

Publikácie / Publications

Department: SAVEXFYZ - Ústav experimentálnej fyziky SAV
Year of publication 2012~2015

Statistics publication category

ABC	Chapters in scientific monographs published abroad	9
ABD	Chapters in scientific monographs published in Slovak publishing houses	1
ADCA	Scientific papers in foreign journals registered in Current Contents Connect with IF (impacted)	343
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)	13
ADFB	Scientific papers in other domestic journals not registered in Current Contents Connect without IF (non-impacted)	6
ADMA	Scientific papers in foreign impacted journals registered in Web of Sciences or Scopus	16
ADMB	Scientific papers in foreign non-impacted journals registered in Web of Sciences or Scopus	41
ADNA	Scientific papers in domestic impacted journals registered in Web of Sciences or Scopus	2
AECA	Scientific papers in foreign peer-reviewed proceedings and shorter chapters in foreign scientific monographs or academic/university textbooks	2
AED	Scientific papers in domestic peer-reviewed proceedings, monographs	4
AEDA	Scientific papers in domestic peer-reviewed proceedings and shorter chapters in domestic scientific monographs or academic/university textbooks	6
AEGA	Abstracts of scientific papers published in foreign impacted journals registered in Current Contents Connect	1
AFA	Published invited papers from foreign scientific conferences	55
AFB	Published invited papers from domestic scientific conferences	4
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AFDA	Published papers from international scientific conferences in Slovakia	23
AFDB	Published papers from domestic scientific conferences	18
AFE	Abstracts of invited papers from foreign conferences	1
AFF	Abstracts of invited papers from domestic conferences	1
AFFB	Abstracts of invited papers from domestic conferences	3

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AFH	Abstracts of papers from domestic conferences	5
AFHA	Abstracts of papers from international conferences in Slovakia	4
AFHB	Abstracts of papers from domestic conferences	4
AFK	Foreign conferences posters	4
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
BEF	Professional papers in domestic proceedings (conference/non-conference; peer-reviewed/non-peer-reviewed)	1
BFBA	Abstracts of scientific papers from international action in Slovakia	18
FAI	Editorial work on book publications (bibliographies, encyclopedias, catalogues, dictionaries, collective publications/proceedings, atlases ...)	10
GII	Other publications and documents which is not possible to categorize into classes/categories mentioned above	3
Count		661

ABC Chapters in scientific monographs published abroad

- ABC01 DIKO, Pavel - VOLOCHOVÁ, Daniela - PIOVARČI, Samuel - ANTAL, Vitaliy - RADUŠOVSKÁ, Monika. Growth of Bulk Superconductors in Y1.5Ba2Cu3Ox System with CeO2 Addition. In *Superconductivity: Applications Today and Tomorrow*. - Nova Science Pub Inc, 2015, chapter 2. ISBN 978-163483-756-9.
- ABC02 KUDELA, Karel. Variability of Low Energy Cosmic Rays Near Earth. In *Exploring the Solar Wind*. - Croatia : InTech, 2012, chapter 13, p. 285-314. ISBN 978-953-51-0339-4.
- ABC03 LAZUTIN, Leonid L. - KUDELA, Karel. The Space Object of Magnetoplasma: Magnetosphere of Earth. In *Interstellar Medium: New Research*. - Nova Science Publishers, 2012, chapter 8, p. 159-196. ISBN 978-1-61470-807-0.
- ABC04 PETRENKO, Viktor I. - BULAVIN, Leonid A. - AVDEEV, Mikhail V. - KOPČANSKÝ, Peter. Structure diagnostics of biorelevant associates and complexes in liquid nanosystems by small-angle scattering. In *Nanobiophysics : Fundamentals and Applications*. - Singapore : Pan Stanford, 2015, chapter 5, p. 129-161. ISBN 9789814613965.
- ABC05 PINČÁK, Richard - PUDLÁK, Michal - SMOTLACHA, Ján. Electronic properties of single and double wall carbon nanotubes. In *Carbon Nanotubes : Synthesis and Properties*. - New York : Nova Science Publishers, Inc., 2012, chapter 10, p. 201-226. ISBN 978-1-62081-914-2.

ABC06 PINČÁK, Richard. With Strings Toward Safety Future on Financial Markets. In *Financial Markets : Recent Developments, Emerging Practices and Future Prospects* [elektronický zdroj]. - New York : Nova Publishers, 2014, chapter 6, p. 105-135. Názov z obrazovky. Dostupné na internete: <https://www.novapublishers.com/catalog/product_info.php?products_id=46503&osCsid=cfde2636167e44d2863bb9ce7154d020>.

ABC07 ŠEFČIKOVÁ, Martina - PIOVARČI, Samuel - RADUŠOVSKÁ, Monika - ANTAL, Vitaliy - DIKO, Pavel. The Influence of Y211 Milling Conditions on the Microstructure of Y123/Y211 Bulk Superconductors. In *Superconductors and Superconductivity*. - 2015, p. 48-51.

ABC08 TOMAŠOVIČOVÁ, Natália - KOPČANSKÝ, Peter - ÉBER, Nándor. Magnetically active anisotropic fluids based on liquid crystals. In *Anisotropy Research : new Developments*. - New York : Nova Science Publishers, 2012, chapter 11, p. 245-275. ISBN 978-1-62081-977-7.

ABC09 ZMORAYOVÁ, Katarína - PIOVARČI, Samuel - RADUŠOVSKÁ, Monika - ANTAL, Vitaliy - DIKO, Pavel. Influence of BaCeO₃ and BaO₂ Addition on the Microstructure of Y-123/Y-211 Bulk Superconductors. In *Superconductors and Superconductivity*. - 2015, p. 104-107.

ABD Chapters in scientific monographs published in Slovak publishing houses

ABD01 MÚČKOVÁ, Marta - BEDNÁRIKOVÁ, Monika - BARTOŠ, P. - KONERACKÁ, Martina - ZÁVIŠOVÁ, Vlasta - TOMAŠOVIČOVÁ, Natália - JURÍKOVÁ, Alena - KOPČANSKÝ, Peter - TIMKO, Milan - FABIÁN, Martin - LANCZ, Gábor. Taxol loaded polymer nanospheres for magnetic drug targeting - in vitro studies. In *Transformation of knowledge and technologies to the praxis obtained by research and development in the earth resources area*. - Bratislava : Slovak Physical society, 2013, chapter 3, p. 74-94. ISBN 978-80-970625-6-9.

