastinki v gomogennich mikro-ta nanorozmirnich pidkokristaličnych strukturach morfologija ta dielektrični vlastnosti. Košice : Institute of Experimental Physics Slovak Academy of Sciences, 2020. 199 s. ISBN 978-80-8143-275-0

ABC Chapters in scientific monographs published abroad

- ABC01 LUKÁČOVÁ BUJŇÁKOVÁ, Zdenka - SHPOTYUK, Oleh - DUTKOVÁ, Erika - TÓTHOVÁ, Erika - KOVÁČ, Jozef - KELLO, Martin - BALÁŽ, Matej - BALÁŽ, Peter. Processing of natural mineral magnetite for medical applications. In *Biocompatible Hybrid Oxide Nanoparticles for Human Health*. - Eastbourne, UK : Elsevier, 2019, p. 125-147. ISBN 978-0-12-815875-3.

ACB Academic/university textbooks published in Slovak publishing houses

- ACB01 VARGOVÁ, Hana. *Počítačová fyzika a modelovanie* [elektronický zdroj]. Recenzenti: Marián Reiffers, Peter Markoš, Martin Bača. Košice : Ústav experimentálnej fyziky SAV, 2019. 110 s. Názov z obrazovky. Požaduje sa Acrobat Reader. Dostupné na internete: <<https://home.saske.sk/~hcencar/>>. ISBN 978-80-89656-24-0

ADCA Scientific papers in foreign journals registered in Current Contents Connect with IF (impacted)

- ADCA01 ALEXOVIČ MATIÁŠOVÁ, Anna - ŠEVC, Juraj - TOMORI, Zoltán - GOMBALOVÁ, Zuzana - PAPCÚNOVÁ, Štefánia - DAXNEROVÁ, Z. Quantitative Analyses of Cellularity and Proliferative Activity Reveals the Dynamics of the Central Canal Lining During Postnatal Development of the Rat. In *The Journal of Comparative Neurology*, 2017, vol. 525, no. 3, p. 693-707. (2016: 3.266 - IF, Q1 - JCR, 2.243 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0021-9967. Dostupné na: <https://doi.org/10.1002/cne.24091>
- ADCA02 ALMÁŠI, Miroslav** - BEŇOVÁ, Eva - ZELENÁK, Vladimír - MADAJ, Branislav - HUNTOŠOVÁ, Veronika - BRUS, Jirí - URBANOVÁ, Martina - BEDNARČÍK, Jozef - HORNEBECQ, Virginie. Cytotoxicity study and influence of SBA-15 surface polarity and pH on adsorption and release properties of anticancer agent pemetrexed. In *Materials Science and Engineering C: Materials for Biological*

Applications, 2020, vol. 109, art. no. 110552. (2019: 5.880 - IF, Q1 - JCR, 1.149 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0928-4931. Dostupné na: <https://doi.org/10.1016/j.msec.2019.110552>

ADCA03 ALMÁŠI, Miroslav** - VILKOVÁ, Mária - BEDNARČÍK, Jozef. Synthesis, characterization and spectral properties of novel azo-azomethine-tetracarboxylic Schiff base ligand and its Co(II), Ni(II), Cu(II) and Pd(II) complexes. In *Inorganica Chimica Acta*, 2021, vol. 515, art. no. 120064. (2020: 2.545 - IF, Q2 - JCR, 0.437 - SJR, Q2 - SJR, Current Contents - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0020-1693. Dostupné na: <https://doi.org/10.1016/j.ica.2020.120064>

ADCA04 ALTAISKY, M.V.** - HNATÍČ, Michal - KAPUTKINA, N.E. Renormalization of viscosity in wavelet-based model of turbulence. In *Physical Review E*, 2018, vol. 98, no. 3, art. no. 033116. (2017: 2.284 - IF, Q1 - JCR, 0.979 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.98.033116>

ADCA05 ANISIMOV, Mikhail A. - GLUSHKOV, V. - BOGACH, A. - DEMISHEV, S.V. - SAMARIN, N.A. - SAMARIN, A. - SHITSEVALOVA, Natalya Yu. - LEVCHENKO, A.V. - FILIPOV, V. - GABÁNI, Slavomír - FLACHBART, Karol - SLUCHANKO, Nikolay E. Anisotropy of the Charge Transport in GdB6. In *Acta Physica Polonica A*, 2017, vol. 131, no. 4, p. 973-975. (2016: 0.469 - IF, Q4 - JCR, 0.227 - SJR, Q4 - SJR, Current Contents - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 1898-794X. Dostupné na: <https://doi.org/10.12693/APhysPolA.131.973>

