

## Publikácie / Publications

**Institute: SAVGEOTE - Ústav geotechniky SAV**  
**Year of publication 2016~2021**

### Statistics publication category

AAA	Scientific monographs published abroad	1
AAB	Scientific monographs published in Slovak publishing houses	1
ABC	Chapters in scientific monographs published abroad	5
ADCA	Scientific papers in foreign journals registered in Current Contents Connect with IF (impacted)	231
ADEA	Scientific papers in other foreign journals not registered in Current Contents Connect with IF (impacted)	1
ADEB	Scientific papers in other foreign journals not registered in Current Contents Connect without IF (non-impacted)	11
ADFB	Scientific papers in other domestic journals not registered in Current Contents Connect without IF (non-impacted)	2
ADMA	Scientific papers in foreign impacted journals registered in Web of Sciences or Scopus	10
ADMB	Scientific papers in foreign non-impacted journals registered in Web of Sciences or Scopus	65
ADNA	Scientific papers in domestic impacted journals registered in Web of Sciences or Scopus	1
ADNB	Scientific papers in domestic non-impacted journals registered in Web of Sciences or Scopus	9
AECA	Scientific papers in foreign peer-reviewed proceedings and shorter chapters in foreign scientific monographs or academic/university textbooks	2
AFA	Published invited papers from foreign scientific conferences	2
AFB	Published invited papers from domestic scientific conferences	4
AFC	Published papers from foreign scientific conferences	26
AFD	Published papers from domestic scientific conferences	140
AFE	Abstracts of invited papers from foreign conferences	2
AFF	Abstracts of invited papers from domestic conferences	1
AFG	Abstracts of papers from foreign conferences	89
AFH	Abstracts of papers from domestic conferences	71
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	3
BDF	Professional papers in other domestic journals (not registered in CCC)	1
BEE	Professional papers in foreign proceedings (conference/non-conference; peer-reviewed/non-peer-reviewed)	3

BEF	Professional papers in domestic proceedings (conference/non-conference; peer-reviewed/non-peer-reviewed)	1
DAI	Dissertations and habilitation theses	11
FAI	Editorial work on book publications (bibliographies, encyclopedias, catalogues, dictionaries, collective publications/proceedings, atlases ...)	12
GAI	Reports	10
GHG	Works published on the internet	2
GII	Other publications and documents which is not possible to categorize into classes/categories mentioned above	80
<b>Count</b>		<b>797</b>

### AAA Scientific monographs published abroad

AAA01 BALÁŽ, Matej. *Environmental Mechanochemistry Recycling Waste into Materials Using High-Energy Ball Milling*. Switzerland : Springer International Publishing, 2021. 700 p. Environmentalistika a ekológia. Dostupné na internete: <<https://link.springer.com/book/10.1007/978-3-030-75224-8>>. ISBN 978-3-030-75223-1

### AAB Scientific monographs published in Slovak publishing houses

AAB01 EŠTOKOVÁ, Adriana - KOVALČÍKOVÁ, Martina - LUPTÁKOVÁ, Alena. *Síranová korózia cementových kompozitov*. Rec. Števelová, N., Kaňuchová, M., Strigáč, J.,. Košice : TU Košice, 2017. 143 s. ISBN 978-80-553-2839-3

### ABC Chapters in scientific monographs published abroad

ABC01 BALÁŽ, Matej - BEDLOVIČOVÁ, Zdenka - KOVÁČOVÁ, Mária - SALAYOVÁ, Aneta - BALÁŽOVÁ, Ľudmila. Green and Bio-Mechanochemical Approach to Silver Nanoparticles Synthesis, Characterization and Antibacterial Potential. In *Nanostructures for Antimicrobial and Antibiofilm Applications*. - Springer Natura Switzerland, 2020, p. 145-183. ISBN 978-3-030-40336-2. Dostupné na: [https://doi.org/10.1007/978-3-030-40337-9\\_7](https://doi.org/10.1007/978-3-030-40337-9_7)

ABC02 DANKOVÁ, Zuzana - MOCKOVČIAKOVÁ, Annamária. Adsorption of Heavy Metals Cations on Bentonite and Bentonite/Iron Oxide Composite. Rec.: Galamboš Miachal, Martin Dano. In *Environmental Science and Engineering*. 11 section. Soil Pollution and Phytoremediation. - Houston, USA : Studium Press LLC, Houston, USA, 2017, p. 290-320. ISBN 9781-62699-088-3.

ABC03 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.