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

ADCA01 ADAM, J. - ADAMOVÁ, D. - AGGARWAL, M.M. - AGLIERI RINELLA, G. - AGNELLO, M. - KALIŇÁK, Peter - KRÁLIK, Ivan - KRIVDA, Marián - MUŠINSKÝ, Ján - ŠÁNDOR, Ladislav - VALA, Martin. Precision measurement of the mass difference between light nuclei and anti-nuclei. In *Nature Physics*, 2015, vol. 11, no. 10, p. 811-814. (20.147 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 1745-2473.

ADCA02 ADAMS, J.H. Jr. - BOBÍK, Pavol - KUDELA, Karel - PASTIRČÁK, Blahoslav. An evaluation of the exposure in nadir observation of the JEM-EUSO mission. In *Astroparticle Physics*, 2013, vol. 44, p. 76-90. (4.777 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0927-6505.

ADCA03 ADZHEMYAN, L. Ts. - HNATÍČ, Michal - KOMPANIETS, M.V. Principle of maximal randomness and parity violation in turbulence. In *Theoretical and Mathematical Physics*, 2013, vol. 176, no. 1, p. 835-842. (0.669 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0040-5779.

- ADCA04 AHLSTROM, S.L. - BRADLEY, D.I. - ČLOVEČKO, Marcel - FISHER, S.N. - GUÉNAULT, A.M. - GUISE, E. - HALEY, R.P. - KUMAR, M. - MCCLINTOCK, P.V.E. - PICKETT, G.R. - POLTURAK, E. - POOLE, M. - TODOSHCHENKO, I. - TSEPELIN, V. - WOODS, A.J. Plastic Properties of Solid ^4He Probed by a Moving Wire: Viscoelastic and Stochastic Behavior Under High Stress. In *Journal of Low Temperature Physics*, 2014, vol. 175, no. 1-2, p. 147-153. (1.036 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0022-2291.
- ADCA05 AHLSTROM, S.L. - BRADLEY, D.I. - ČLOVEČKO, Marcel - FISHER, S.N. - GUÉNAULT, A.M. - GUISE, E. - HALEY, R.P. - KOLOSOV, O. - KUMAR, M. - MCCLINTOCK, P.V.E. - PICKETT, G.R. - POLTURAK, E. - POOLE, M. - TODOSHCHENKO, I. - TSEPELIN, V. - WOODS, A.J. Response of a Mechanical Oscillator in Solid ^4He . In *Journal of Low Temperature Physics*, 2014, vol. 175, no. 1-2, p. 140-146. (1.036 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0022-2291.
- ADCA06 AKDUMAN, Begüm - UYGUN, Murat - UYGUN, Deniz Aktas - ANTALÍK, Marián. Fe_3O_4 magnetic core coated by silver and functionalized with N-acetyl cysteine as novel nanoparticles in ferritin adsorption. In *Journal of Nanoparticle Research*, 2013, vol. 15, no. 4, art. no. 1564. (2.175 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 1388-0764.
- ADCA07 ALQAT, Aboalqasim - GEBREL, Zohra - KUSIGERSKI, Vladan - SPASOJEVIC, Vojislav - MIHALÍK, Marián - MIHÁLIK, Matúš - BLANUSA, Jovan. Synthesis of hexagonal YMnO_3 from precursor obtained by the glycine-nitrate process. In *Ceramics International*, 2013, vol. 39, no. 3, p. 3183-3188. (1.789 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0272-8842.
- ADCA08 ÁLVAREZ-ALONSO, Pablo - GORRIA, Pedro - SÁNCHEZ LLAMAZARES, José L. - GARBARINO, Gastón - REIFFERS, Marián - BLANCO, Jesús A. Exploring the magneto-volume anomalies in $\text{Dy}_2\text{Fe}_{17}$ with unconventional rhombohedral crystal structure. In *Acta Materialia*, 2013, vol. 61, no. 20, p. 7931-7937. (3.941 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 1359-6454.
- ADCA09 ANISIMOV, M.A. - BOGACH, A. - GLUSHKOV, V. - DEMISHEV, S.V. - SAMARIN, N.A. - GAVRILKIN, S. Yu. - MITSSEN, K.V. - SHITSEVALOVA, N.Yu. - LEVCHENKO, A.V. - FILIPPOV, V.B. - GABÁNI, Slavomír - FLACHBART, Karol - SLUCHANKO, N.E. Defect Mode in LaB_6 . In *Acta Physica Polonica A*, 2014, vol. 126, no. 1, p. 350-351. (0.604 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 1898-794X.
- ADCA10 ANISIMOV, M.A. - BOGACH, A. - GLUSHKOV, V. - DEMISHEV, S.V. - SAMARIN, N.A. - SHITSEVALOVA, N.Yu. - LEVCHENKO, A.V. - FILIPPOV, V.B. - KUZNETSOV, A. - FLACHBART, Karol - SLUCHANKO, N.E. Hall Effect in Gd_2B_6 . In *Acta Physica Polonica A*, 2014, vol. 126, no. 1, p. 348-349. (0.604 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 1898-794X.