ADCA06 ANTAL, Iryna - KONERACKÁ, Martina** - KUBOVČÍKOVÁ, Martina - ZÁVIŠOVÁ, Vlasta - KHMARA, Iryna - LUČANSKÁ, Daša - JELENSKÁ, Lenka - KAJANOVÁ, Ivana - ZAŤOVIČOVÁ, Miriam - PASTOREKOVÁ, Silvia - BUGÁROVÁ, Nikola - MIČUŠÍK, Matej - OMASTOVÁ, Mária - KOPČANSKÝ, Peter. D,L-lysine functionalized Fe3O4 nanoparticles for detection of cancer cells. In *Colloids and Surfaces B - Biointerfaces*, 2018, vol. 163, p. 236-245. (2017: 3.997 - IF, Q1 - JCR, 1.071 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0927-7765. Dostupné na: <https://doi.org/10.1016/j.colsurfb.2017.12.022>

ADCA07 ANTAL, Iryna - ŠTRBÁK, Oliver** - KHMARA, Iryna - KONERACKÁ, Martina - KUBOVČÍKOVÁ, Martina - ZÁVIŠOVÁ, Vlasta - KMEŤOVÁ, Martina - BARANOVIČOVÁ, Eva - BARANIČOVÁ, Eva - DOBROTA, Dušan. MRI Relaxivity Changes of the Magnetic Nanoparticles Induced by Different Amino Acid Coatings. In *Nanomaterials-Basel*, 2020, vol. 10, no. 2, art. no. 394. (2019: 4.324 - IF, Q2 - JCR, 0.858 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 2079-4991. Dostupné na: <https://doi.org/10.3390/nano10020394>

ADCA08 ANTAL, Iryna - KONERACKÁ, Martina - ZÁVIŠOVÁ, Vlasta - KUBOVČÍKOVÁ, Martina - KORMOSH, Zh. - KOPČANSKÝ, Peter. Statins Determination: A Review of Electrochemical Techniques. In *Critical Reviews in*

Analytical Chemistry, 2017, vol. 47, no. 6, p. 474-489. (2016: 4.000 - IF, Q1 - JCR, 0.810 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 1040-8347. Dostupné na: <https://doi.org/10.1080/10408347.2017.1332973>

- ADCA09 ANTAL, Iryna - KONERACKÁ, Martina** - KUBOVČÍKOVÁ, Martina - ZÁVIŠOVÁ, Vlasta - JURÍKOVÁ, Alena - KHMARA, Iryna - OMASTOVÁ, Mária - MIČUŠÍK, Matej - BARÁTHOVÁ, Monika - JELENSKÁ, Lenka - KAJANOVÁ, Ivana - ZAŤOVIČOVÁ, Miriam - PASTOREKOVÁ, Silvia. Targeting of carbonic anhydrase IX-positive cancer cells by glycine-coated superparamagnetic nanoparticles. In *Colloids and Surfaces B - Biointerfaces*, 2021, vol. 205, art.no. 111893, [10] p. (2020: 5.268 - IF, Q1 - JCR, 0.939 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0927-7765. Dostupné na: <https://doi.org/10.1016/j.colsurfb.2021.111893>
- ADCA10 ANTAL, Vitaliy - KAVEČANSKÝ, Viktor - KAČMARČÍK, Jozef - DIKO, Pavel. Influence of crystal growth regimes on the structure and properties of Cu-intercalated Ta_{1+y}S₂. In *Physica C. Superconductivity and its applications*, 2017, vol. 539, p. 35-39. (2016: 1.404 - IF, Q3 - JCR, 0.467 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 0921-4534. Dostupné na: <https://doi.org/10.1063/1.5001308>
- ADCA11 ANTAL, Vitaliy - VOLOCHOVÁ, Daniela - KAVEČANSKÝ, Viktor - KOVÁČ, Jozef - DIKO, Pavel. Influence of annealing in oxygen and argon on the superconducting properties of Li-doped YBCO single-grain bulks. In *Physica C. Superconductivity and its applications*, 2017, vol. 541, p. 22-29. (2016: 1.404 - IF, Q3 - JCR, 0.467 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 0921-4534. Dostupné na: <https://doi.org/10.1016/j.physc.2017.08.003>
- ADCA12 ANTAL, Vitaliy** - ZMORAYOVÁ, Katarína - RAJŇÁK, Michal - VOJTKOVA, Liudmila - HLÁSEK, T. - PLECHÁČEK, J. - DIKO, Pavel. Relationship between local microstructure and superconducting properties of commercial YBa₂Cu₃O₇-delta bulk. In *Superconductor Science and Technology*, 2020, vol. 33, no. 4, art. no. 044004. (2019: 3.067 - IF, Q2 - JCR, 0.991 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ab714f>
- ADCA13 ANTAL, Vitaliy - KAVEČANSKÝ, Viktor - VOLOCHOVÁ, Daniela - DIKO, Pavel. Thermal reactivity of YBa₂Cu₃O₇-delta with Al₂O₃ addition in air atmosphere. In *Ceramics International*, 2019, vol. 45, no. 2, p. 2866-2875. (2018: 3.450 - IF, Q1 - JCR, 0.888 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0272-8842. Dostupné na: <https://doi.org/10.1016/j.ceramint.2018.07.288>
- ADCA14 ANTONOV, N.V. - HNATÍČ, Michal - KAPUSTIN, A.S. - LUČIVJANSKÝ, Tomáš - MIŽIŠIN, Lukáš. Directed percolation process in the presence of velocity fluctuations: Effect of compressibility and finite correlation time. In *Physical Review E*, 2016, vol. 93, no. 1, art. no. 012151. (2015: 2.252 - IF, Q1 - JCR, 1.183 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.93.012151>