ABC04 SHPOTYUK, Oleh - LUKÁČOVÁ BUJŇÁKOVÁ, Zdenka - BALÁŽ, Peter - SHPOTYUK, Yaroslav - INGRAM, Adam. Multiparticle composites based on nanostructured arsenic sulfides As<sub>4</sub>S<sub>4</sub> in biomedical engineering. In *Materials for*

*Biomedical Engineering. Inorganic Micro- and Nanostructures..* - Elsevier, 2019, p. 119-151. ISBN 978-0-08-102814-8. Dostupné na:  
<https://doi.org/10.1016/B978-0-08-102814-8.00005-6>

ABC05 TOMINA, Veronika - FURTAT, Iryna - STOLYARCHUK, Nataliya - ZUB, Yuriy - KAŇUCHOVÁ, Mária - VÁCLAVÍKOVÁ, Miroslava - MELNYK, Inna. Surface and structure design of aminosilica nanoparticles for multifunctional applications: adsorption and antimicrobial studies. In *Biocompatible Hybrid Oxide Nanoparticles for Human Health*. - Eastbourne, UK : Elsevier, 2019, p. 15-31. ISBN 978-0-12-815875-3.

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

ADCA01 ACHIMOVIČOVÁ, Marcela\*\* - DANEU, Nina - TÓTHOVÁ, Erika - MAZAJ, Majtaž - DUTKOVÁ, Erika. Combined mechanochemical/thermal annealing approach for the synthesis of Co<sub>9</sub>Se<sub>8</sub> with potential optical properties. In *Applied Physics A: Materials Science & Processing*, 2019, vol. 125, no. 8, p. 7. (2018: 1.784 - IF, Q3 - JCR, 0.421 - SJR, Q2 - SJR, Current Contents - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0947-8396. Dostupné na:  
<https://doi.org/10.1007/s00339-018-2305-y>

ADCA02 ACHIMOVIČOVÁ, Marcela\*\* - BALÁŽ, Matej - GIRMAN, Vladimír - KURIMSKÝ, Juraj - BRIANČIN, Jaroslav - DUTKOVÁ, Erika - GÁBOROVÁ, Katarína. Comparative Study of Nanostructured CuSe Semiconductor Synthesized in a Planetary and Vibratory Mill. In *Nanomaterials-Basel*, 2020, vol.10, no. 11, p.2038, 1-13. (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/nano10102038>

ADCA03 ACHIMOVIČOVÁ, Marcela - DANEU, Nina - DUTKOVÁ, Erika - ZORKOVSKÁ, Anna. Mechanochemically synthesized cobalt monoselenide: structural characterization and optical properties. In *Applied Physics A: Materials Science & Processing*, 2017, vol. 123, no. 3, p. 154. (2016: 1.455 - IF, Q3 - JCR, 0.508 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0947-8396. Dostupné na: <https://doi.org/10.1007/s00339-017-0785-9>

ADCA04 ACHIMOVIČOVÁ, Marcela\*\* - TÓTHOVÁ, Erika - DANEU, Nina - DUTKOVÁ, Erika - ZUBRIK, Anton - FABIÁN, Martin. Simple preparation and properties of surface-modified mechanochemically synthesised copper sulphide semiconductor. In *Materials Science and Technology*, 2020, vol. 36, no. 12, p. 1257-1262. (2019: 1.835 - IF, Q2 - JCR, 0.723 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0267-0836. Dostupné na:  
<https://doi.org/10.1080/02670836.2020.1771839>

ADCA05 ACHIMOVIČOVÁ, Marcela\*\* - DUTKOVÁ, Erika - TÓTHOVÁ, Erika - LUKÁČOVÁ BUJŇÁKOVÁ, Zdenka - BRIANČIN, Jaroslav - KITAZONO, Satoshi. Structural and optical properties of nanostructured copper sulphide semiconductor synthesized in an industrial mill. In *Frontiers of Chemical Science and Engineering*, 2019, vol. 13, no. 1, p. 194-170. (2018: 2.809 - IF, Q2 - JCR,

0.688 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 2095-0179. Dostupné na: <https://doi.org/10.1007/s11705-018-1755-2>