- ADCA11 ANISIMOV, M.A. - GLUSHKOV, V.V. - BOGACH, A.V. - DEMISHEV, S.V. - SAMARIN, N.A. - GAVRILKIN, S. Yu. - MITSSEN, K.V. - SHITSEVALOVA, N.Yu. - LEVCHENKO, A.V. - FILIPPOV, V.B. - GABÁNI, Slavomír - FLACHBART, Karol - SLUCHANKO, N.E. Specific Heat of CexLa1 – xB6 in the Low Cerium Concentration Limit ($x \leq 0.03$)¹. In *Journal of Experimental and Theoretical Physics*, 2013, vol. 116, no.5, p. 760-765. (0.921 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 1063-7761.
- ADCA12 ANTAL, Iryna - KUBOVČÍKOVÁ, Martina - ZÁVIŠOVÁ, Vlasta - KONERACKÁ, Martina - PECHANOVÁ, O. - BARTA, Andrej - CEBOVÁ, Martina - ANTAL, Vitaliy - DIKO, Pavel - ZDURIENČÍKOVÁ, Martina - PUDLÁK, Michal - KOPČANSKÝ, Peter. Magnetic poly(D,L-lactide) nanoparticles loaded with aliskiren: a promising tool for hypertension treatment. In *Journal of Magnetism and Magnetic Materials*, 2015, vol. 380, p. 280-284. (1.970 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0304-8853.
- ADCA13 ANTOŇÁK, Marek - MIHALIK, Marián - ZENTKOVÁ, Mária - MIHÁLIK, Matúš - VAVRA, Martin - LAZÚROVÁ, Jana - FITTA, Magdalena - BALANDA, Maria. Magnetic Properties of La_{0.85}Ag_{0.15}MnO₃ Nano-Powders. In *Acta Physica Polonica A*, 2014, vol. 126, no. 1, p. 296-297. (0.604 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 1898-794X.
- ADCA14 ANTOŠOVÁ, Andrea - GAŽOVÁ, Zuzana - FEDUNOVÁ, Diana - VALUŠOVÁ, Eva - BYSTRENOVÁ, Eva - VALLE, Francesco - DAXNEROVÁ, Z. - BISCARINI, Fabio - ANTALÍK, Marián. Anti-amyloidogenic activity of glutathione-covered gold nanoparticles. In *Materials Science and Engineering C*, 2012, vol. 32, no. 8, p. 2529-2535. (2.686 - IF2011). (2012 - Current Contents, WOS, SCOPUS). ISSN 0928-4931.
- ADCA15 AVDEEV, Mikhail V. - PETRENKO, Viktor I. - GAPON, I.V. - BULAVIN, Leonid A. - VOROBIEV, A.A. - SOLTWEDEL, O. - BALASOIU, M. - VÉKÁS, Ladislau - ZÁVIŠOVÁ, Vlasta - KOPČANSKÝ, Peter. Comparative structure analysis of magnetic fluids at interface with silicon by neutron reflectometry. In *Applied Surface Science*, 2015, vol. 352, p. 49-53. (2.711 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0169-4332.
- ADCA16 AVDEEV, Mikhail V. - AKSENOV, Victor L. - GAŽOVÁ, Zuzana - ALMÁSY, László - PETRENKO, Viktor I. - GOJZEWSKI, Hubert - FEOPTYSOV, A. - ŠIPOŠOVÁ, Katarína - ANTOŠOVÁ, Andrea - TIMKO, Milan - KOPČANSKÝ, Peter. On the determination of the helical structure parameters of amyloid protofilaments by small-angle neutron scattering and atomic force microscopy. In *Journal of Applied Crystallography*, 2013, vol. 46, no. 1, p. 224-233. (3.343 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0021-8898.
- ADCA17 BALÁŽ, Ján - GLADYSHEV, A.V. - KUDELA, Karel - PETRUKOVICH, A.A. - SARRIS, E.T. - SARRIS, T. - SLIVKA, Marián - STRHÁRSKY, Igor. Energetic Particle Measurements Onboard Spectr-R with MEP-21. In *Cosmic Research*, 2013, vol. 51, no. 2, p. 90-95. (0.244 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0010-9525.

- ADCA18 MELNÍKOVÁ, Lucia - PETRENKO, Viktor I. - AVDEEV, Mikhail V. - GARAMUS, Vasil M. - ALMÁSY, László - IVANKOV, O.I. - BULAVIN, Leonid A. - MITRÓOVÁ, Zuzana - KOPČANSKÝ, Peter. Effect of iron oxide loading on magnetoferritin structure in solution as revealed by SAXS and SANS. In *Colloids and Surfaces B - Biointerfaces*, 2014, vol. 123, p. 82-88. (4.287 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0927-7765.
- ADCA19 MELNÍKOVÁ, Lucia - ŠAFAŘÍK, I. - POSPÍŠKOVÁ, Kristýna - KORALEWSKI, M. - MITRÓOVÁ, Zuzana - KOPČANSKÝ, Peter. Magnetoferitín a jeho potenciálne bioaplikácie. In *Chemické Listy*, 2015, vol. 109, no. 9, p. 673-678. (0.272 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0009-2770.
- ADCA20 MELNÍKOVÁ, Lucia - POSPISKOVA, Kristyna - MITRÓOVÁ, Zuzana - KOPČANSKÝ, Peter - ŠAFAŘÍK, I. Peroxidase-like activity of magnetoferritin. In *Microchimica Acta*, 2014, vol. 181, no. 3-4, p. 295-301. (3.719 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0026-3672.
- ADCA21 MELNÍKOVÁ, Lucia - PETRENKO, Viktor I. - AVDEEV, Mikhail V. - IVANKOV, Oleksandr I. - BULAVIN, Leonid A. - GARAMUS, Vasil M. - ALMÁSY, László - MITRÓOVÁ, Zuzana - KOPČANSKÝ, Peter. SANS contrast variation study of magnetoferritin structure at various iron loading. In *Journal of Magnetism and Magnetic Materials*, 2015, vol. 377, p. 77-80. (1.970 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0304-8853.
- ADCA22 MELNÍKOVÁ, Lucia - MITRÓOVÁ, Zuzana - TIMKO, Milan - KOVÁČ, Jozef - AVDEEV, Mikhail V. - PETRENKO, Viktor I. - GARAMUS, Vasil M. - ALMÁSY, László - KOPČANSKÝ, Peter. Structural characterization of magnetoferritin. In *Mendeleev communications*, 2014, vol. 24, no. 2, p. 80-81. (1.154 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0959-9436.
- ADCA23 BARANETS, N.V. - RUZHIN, Yuri - EROKHIN, Nikolai - AFONIN, V.V. - VOJTA, Jaroslav - ŠMILAUER, Ja. - KUDELA, Karel - MATIŠIN, Ján - CIOBANU, Mircea. Acceleration of energetic particles by whistler waves in active space experiment with charged particle beams injection. In *Advances in Space Research*, 2012, vol. 49, no. 5, p. 859-871. (1.178 - IF2011). (2012 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0273-1177.
- ADCA24 BARANOVÁ, L. - TARASENKO, R. - ORENDÁČOVÁ, Alžbeta - ORENDÁČ, Martin - PAVLÍK, Vladimír - FEHER, Alexander. Experimental Study of the Magnetocaloric Effect in the Two-Dimensional Quantum System Cu(tn)Cl₂. In *Acta Physica Polonica A*, 2014, vol. 126, no. 1, p. 256-257. (0.604 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 1898-794X.
- ADCA25 BAŤKO, Ivan - BAŤKOVÁ, Marianna. AFM-utilizing approach to search for new oxide materials for perspective applications in memristive devices. In *European Physical Journal - Applied Physics*, 2012, vol. 58, no. 2, art. no. 20102. (0.771 - IF2011). (2012 - Current Contents, WOS, SCOPUS). ISSN 1286-0042.
- ADCA26 BAŤKO, Ivan - BAŤKOVÁ, Marianna - LOFAJ, František. Electrical Resistivity of CrN Thin Films. In *Acta Physica Polonica A*, 2014, vol. 126, no. 1, p.