- ADCA15 ANTOŠOVÁ, Andrea - BEDNÁRIKOVÁ, Zuzana - KONERACKÁ, Martina - ANTAL, Iryna - MAREK, Jozef - KUBOVČÍKOVÁ, Martina - ZÁVIŠOVÁ, Vlasta - JURÍKOVÁ, Alena - GAŽOVÁ, Zuzana**. Amino Acid Functionalized Superparamagnetic Nanoparticles Inhibit Lysozyme Amyloid Fibrillization. In *Chemistry - A European Journal*, 2019, vol. 25, no. 31, p. 7501-7514. (2018: 5.160 - IF, Q1 - JCR, 1.842 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0947-6539. Dostupné na: <https://doi.org/10.1002/chem.201806262>
- ADCA16 ANTOŠOVÁ, Andrea - BEDNÁRIKOVÁ, Zuzana - KONERACKÁ, Martina - ANTAL, Iryna - ZÁVIŠOVÁ, Vlasta - KUBOVČÍKOVÁ, Martina - WU, Josephine W. - WANG, Steven S.S.** - GAŽOVÁ, Zuzana**. Destroying activity of glycine coated magnetic nanoparticles on lysozyme, alpha-lactalbumin, insulin and alpha-crystallin amyloid fibrils. In *Journal of Magnetism and Magnetic Materials*, 2019, vol. 471, p. 169-176. (2018: 2.683 - IF, Q2 - JCR, 0.680 - SJR, Q2 - SJR, Current Contents - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2018.09.096>
- ADCA17 ANTOŠOVÁ, Andrea - GANČÁR, Miroslav - BEDNÁRIKOVÁ, Zuzana - MAREK, Jozef - ZAHN, D.R.T. - DUTZ, Silvio - GAŽOVÁ, Zuzana**. Surface-modified magnetite nanoparticles affect lysozyme amyloid fibrillization. In *Biochimica et Biophysica Acta - General Subjects*, 2021, vol. 1865, no. 9, art. no. 129941. (2020: 3.770 - IF, Q2 - JCR, 1.204 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0304-4165. Dostupné na: <https://doi.org/10.1016/j.bbagen.2021.129941>
- ADCA18 AZAREVICH, A.N.** - BOGACH, A. - GLUSHKOV, V. - DEMISHEV, S.V. - KHOROSHILOV, A.L. - KRASIKOV, K.M. - VORONOV, V.V. - SHITSEVALOVA, Natalya Yu. - FILIPPOV, V. - GABÁNI, Slavomír - FLACHBART, Karol - KUZNETSOV, A. - GAVRILKIN, S. Yu. - MITSEN, K.V. - BLUNDELL, S.J. - SLUCHANKO, Nikolay E. Inhomogeneous superconductivity in $\text{Lu}_x\text{Zr}_{1-x}\text{B}_{12}$ dodecaborides with dynamic charge stripes. In *Physical Review B*, 2021, vol. 103, no. 10, art. no. 104515. (2020: 4.036 - IF, Q2 - JCR, 1.780 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.103.104515>
- ADCA19 AZAREVICH, A.N.** - BOGACH, A. - DEMISHEV, S.V. - GLUSHKOV, V. - SHITSEVALOVA, Natalya Yu. - FILIPPOV, V. - GABÁNI, Slavomír - PRISTÁŠ, Gabriel - FLACHBART, Karol - GAVRILKIN, S. Yu. - SLUCHANKO, Nikolay E. Magnetic Phase Diagram of $\text{Tm}_{0.96}\text{Yb}_{0.04}\text{B}_{12}$ Antiferromagnet with Dynamic Charge Stripes and Yb Valence Instability. In *Acta Physica Polonica A*, 2020, vol. 137, no. 5, p. 788-790. (2019: 0.579 - IF, Q4 - JCR, 0.214 - SJR, Q3 - SJR, Current Contents - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 1898-794X. Dostupné na: <https://doi.org/10.12693/APhysPolA.137.788>
- ADCA20 BABIČ, Michal - HORÁK, Daniel - MOLČAN, Matúš - TIMKO, Milan. Heat generation of surface-modified magnetic $\gamma\text{-Fe}_2\text{O}_3$ nanoparticles in applied alternating magnetic field. In *Journal of Physics D: Applied Physics*, 2017, vol. 50, no. 34, art. no. 345002. (2016: 2.588 - IF, Q2 - JCR, 1.135 - SJR, Q1 - SJR, Current