- ADCA06 BALÁŽ, Matej\*\*. Ball milling of eggshell waste as a green and sustainable approach: A review. In *Advances in colloid and interface science*, 2018, vol. 256, p. 256-275. (2017: 7.346 - IF, Q1 - JCR, 1.977 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0001-8686. Dostupné na: <https://doi.org/10.1016/j.cis.2018.04.001>
- ADCA07 BALÁŽ, Matej - GOGA, Michal - HEGEDUS, Michal - DANEU, Nina - KOVÁČOVÁ, Mária - TKÁČIKOVÁ, Ľudmila - BALÁŽOVÁ, Ľudmila - BAČKOR, Martin. Biomechanochemical Solid-State Synthesis of Silver Nanoparticles with Antibacterial Activity Using Lichens. In *ACS Sustainable Chemistry & Engineering*, 2020, vol. 8, no.37, p. 13945-13955. (2019: 7.632 - IF, Q1 - JCR, 1.766 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 2168-0485. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c03211>
- ADCA08 BALÁŽ, Matej - DANEU, Nina - BALÁŽOVÁ, Ľudmila - DUTKOVÁ, Erika - TKÁČIKOVÁ, Ľudmila - BRIANČIN, Jaroslav - VARGOVÁ, Mária M. - BALÁŽOVÁ, Miriama - ZORKOVSKÁ, Anna - BALÁŽ, Peter. Bio-mechanochemical synthesis of silver nanoparticles with antibacterial activity. In *Advanced Powder Technology*, 2017, vol. 28, p. 3307-3312. (2016: 2.659 - IF, Q2 - JCR, 0.705 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0921-8831. Dostupné na: <https://doi.org/10.1016/j.apr.2017.09.028>
- ADCA09 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>
- ADCA10 BALÁŽ, Matej - FICERIOVÁ, Jana - BRIANČIN, Jaroslav. Influence of milling on the adsorption ability of eggshell waste. In *Chemosphere*, 2016, vol. 146, p. 458-471. (2015: 3.698 - IF, Q1 - JCR, 1.497 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0045-6535. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2015.12.002>
- ADCA11 BALÁŽ, Matej\*\* - BEDLOVIČOVÁ, Zdenka - DANEU, Nina - SIKSA, Patrik - SOKOLI, Libor - TKÁČIKOVÁ, Ľudmila - SALAYOVÁ, Aneta - DŽUNDA, Róbert - KOVÁČOVÁ, Mária - BUREŠ, Radovan - LUKÁČOVÁ BUJŇÁKOVÁ, Zdenka. Mechanochemistry as an Alternative Method of Green Synthesis of Silver Nanoparticles with Antibacterial Activity: A Comparative Study. In *Nanomaterials-Basel*, 2021, vol. 11, art. ID 1139. (2020: 5.076 - IF, Q1 - JCR, 0.919 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 2079-4991. Dostupné na: <https://doi.org/10.3390/nano11051139>
- ADCA12 BALÁŽ, Matej\*\* - KUDLIČKOVÁ, Zuzana - VILKOVÁ, Mária - IMRICH, Ján - BALÁŽOVÁ, Ľudmila - DANEU, Nina. Mechanochemical Synthesis and

Isomerization of N-Substituted Indole-3-carboxaldehyde Oximes. In *Molecules*, 2019, vol. 24, no. 18, art. no. 3347. (2018: 3.060 - IF, Q2 - JCR, 0.757 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules24183347>

ADCA13 BALÁŽ, Matej - ZORKOVSKÁ, Anna - BLAZQUEZ, Javier S. - DANEU, Nina - BALÁŽ, Peter. Mechanochemistry of copper sulphides: phase interchanges during milling. In *Journal of Materials Science*, 2017, vol. 52, no. 20, p. 11947-11961. (2016: 2.599 - IF, Q2 - JCR, 0.769 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0022-2461. Dostupné na: <https://doi.org/10.1007/s10853-017-1189-0>

ADCA14 BALÁŽ, Matej\*\* - ACHIMOVIČOVÁ, Marcela - BALÁŽ, Peter - DUTKOVÁ, Erika - FABIÁN, Martin - KOVÁČOVÁ, Mária - LUKÁČOVÁ BUJŇÁKOVÁ, Zdenka - TÓTHOVÁ, Erika. Mechanochemistry as a versatile and scalable tool for nanomaterials synthesis: Recent achievements in Košice, Slovakia. In *Current Opinion in Green and Sustainable Chemistry*, 2020, vol. 24, p. 7-13. (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.cogsc.2019.12.007>

ADCA15 BALÁŽ, Matej\*\* - DUTKOVÁ, Erika - LUKÁČOVÁ BUJŇÁKOVÁ, Zdenka - TÓTHOVÁ, Erika - KOSTOVA, Nina G. - KARAKIROVA, Yordanka - BRIANČIN, Jaroslav - KAŇUCHOVÁ, Mária. Mechanochemistry of copper sulfides: Characterization, surface oxidation and photocatalytic activity. In *Journal of Alloys and Compounds*, 2018, vol. 746, p. 576-582. (2017: 3.779 - IF, Q1 - JCR, 1.020 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2018.02.283>