415-416. (0.604 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 1898-794X.

ADCA27 BAŤKO, Ivan - BAŤKOVÁ, Marianna - TRAN, V.H. - KEIDERLING, U. - FILIPOV, V.B. Evidence for magnetic phase separation in colossal magnetoresistance compound EuB₅.99C₀.01. In *Solid State Communications*, 2014, vol. 190, p. 23-27. (1.698 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0038-1098.

ADCA28 BAŤKO, Ivan - BAŤKOVÁ, Marianna. SmB₆: Topological insulator or semiconductor with valence-fluctuation induced hopping transport? In *Solid State Communications*, 2014, vol. 196, p. 18-23. (1.698 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0038-1098.

ADCA29 BILANYCH, V.S. - ONYSHCHAK, V.B. - RIZAK, I.M. - CSACH, Kornel - FLACHBART, Karol - RIZAK, V.M. Investigation of thermal properties of the Ge-As-Se glasses by differential scanning calorimetry with heat flow harmonic modulation. In *Journal of Non-Crystalline Solids*, 2013, vol. 366, no. 1, p. 48-53. (1.597 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0022-3093.

ADCA30 BILANYCH, V.S. - LOFAJ, František - FLACHBART, Karol - CSACH, Kornel - KUŽMA, V.V. - RIZAK, V.M. Nanoindentation of amorphous Ge-As-Se films. In *Physics of the Solid State*, 2014, vol. 56, no. 6, p. 1163-1167. (0.782 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 1063-7834.

ADCA31 BLÁZQUEZ, J.S. - MARCIN, Jozef - VARGA, Marek - FRANCO, V. - CONDE, A. - ŠKORVÁNEK, Ivan. Influence of microstructure on the enhancement of soft magnetic character and the induced anisotropy of field annealed HITPERM-type alloys. In *Journal of Applied Physics*, 2015, vol. 117, no. 17, art. no. 17A301. (2.183 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0021-8979.

ADCA32 BOBÍK, Pavol - KUDELA, Karel - PASTIRČÁK, Blahoslav - SANTAGELLO, Andrea - BERTAINA, Mario - SHINOZAKI, Kenji - FENU, Francesco - SZABELSKI, Jacek - URBAR, J. Distribution of secondary particles intensities over Earth's surface: Effect of the geomagnetic field. In *Advances in Space Research*, 2012, vol. 50, no. 7, p. 986-996. (1.178 - IF2011). (2012 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0273-1177.

ADCA33 BOBÍK, Pavol - BOELLA, G. - BOSCHINI, M.J. - CONSOLANDI, C. - DELLA TORRE, Stefano - GERVASI, Massimo - GRANDI, Davide - KUDELA, Karel - PENSOTTI, S. - RANCOITA, Pier Giorgio - ROZZA, Davide - TACCONI, M. Latitudinal Dependence of Cosmic Rays Modulation at 1 AU and Interplanetary Magnetic Field Polar Correction. In *Advances in Astronomy*, 2013, vol. 2013, art. no. 793072. (2013 - Current Contents, WOS, SCOPUS). ISSN 1687-7969.

ADCA34 BOBÍK, Pavol - BOELLA, G. - BOSCHINI, M.J. - CONSOLANDI, C. - DELLA TORRE, Stefano - GERVASI, Massimo - GRANDI, Davide - KUDELA, Karel - PENSOTTI, S. - RANCOITA, Pier Giorgio - TACCONI, M. Systematic investigation of solar modulation of galactic protons for solar cycle 23 using a

Monte Carlo approach with particle drift effects and latitudinal dependence. In *The Astrophysical Journal*, 2012, vol. 745, no. 2, art. no. 132. (6.024 - IF2011). (2012 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-637X.

- ADCA35 BOGACH, A.V. - GLUSHKOV, V.V. - DEMISHEV, S.V. - SLUCHANKO, N.E. - SHITSEVALOVA, N.Yu. - FILLIPOV, V.B. - FLACHBART, Karol. Magnetic field enhancement of the Hall effect in diluted magnetic system La_{1-x}Ce_xB₆ (x 0.1). In *Solid State Sciences*, 2012, vol. 14, no. 11-12, p. 1629-1631. (1.856 - IF2011). (2012 - Current Contents, WOS, SCOPUS). ISSN 1293-2558.
- ADCA36 BOGACH, A.V. - SLUCHANKO, N.E. - GLUSHKOV, V.V. - DEMISHEV, S.V. - AZAREVICH, A.N. - FILIPPOV, V.B. - SHITSEVALOVA, N.Yu. - LEVCHENKO, A.V. - VANACKEN, J. - MOSHCHALKOV, V.V. - GABÁNI, Slavomír - FLACHBART, Karol. Separation of the Contributions to the Magnetization of Tm_{1-x}Yb_xB₁₂ Solid Solutions in Steady and Pulsed Magnetic Fields. In *Journal of Experimental and Theoretical Physics*, 2013, vol. 116, no. 5, p. 838-842. (0.921 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 1063-7761.
- ADCA37 BOGOMOLOVA, Anna - KELLER, Sandro - KLINGER, Johannes - SEDLÁK, Marián - RAK, Dmytro - ŠTURCOVÁ, Adriana - HRUBÝ, Martin - ŠTEPÁNEK, Petr - FILIPPOV, Sergey K. Self-Assembly Thermodynamics of pH-Responsive Amino-Acid -Based Polymers with a Nonionic Surfactant. In *Langmuir*, 2014, vol. 30, no. 38, p. 11307-11318. (4.384 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0743-7463.
- ADCA38 BRADLEY, D.I. - ČLOVEČKO, Marcel - FISHER, S.N. - GARG, D. - GUÉNAULT, A.M. - GUISE, E. - HALEY, R.P. - PICKETT, G.R. - POOLE, M. - TSEPELIN, V. Thermometry in Normal Liquid ³He Using a Quartz Tuning Fork Viscometer. In *Journal of Low Temperature Physics*, 2013, vol. 171, no. 5-6, p. 750-756. (1.183 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0022-2291.
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AED04 PECHÁŇOVÁ, Oľga - CEBOVÁ, Martina - VRANKOVÁ, Stanislava - KLIMENTOVÁ, Jana - BARTA, Andrej - MATÚŠKOVÁ, Zuzana - REHÁKOVÁ, Radoslava - KOVÁČSOVÁ, Mária - ZÁVIŠOVÁ, Vlasta - KONERACKÁ, Martina - KOPČANSKÝ, Peter. Nitric oxide and inhibition of renin-angiotensin-aldosterone system: focussed on aliskiren. In *Proceedings of the Joint Meeting of the 8th International Symposium Nitric Oxide: From Basic Regulations to Lifestyle-Related Diseases and the 2nd Genetic and Environmental Factors in Hypertension : Vrsar, Croatia, September 15-19, 2014*. - Bratislava : Institute of Normal and Pathological Physiology, Slovak Academy of Sciences, 2014, p. 64-69. ISBN 978-80-971699-0-9. VEGA 2/0183/12, 2/0144/14; APVV-0742-10.