Contents - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 0022-3727.
Dostupné na: <https://doi.org/10.1088/1361-6463/aa7bcb>

- ADCA21 BAČKAI, J. - GABÁNI, Slavomír** - FLACHBART, Karol - GAŽO, Emil - KUŠNÍR, J. - ORENDÁČ, Matúš - PRISTÁŠ, Gabriel - SLUCHANKO, Nikolay E. - DUKHNENKO, A.V. - FILIPOV, V. - SHITSEVALOVA, Natalya Yu. Superconducting Phase Diagrams of LuB12 and Lu1-xZrxB12 (x = 0.45) down to 50 mK. In *Acta Physica Polonica A*, 2020, vol. 137, no. 5, p. 791-793. (2019: 0.579 - IF, Q4 - JCR, 0.214 - SJR, Q3 - SJR, Current Contents - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 1898-794X. Dostupné na: <https://doi.org/10.12693/APhysPolA.137.791>
- ADCA22 BALÁŽ, Matej** - RAJŇÁK, Michal - SHALABAYEV, Zhandos S. - ZUBRIK, Anton. Detection of iron wear in mechanochemistry using magnetometry. In *Acta Physica Polonica A*, 2020, vol. 137, no. 5, p. 684-686. (2019: 0.579 - IF, Q4 - JCR, 0.214 - SJR, Q3 - SJR, Current Contents - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 1898-794X. Dostupné na: <https://doi.org/10.12693/APhysPolA.137.684>
- ADCA23 BALÁŽ, Matej** - DANEU, Nina - RAJŇÁK, Michal - KURIMSKÝ, Juraj - HEGEDUS, Michal - DUTKOVÁ, Erika - FABIÁN, Martin - KAŇUCHOVÁ, Mária - BALÁŽ, Peter. Rapid mechanochemical synthesis of nanostructured mohite Cu2SnS3 (CTS). In *Journal of Materials Science*, 2018, vol. 53, p. 13631-13642. (2017: 2.993 - IF, Q2 - JCR, 0.807 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0022-2461. Dostupné na: <https://doi.org/10.1007/s10853-018-2499-6>
- ADCA24 BALÁŽ, Matej** - DOBROZHAN, Oleksandr - TEŠINSKÝ, Matej - ZHANG, Rui-Zhi - DŽUNDA, Róbert - DUTKOVÁ, Erika - RAJŇÁK, Michal - CHEN, Kan - REECE, Michael J. - BALÁŽ, Peter. Scalable and environmentally friendly mechanochemical synthesis of nanocrystalline rhodostannite (Cu2FeSn3S8). In *Powder Technology*, 2021, vol. 388, p. 192-200. (2020: 5.134 - IF, Q1 - JCR, 1.079 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 0032-5910. Dostupné na: <https://doi.org/10.1016/j.powtec.2021.04.047>
- ADCA25 BALÁŽ, Matej** - TEŠINSKÝ, Matej - MARQUARDT, Julien - ŠKROBIAN, Milan - DANEU, Nina - RAJŇÁK, Michal - BALÁŽ, Peter. Synthesis of copper nanoparticles from refractory sulfides using a semi-industrial mechanochemical approach. In *Advanced Powder Technology*, 2020, vol. 31, no.2, p. 782-791. (2019: 4.217 - IF, Q1 - JCR, 0.802 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0921-8831. Dostupné na: <https://doi.org/10.1016/j.appt.2019.11.032>
- ADCA26 BALÁŽ, Peter - BALÁŽ, Matej - ZORKOVSKÁ, Anna - ŠKORVÁNEK, Ivan - LUKÁČOVÁ BUJŇÁKOVÁ, Zdenka - TRAJIC, Jelena. Kinetics of Solid-State Synthesis of Quaternary Cu2FeSnS4 (Stannite) Nanocrystals for Solar Energy Applications. In *Acta Physica Polonica A*, 2017, vol. 131, p. 1153-1155. (2016: 0.469 - IF, Q4 - JCR, 0.227 - SJR, Q4 - SJR, Current Contents - CCC). (2017 -