ADCA16 BALÁŽ, Matej - BALÁŽOVÁ, Ľudmila - DANEU, Nina - DUTKOVÁ, Erika - BALÁŽOVÁ, Miriama - LUKÁČOVÁ BUJŇÁKOVÁ, Zdenka - SHPOTYUK, Yaroslav. Plant-Mediated Synthesis of Silver Nanoparticles and Their Stabilization by Wet Stirred Media Milling. In *Nanoscale Research Letters*, 2017, vol. 12, p. 83-91. (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/s11671-017-1860-z>

ADCA17 BALÁŽ, Matej\*\* - DANEU, Nina - RAJŇÁK, Michal - KURIMSKÝ, Juraj - HEGEDUS, Michal - DUTKOVÁ, Erika - FABIÁN, Martin - KAŇUCHOVÁ, Mária - BALÁŽ, Peter. Rapid mechanochemical synthesis of nanostructured mohite Cu<sub>2</sub>SnS<sub>3</sub> (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>

ADCA18 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

(Cu<sub>2</sub>FeSn<sub>3</sub>S<sub>8</sub>). 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>

- ADCA19     BALÁŽ, Matej\*\* - LUKÁČOVÁ BUJŇÁKOVÁ, Zdenka - ACHIMOVIČOVÁ, Marcela - TEŠINSKÝ, Matej - BALÁŽ, Peter. Simultaneous valorization of polyvinyl chloride and eggshell wastes by a semi-industrial mechanochemical approach. In *Environmental Research*, 2019, vol. 170, p. 332-336. (2018: 5.026 - IF, Q1 - JCR, 1.567 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0013-9351. Dostupné na: <https://doi.org/10.1016/j.envres.2018.12.005>
- ADCA20     BALÁŽ, Matej\*\* - BOLDYREVA, Elena - RYBIN, Dmitry - PAVLOVIČ, Stefan J. - RODRIGUEZ-PADRÓN, Daily G. - MUDRINIČ, Tihana - LUQUE, Rafael. State-of-the-Art of Eggshell Waste in Materials Science: Recent Advances in Catalysis, Pharmaceutical Applications, and Mechanochemistry. In *Frontiers in Bioengineering and Biotechnology*, 2021, vol. 8, art. no. 612567. (2020: 5.890 - IF, Q1 - JCR, 1.081 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 2296-4185. Dostupné na: <https://doi.org/10.3389/fbioe.2020.612567>
- ADCA21     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.apr.2019.11.032>
- ADCA22     BALÁŽ, Matej\*\* - BALÁŽOVÁ, Ľudmila - KOVÁČOVÁ, Mária - DANEU, Nina - SALAYOVÁ, Aneta - BEDLOVIČOVÁ, Zdenka - TKÁČIKOVÁ, Ľudmila. The relationship between precursor concentration and antibacterial activity of biosynthesized Ag nanoparticles. In *Advances in Nano Research*, 2019, vol. 7, no. 2, p. 125-134. (2018: 2.109 - IF, Q3 - JCR, 0.242 - SJR, Q3 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 2287-237X. Dostupné na: <https://doi.org/10.12989/anr.2019.7.2.125>
- ADCA23     BALÁŽ, Matej - ZORKOVSKÁ, Anna - URAKAEV, Farit - BALÁŽ, Peter - BRIANČIN, Jaroslav - LUKÁČOVÁ BUJŇÁKOVÁ, Zdenka - ACHIMOVIČOVÁ, Marcela - GOCK, Eberhard. Ultrafast mechanochemical synthesis of copper sulfides. In *RSC Advances*, 2016, vol. 6, no. 91, p. 87836-87842. (2015: 3.289 - IF, Q2 - JCR, 0.947 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 2046-2069. Dostupné na: <https://doi.org/10.1039/c6ra20588g>
- ADCA24     BALÁŽ, Peter - GUILMEAU, Emanuel - ACHIMOVIČOVÁ, Marcela\*\* - BALÁŽ, Matej - DOBROZHAN, Oleksandr - KAŇUCHOVÁ, Mária. Bismuth Dopping in Nanostructured Tetrahedrite : Scalable Synthesis and Thermoelectric Performance. In *Nanomaterials-Basel*, 2021, vol. 11, art. no. 1386. (2020: 5.076 - IF, Q1 - JCR, 0.919 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current

Contents, WOS, SCOPUS). ISSN 2079-4991. Dostupné na:  
<https://doi.org/10.3390/nano11061386>