AEDA Scientific papers in domestic peer-reviewed proceedings and shorter chapters in domestic scientific monographs or academic/university textbooks

AEDA01 ILKOVIČ, Sergej - REIFFERS, Marián - ŠEBEŇ, V. - ŠTERBÁKOVÁ, Katarína - BURGER, V. - PARMA, L. - ČOBAL, O. - RIZAK, I. - RIZAK, V.. Thermometric properties of chalcogenides class (PbySn_{1-y})₂P₂S₆. In *Transformation of knowledge and technologies to the praxis obtained by research*

and development in the earth resources area. - Bratislava : Slovak Physical society, 2013, chapter 4, p. 126-132. ISBN 978-80-970625-6-9.

- AEDA02 KOPČANSKÝ, Peter. Centre of excellence nanofluid. In *Transformation of knowledge and technologies to the praxis obtained by research and development in the earth resources area*. - Bratislava : Slovak Physical society, 2013, chapter 3, p. 63-64. ISBN 978-80-970625-6-9.
- AEDA03 KOPČANSKÝ, Peter. Cooperative features and phases transfer in nanomethods with of perspective of utilization in nano and biotechnologies. In *Transformation of knowledge and technologies to the praxis obtained by research and development in the earth resources area*. - Bratislava : Slovak Physical society, 2013, chapter 3, p. 95-106. ISBN 978-80-970625-6-9.
- AEDA04 REIFFERS, Marián. Chalcogenides sensoric properties. In *Transformation of knowledge and technologies to the praxis obtained by research and development in the earth resources area*. - Bratislava : Slovak Physical society, 2013, chapter 4, p. 124-125. ISBN 978-80-970625-6-9.
- AEDA05 TIMKO, Milan - TOMČO, Ladislav - MARTON, Karol - RAJŇÁK, Michal - KOPČANSKÝ, Peter - MOLČAN, Matúš. Magnetic fluid as cooling and insulation medium for high power transformers. In *Transformation of knowledge and technologies to the praxis obtained by research and development in the earth resources area*. - Bratislava : Slovak Physical society, 2013, chapter 3, p. 107-123. ISBN 978-80-970625-6-9.
- AEDA06 TOMAŠOVIČOVÁ, Natália - TIMKO, Milan - ZÁVIŠOVÁ, Vlasta - KONERACKÁ, Martina - MITRÓOVÁ, Zuzana - HASHIM, Anežka - RAJŇÁK, Michal - ÉBER, Nándor - TÓTH-KATONA, Tibor - FODOR-CSORBA, Katalin - VAJDA, Anikó - JADZYN, Jan - KOPČANSKÝ, Peter. Ferronematics: combinations of liquid crystals with magnetic fluids. In *Transformation of knowledge and technologies to the praxis obtained by research and development in the earth resources area*. - Bratislava : Slovak Physical society, 2013, chapter 3, p. 65-73. ISBN 978-80-970625-6-9.

AEGA Abstracts of scientific papers published in foreign impacted journals registered in Current Contents Connect

- AEGA01 PECHÁŇOVÁ, Oľga - CEBOVÁ, Martina - BARTA, Andrej - KLIMENTOVÁ, Jana - REHÁKOVÁ, Radoslava - MATÚŠKOVÁ, Zuzana - KOVÁCSOVÁ, Mária - ZÁVIŠOVÁ, Vlasta - KONERACKÁ, Martina - KOPČANSKÝ, Peter. Effects of nanoparticle-loaded aliskiren on structural alterations in the heart and aorta. In *Joint Meeting of the Federation of European Physiological Societies (FEPS) and the Baltic Physiological Societies in Kaunas, Lithuania, August 26-29, 2015 : abstracts*. - 2015, p. 74-75. (4.382 - IF2014). *Acta Physiologica : official journal of the Federation of European Physiological Societies*. - Oxford, England : Blackwell Publishing, 2015, vol. 215, suppl. S705, p. 75-76. (4.382 - IF2014). (2015 - Current Contents). ISSN 1748-1708. VEGA 2/0195/15, 2/0144/14, 2/0165/15; APVV-14-0932, APVV-0742-10.