Current Contents, WOS, SCOPUS). ISSN 1898-794X. Dostupné na:
<https://doi.org/10.12693/APhysPolA.131.1153>

ADCA27 BALÁŽ, Peter** - BALÁŽ, Matej - DUTKOVÁ, Erika - HEGEDUS, Michal - RAJŇÁK, Michal - HEJTMANEK, J. - NAVRÁTIL, Jiří - ACHIMOVICHOVÁ, Marcela - BRIANČIN, Jaroslav. Magnetization as an Effective Tool for Kinetic Evaluation in Mechanochemical Synthesis of Chalcopyrite CuFeS₂. In *Acta Physica Polonica A*, 2020, vol. 137, no. 5, p. 647-649. (2019: 0.579 - IF, Q4 - JCR, 0.214 - SJR, Q3 - SJR, Current Contents - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 1898-794X. Dostupné na:
<https://doi.org/10.12693/APhysPolA.137.647>

ADCA28 BALÁŽ, Peter - BALÁŽ, Matej - SAYAGUES, M.J. - ŠKORVÁNEK, Ivan - ZORKOVSKÁ, Anna - DUTKOVÁ, Erika - BRIANČIN, Jaroslav - KOVÁČ, Jaroslav - KOVÁČ, Jaroslav Jr. - SHPOTYUK, Yaroslav. Mechanochemical Solvent-Free Synthesis of Quaternary Semiconductor Cu-Fe-Sn-S Nanocrystals. In *Nanoscale Research Letters*, 2017, vol. 12, p. 256-265. (2016: 2.833 - IF, Q2 - JCR, 0.613 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 1556-276X. Dostupné na: <https://doi.org/10.1186/s11671-017-2029-5>

ADCA29 BALÁŽ, Peter - ZORKOVSKÁ, Anna - BALÁŽ, Matej - KOVÁČ, Jozef - TEŠINSKÝ, Matej - OSSEROV, Timur - GUSEYNOVA, Gunara - KETEGENOV, Tlek. Mechanochemical Reduction of Chalcopyrite CuFeS₂ : Changes in Composition and Magnetic Properties. In *Acta Physica Polonica A*, 2017, vol. 131, no. 4, p. 1165-1167. (2016: 0.469 - IF, Q4 - JCR, 0.227 - SJR, Q4 - SJR, Current Contents - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 1898-794X. Dostupné na: <https://doi.org/10.12693/APhysPolA.131.1165>

ADCA30 BALÁŽ, Peter - HEGEDUS, Michal** - REECE, Michael J. - ZHANG, R. Z. - SU, T. - ŠKORVÁNEK, Ivan - BRIANČIN, Jaroslav - BALÁŽ, Matej - MIHÁLIK, Matúš - TEŠINSKÝ, Matej - ACHIMOVICHOVÁ, Marcela. Mechanochemistry for Thermoelectrics: Nanobulk Cu₆Fe₂SnS₈/Cu₂FeSnS₄ Composite Synthesized in an Industrial Mill. In *Journal of Electronic Materials*, 2019, vol. 48, p. 1846-1856. (2018: 1.676 - IF, Q3 - JCR, 0.422 - SJR, Q2 - SJR, Current Contents - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0361-5235. Dostupné na:
<https://doi.org/10.1007/s11664-019-06972-7>

ADCA31 BALEJČÍKOVÁ, Lucia** - TOMAŠOVIČOVÁ, Natália - ZAKUŤANSKÁ, Katarína - BAŤKOVÁ, Marianna - KOVÁČ, Jozef - KOPČANSKÝ, Peter. Dechlorination of 2,4,40-trichlorobiphenyl by magnetoferritin with different loading factors. In *Chemosphere*, 2020, vol. 260, art. no. 127629. (2019: 5.778 - IF, Q1 - JCR, 1.530 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0045-6535. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2020.127629>

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