- ADCA25 BALÁŽ, Peter - BALÁŽ, Matej - DUTKOVÁ, Erika - ZORKOVSKÁ, Anna - KOVÁČ, Jaroslav - HRONEC, P. - KOVÁČ, Jaroslav Jr. - ČAPLOVIČOVÁ, Mária - MOJŽIŠ, Ján - MOJŽIŠOVÁ, Gabriela - ELIYAS, Alexander - KOSTOVA, Nina G. CdS/ZnS nanocomposites: from mechanochemical synthesis to cytotoxicity issues. In *Materials Science and Engineering C: Materials for Biological Applications*, 2016, vol. 58, p. 1016-1033. (2015: 3.420 - IF, Q2 - JCR, 1.426 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0928-4931. Dostupné na: <https://doi.org/10.1016/j.msec.2015.09.040>
- ADCA26 BALÁŽ, Peter - DUTKOVÁ, Erika\*\* - LEVINSKÝ, P. - DANEU, Nina - KUBÍČKOVÁ, L. - KNIŽEK, K. - BALÁŽ, Matej - NAVRÁTIL, Jiří - KAŠPAROVÁ, Jana - KSENOFONTOV, Vadim - MÖLLER, Angela - HEJTMANEK, J. Enhanced thermoelectric performance of chalcopyrite nanocomposite via co-milling of synthetic and natural minerals. In *Materials Letters*, 2020, vol. 275, art. no 128107. (2019: 3.204 - IF, Q2 - JCR, 0.753 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0167-577X. Dostupné na: <https://doi.org/10.1016/j.matlet.2020.128107>
- ADCA27 BALÁŽ, Peter - BALÁŽ, Matej - SAYAGUES, M.J. - ELIAS, Alexander - KOSTOVA, Nina G. - KAŇUCHOVÁ, Mária - DUTKOVÁ, Erika. Chalcogenide Quaternary Cu<sub>2</sub>FeSnS<sub>4</sub> Nanocrystals for Solar Cells: Explosive Character of Mechanochemical Synthesis and Environmental Challenge. In *Crystals*, 2017, vol. 7, p. 367, 1-2. (2016: 1.566 - IF, Q3 - JCR, 0.544 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 2073-4352. Dostupné na: <https://doi.org/10.3390/cryst7120367>
- ADCA28 BALÁŽ, Peter - BALÁŽ, Matej - ACHIMOVÍČOVÁ, Marcela - LUKÁČOVÁ BUJŇÁKOVÁ, Zdenka - DUTKOVÁ, Erika. Chalcogenide mechanochemistry in materials science : insight into synthesis and applications ( a review ). In *Journal of Materials Science*, 2017, vol. 52, p. 11851-11890. (2016: 2.599 - IF, Q2 - JCR, 0.769 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0022-2461. Dostupné na: <https://doi.org/10.1007/s10853-017-1174-7>
- ADCA29 BALÁŽ, Peter - BALÁŽ, Matej - ZORKOVSKÁ, Anna - ŠKORVÁNEK, Ivan - LUKÁČOVÁ BUJŇÁKOVÁ, Zdenka - TRAJIC, Jelena. Kinetics of Solid-State Synthesis of Quaternary Cu<sub>2</sub>FeSnS<sub>4</sub> (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>
- ADCA30 BALÁŽ, Peter\*\* - BALÁŽ, Matej - DUTKOVÁ, Erika - HEGEDUS, Michal - RAJŇÁK, Michal - HEJTMANEK, J. - NAVRÁTIL, Jiří - ACHIMOVÍČOVÁ, Marcela - BRIANČIN, Jaroslav. Magnetization as an Effective Tool for Kinetic Evaluation in Mechanochemical Synthesis of Chalcopyrite CuFeS<sub>2</sub>. 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:  
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- ADMA10 ŠIMONOVÍČOVÁ, Alexandra - KUPKA, Daniel - NOSALJ, Sanja - KRAKOVÁ, Lucia - DRAHOVSKÁ, H. - BÁRTOVÁ, Zuzana - VOJTKOVÁ, Hana - BOTUROVÁ, Kateřina - PANGALLO, Domenico\*\*. Differences in metabolites production using the Biolog FF Microplate™ system with an emphasis on some organic acids of *Aspergillus niger* wild type strains. In *Biologia*, 2020, vol. 75, no. 10, p. 1537-1546. (2019: 0.811 - IF, Q4 - JCR, 0.265 - SJR, Q3 - SJR, Current Contents - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0006-3088. Dostupné na: <https://doi.org/10.2478/s11756-020-00521-y>

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