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- AFA01 ANTOŠ, Jaroslav. Higgs searches at LHC (a critical look). In *CZ-SK ATLAS Physics Workshop, 27 - 28 May 2013, Prague*. - Prague, 2013, invited talk.
- AFA02 ANTOŠ, Jaroslav. ttbar production mechanism. In *CZ-SK ATLAS Physics Workshop, 27 - 28 May 2013, Prague*. - Prague, 2013, invited talk.
- AFA03 BOBÍK, Pavol - BOELLA, G. - BOSCHINI, M.J. - CONSOLANDI, C. - GERVASI, M. - GRANDI, D. - KUDELA, Karel - NOVENTA, S. - PENSOTTI, S. - PUTIŠ, Marián - RANCOITA, Pier Giorgio - ROZZA, Davide - DELLA TORRE, Stefano - TACCONI, M. Heliospheric modulation of Cosmic rays. In *TeV Particle Astrophysics 2013, August 26 - 29, 2013, Irvine, California, USA*. - Irvine, 2013, invited talk.
- AFA04 BOBÍK, Pavol. Propagation of Cosmic rays in the Heliosphere and in the Earth magnetic field. In *Searching for the sources of Galactic cosmic rays, Paris, France, December 12 - 14, 2012*. - Paris, 2012, invited talk.
- AFA05 DIKO, Pavel. Growth and microstructure of YBCO bulk superconductors with Ce addition. In *PASREG 2012 : 8th International Workshop on Processing and Applications of Superconducting (RE)BCO Large Grain Materials, Taiwan, 6 - 8 December, 2012*. - 2012, invited talk.
- AFA06 FLACHBART, Karol. Nature of electrical conductivity in topological insulator SmB₆ at low temperatures. In *ISBB 2014 : 18th International Symposium on Boron, Borides and Related Materials, August 31 - September 5, 2014, Honolulu, Hawaii, USA*. - Honolulu, 2014, invited talk.
- AFA07 GAŽOVÁ, Zuzana. Amyloid aggregation of proteins – focus on inhibitors. In *Institute of Nanostructure Materials ISMN-CNR, 28 November 2014, Bologna, Italy*. - 2014, invited talk.
- AFA08 GAŽOVÁ, Zuzana - HAYRYAN, S. - HU, Chin-Kun - KOŽÁR, Tibor. Efficiency of GPGPU in Biomolecular Computing. In *17th Biophysics Conference, Taipei, Taiwan, May 23-25, 2012*. - 2012, invited talk IL-04, p.30.
- AFA09 GAŽOVÁ, Zuzana. Interaction of magnetic nanoparticles with protein amyloid structures. In *Seminário do INCT/GFCx, University de Sao Paulo, 11.4. 2014, Sao Paulo, Brasil*. - 2014, invited talk.
- AFA10 HNATÍČ, Michal. Field-Theoretic Approach to the Kinetics of Reaction Processes: Role of Density and Velocity Fluctuations. In *NCTS Spring Workshop on Critical Phenomena and Complex Systems, Taipei, Republic of China, 13 - 16 April 2012*. - 2012, invited talk.
- AFA11 KONERACKÁ, Martina. Immobilization of biologically active substances to magnetic nanoparticles. In *Seminário do INCT/GFCx, University de Sao Paulo, 11.4. 2014, Sao Paulo, Brasil*. - 2014, invited talk.

- AFA12 KOPČANSKÝ, Peter. Anisotropic properties in liquid crystals containing magnetic nanoparticles. In *Seminário do INCT/GFCx, University de Sao Paulo, 11.4. 2014, Sao Paulo, Brasil.* - 2014, invited talk.
- AFA13 KOPČANSKÝ, Peter - TIMKO, Milan - KONERACKÁ, Martina - ZÁVIŠOVÁ, Vlasta - TOMAŠOVIČOVÁ, Natália - GAŽOVÁ, Zuzana - ŠIPOŠOVÁ, Katarína - MITRÓOVÁ, Zuzana - HASHIM, Anežka - ÉBER, Nándor - JADZYN, Jan. Complex systems (liquid crystals and amyloid structures) containing nanosized magnetic particles. In *10 CCC : 10th Conference on Colloid Chemistry, Budapest, Hungary, August 29-31, 2012.* - 2012, invited talk.
- AFA14 KOPČANSKÝ, Peter. Feronematics. In *18th Conference of Czech and Slovak Physicists, September 16-19, 2014, Olomouc, Czech Republic.* - Olomouc, 2014, invited lecture.
- AFA15 KOPČANSKÝ, Peter - TIMKO, Milan - TOMAŠOVIČOVÁ, Natália - KONERACKÁ, Martina - ZÁVIŠOVÁ, Vlasta - MITRÓOVÁ, Zuzana - CHAUD, Xavier - JADZYN, Jan. Ferronematics: a way from thermovision camera to magnetovision camera. In *8th Workshop on Molecular Acoustics, Relaxation and Calorimetric Methods within the framework of the 41st Winter School on Wave and Quantum Acoustics, 28th February - 2nd March, 2012, Szczyrk, Poland.* - 2012, invited talk.
- AFA16 KOPČANSKÝ, Peter. How to induce high sensitivity of liquid crystal to external magnetic field? In *PM 2014 : European Conference Physics of Magnetism, June 23 - 27, 2014, Poznań, Poland.* - Poznan, 2014, invited talk.
- AFA17 KOPČANSKÝ, Peter. Interaction of magnetic fluids with amyloid sstructures. In *PLMMP 2014 : 6th International Conference Physics of Liquid Matter: Modern Problems, May 23th-27th, 2014, Kyiv, Ukraine.* - Kyiv, 2014, invited lecture.
- AFA18 KOPČANSKÝ, Peter - TOMAŠOVIČOVÁ, Natália - TIMKO, Milan - ZÁVIŠOVÁ, Vlasta - KONERACKÁ, Martina - MITRÓOVÁ, Zuzana - HASHIM, Anežka - RAJŇÁK, Michal - HNATIC, Michal - ÉBER, Nándor - TÓTH-KATONA, Tibor - FODOR-CSORBA, Katalin - VAJDA, Anikó - JADZYN, Jan - HONKONEN, Juha - BEAUGNON, Eric - CHAUD, Xavier. Magnetic nanoparticles can help to increase the sensitivity of liquid crystals to an applied external magnetic field. In *ICMF 13 : 13th International Conference on Magnetic Fluids, Januar 7-11, 2013, New Delhi, India.* - New Delhi, 2013, invited talk.
- AFA19 KOPČANSKÝ, Peter. Magnetoferritin. In *ISMAP 2015 : Ilmenau Symposium on Medical Application of Magnetic Nanoparticles and Ferrofluids, Ilmenau, Germany, September 1-3, 2015.* - Ilmenau, 2015, invited talk.
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- AFA21 KOPELIOVICH, B.Z. - NEMČÍK, Ján - POTASHNIKOVA, I.K. - SCHMIDT, Ivan. High-pT hadrons from pA and AA collisions: Impact of energy conservation. In *9th International Workshop on High-pT Physics at LHC, September 24-28, 2013, Grenoble, France*. - Grenoble, 2013, invited talk.
- AFA22 KOPELIOVICH, B.Z. - NEMČÍK, Ján - POTASHNIKOVA, I.K. - SCHMIDT, Ivan. Jet quenching: a non-energy-loss scenario. In *International Conference on New Frontiers in Physics, August 28 - September 5, 2013, Kolymbari, Crete, Greece*. - Kolymbari, 2013, invited talk.
- AFA23 KUDELA, Karel. Cosmic rays and space weather. In *ECRS 2012: 23rd European Cosmic Ray Symposium and 32nd Russian Cosmic Ray Conference, Moscow, Russia, July 2-6, 2012*. - 2012, invited talk.
- AFA24 KUDELA, Karel. Low energy cosmic ray variability: A couple of remarks. In *22nd Annual Student Conference Week of Doctoral Students 2013, June 4-7, 2013, Prague*. - Prague, 2013, invited talk.
- AFA25 KUDELA, Karel. On quasi-periodic variations of low energy cosmic rays observed near Earth. In *ICHLNRRRA 2014 : 8th International Conference on High Levels of Natural Radiation and Radon Areas, September 1 - 5, 2014, Prague, Czech Republic*. - Prague, 2014, invited talk.
- AFA26 KUDELA, Karel. Quasi-periodic variations of low energy cosmic rays. In *STP 13 : 13th Solar terrestrial Physics symposium, October 12 - 18, 2014, Xian, China*. - Xian, 2014, invited talk.
- AFA27 MARCIN, Jozef - ŚNIADECKI, Zbigniew - KOVÁČ, Jozef - IDZIKOWSKI, Bogdan - ŠKORVÁNEK, Ivan. Magnetocaloric Effect in GdFeCo-Based Melt-Spun Ribbons. In *TMS 2012 : 141st Annual Meeting and Exhibition, March 11 -15, 2012, Orlando, Florida*. - 2012, invited lecture.
- AFA28 MIHALIK, Marián. Synthesis, structure and magnetic properties of progressive materials based on manganese oxides. In *The Henryk Niewodniczanski Institute of Nuclear Physics Polish Academy of Sciences*. - Krakow, 2013, invited talk.
- AFA29 NEMČÍK, Ján. High-pT hadrons in nuclear collisions: from RHIC to LHC. In *4th International Workshop High Energy Physics in the LHC Era, January 4-10, 2012, Valparaiso, Chile*. - Valparaiso, 2012, invited talk.
- AFA30 NEMČÍK, Ján. Hydrodynamics vs perturbative QCD mechanism in production of hadrons in heavy ion collisions. In *EDS Blois 2013: 15th Conference on Elastic and Diffractive scattering, September 9-13, 2013, Saariselka, Finland : proceedings*. - Saariselka, 2012, invited talk.
- AFA31 SAMUELY, Peter - KAČMARČÍK, Jozef - PRIBULOVÁ, Zuzana - SZABÓ, Pavol - SAMUELY, Tomáš - ŠOLTÝS, Ján - CAMBEL, V. - KARAPETROV, Goran - IAVARONE, M. CDW and superconductivity in CuTiSe₂. In *BESSY, Berlin, 27.10. 2015*. - 2015, invited talk.

- AFA32 SAMUELY, Peter. Development of Centre of Low Temperature Physics Kosice. In *Institute of Technical Physics and Materials Science, Centre for Energy Research, Budapest, 8.12. 2015*. - 2015, invited talk.
- AFA33 SAMUELY, Peter. MoC ultrathin superconducting films on verge to the insulating state. In *S-HY-NE-D 2014 : Physics and Applications of Superconducting Hybrid Nano-Engineered Devices, August 31 - September 4, 2014, Castellabate, Italy*. - Castellabate, 2014, invited lecture.
- AFA34 SKYBA, Peter. Analógie horizontov udalostí čiernych dier v supratekutých fázach hélia-3. In *20. konferencia slovenských fyzikov, 2.-5.september 2013, Bratislava : Zborník*. - Bratislava : SFS, 2013, invited talk.
- AFA35 SKYBA, Peter. Spin Wave analogue of event horizon in superfluid 3He-B. In *Microkelvin 2013 : Microkelvin Workshop 2013, 9 - 13 September 2013, Porvoo, Finland*. - Porvoo, 2013, invited talk.
- AFA36 SZABÓ, Pavol. STM studies on the intrinsic Josephson junction behavior of the low temperature (LaSe) 1.14(NbSe₂) superconductor. In *SUPERSTRIPES 2012 : Quantum Phenomena in Complex Matter, Erice-Italy, 11-18 July 2012*. - 2012, invited talk.
- AFA37 SZABÓ, Pavol. Superconductivity near the superconductor-insulator transition in MoC thin films Nanoscale superconductivity. In *Advances in Nanostructures Superconductors: Materials, Properties and Theory, 4th to 7th May, 2014, Madrid, Spain*. - Madrid, 2014, invited lecture.
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- AFA39 SZABÓ, Pavol - KULKARNI, P. - SAMUELY, Tomáš - HAŠKOVÁ, Veronika - ŽEMLIČKA, M. - GRAJCAR, M. - SAMUELY, Peter. Superconductivity in MoC thin films near superconductor-insulator transition. In *Institute of Technical Physics and Materials Science, Centre for Energy Research, Budapest, 8.12. 2015*. - 2015, invited talk.
- AFA40 SZABÓ, Pavol. The low temperature AFM in Kassa. In *VIII. Hungarian SPM Conference, 18 October 2013, Debrecen, Hungaria*. - Debrecen, 2013, invited talk.
- AFA41 ŠKORVÁNEK, Ivan - MARCIN, Jozef - CAPIK, Marek - JANIČKOVIČ, Dušan - ŠVEC, Peter. Amorphous and nanocrystalline bilayer ribbons with tailorable soft magnetic properties. In *ICSM 2014 : 4th International Conference on Superconductivity and Magnetism, 27 April 2014 - 2 May 2014, Antalya, Turkey*. - 2014, invited talk.
- AFA42 ŠKORVÁNEK, Ivan. Field-annealed Soft Magnetic Amorphous and Nanocrystalline Ribbons with Improved Energy Performance. In *CIMTEC 2014 :*

6th Forum on New Materials, June 15-19, 2014, Montecatini Terme, Italy. - 2014, invited lecture.

- AFA43 ŠKORVÁNEK, Ivan - MARCIN, Jozef - CAPIK, Marek - VARGA, Marek - JANOTOVÁ, Irena - ŠVEC, Peter. Field-annealed amorphous and nanocrystalline bilayer ribbons with tailorable soft magnetic properties. In *MAP6 : 6th International Workshop on Materials Analysis and Processing in Magnetic Fields*, 8 - 11 July, 2014, Okinawa, Japan. - 2014, invited lecture, p. 2-3.
- AFA44 ŠKORVÁNEK, Ivan - MARCIN, Jozef - IDZIKOWSKI, Bogdan - GEBARA, P. - PAWLIK, Piotr. LaFeCoSi- and GdFeAl-Based Composites with Enhanced Refrigerant Capacity and Table-Like Magnetocaloric Effect. In *TMS 2013 : 142nd Annual Meeting and Exhibition*, March 3-7, 2013, San Antonio, Texas. - San Antonio, 2013, invited talk.
- AFA45 ŠKORVÁNEK, Ivan - MARCIN, Jozef - VARGA, Marek - MAŤKO, Igor - ŠVEC, Peter. Rapidly Quenched Amorphous and Nanocrystalline Bilayer Ribbons for Energy and Sensor Applications. In *EMN 2014 : 8th International conference on energy, materials and nanotechnology*, 22 - 25 November 2014, Orlando, Florida. - 2014, invited talk SS-06, p. 100.
- AFA46 ŠKORVÁNEK, Ivan - CAPIK, Marek - MARCIN, Jozef - JANIČKOVIČ, Dušan - ŠVEC, Peter. Soft magnetic amorphous and nanocrystalline bilayer ribbons. In *ANMM 2013 : 6th International Workshop on Amorphous and Nanostructured Magnetic Materials*, September 30 - October 3, 2013, Sendai, Japan. - Sendai, 2013, invited talk.
- AFA47 ŠKORVÁNEK, Ivan. Soft magnetic composites with tunable magnetocaloric properties. In *SMM 21 : 21st International Conference on Soft Magnetic Materials*, 1 - 4 September, 2013, Budapest, Hungary. - Budapest, 2013, invited talk.
- AFA48 ŠKORVÁNEK, Ivan - MARCIN, Jozef - ŠVEC, Peter - LUPU, Nicoleta - CHIRIAC, Horia. Tuning of soft magnetic properties in FeCo- and FeNi-based amorphous and nanocrystalline alloys by thermal processing in external magnetic field. In *THERMEC 2013 : International conference on processing and manufacturing of advanced materials. Book of abstracts*. Las Vegas, USA, 2.-6.12.2013. - B.V., 2013, invited talk.
- AFA49 TIMKO, Milan - HASHIM, Anežka - MOLČAN, Matúš - SKUMIEL, Andrzej - KOVÁČ, Jozef - RAJŇÁK, Michal - KOPČANSKÝ, Peter - GOJZEWSKI, Hubert - MAKOWSKI, Marcin - ROYER, F. Bacterial magnetic nanoparticles – aspects of preparation, characterization and applications. In *10 CCC : 10th Conference on Colloid Chemistry*, Budapest, Hungary, August 29-31, 2012. - 2012, invited talk.
- AFA50 TIMKO, Milan - MOLČAN, Matúš - RAJŇÁK, Michal - KOVÁČ, Jozef - KOPČANSKÝ, Peter - SKUMIEL, Andrzej - JÓZEFČZAK, Arkadiusz. Heating Characteristic of Magnetic Fluids based on various carrier liquid. In *9th Workshop on Molecular Acoustics, Relaxation and Calorimetric Methods*, February 25 - March 1, 2013, Szczyrk, Poland. - Szczyrk, 2013, invited talk.

- AFA51 TIMKO, Milan. Hyperthermic effect in magnetosome. In *ISMAP 2015 : Ilmenau Symposium on Medical Application of Magnetic Nanoparticles and Ferrofluids, Ilmenau, Germany, September 1-3, 2015*. - Ilmenau, 2015, invited talk.
- AFA52 TIMKO, Milan. Magnetosomes-preparation and properties. In *Seminário do INCT/GFCx, University de Sao Paulo, 11.4. 2014, Sao Paulo, Brasil*. - 2014, invited talk.
- AFA53 TIMKO, Milan - HASHIM, Anežka - MOLČAN, Matúš - RAJŇÁK, Michal - KOPČANSKÝ, Peter - MAKOWSKI, Marcin - GOJZEWSKI, Hubert - JÓZEF CZAK, Arkadiusz - SKUMIEL, Andrzej. The heating effect in bacterial magnetic nanoparticles prepared at various condition. In *8th Workshop on Molecular Acoustics, Relaxation and Calorimetric Methods within the framework of the 41st Winter School on Wave and Quantum Acoustics, 28th February - 2nd March, 2012, Szczyrk, Poland*. - 2012, invited talk.
- AFA54 TIMKO, Milan. The hyperthermic effect in bacterial nanoparticles. In *43rd Winter School on Wave Acoustics and 10th Winter Workshop on Molecular Acoustics, Relaxation and Calorimetric Methods, 4.3. - 7.3. 2014, Szczyrk, Poland*. - Szczyrk, 2014, invited talk.
- AFA55 TOMAŠOVIČOVÁ, Natália. Structural Phase transition in ferronematics - nematic liquid crystals doped with magnetic nanoparticles. In *ESF Exploratory Workshop on Defect-Assembled Soft Matter for Nanoscience and Biotechnology, Rogaška Slatina, Slovenia, 13 - 16 September 2013*. - Rogaška Slatina, 2013, invited talk.

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- AFB01 BUTVINOVÁ, Beata - BUTVIN, Pavol - KADLEČÍKOVÁ, M. - KUZMINSKI, M. - CSACH, Kornel. Changes of magnetic properties and surfaces condition due to thermal treatment of FeNbCuBSi ribbons. In *APCOM 2012 : proceedings of the 18th International Conference on Applied Physics of Condensed Matter, June 20 - 22, 2012, Štrbské Pleso, Slovak Republic*. Eds. J. Vajda, I. Jamnický. - Bratislava : Slovenská technická univerzita v Bratislave, 2012, p. 169-172. ISBN 978-80-227-3720-3.
- AFB02 SKYBA, Peter. Svet pri absolútnej nule. In *Bratislavská vedecká cukráreň, 19. február 2013, Bratislava*. - Bratislava, 2013, invited talk.
- AFB03 ŠKORVÁNEK, Ivan - MARCIN, Jozef - CAPIK, Marek - KOVÁČ, J. - JANIČKOVIČ, Dušan - ŠVEC, Peter Jr. Magnetic processing of amorphous and nanocrystalline alloys. In *NANOVED 2013 & NANO INFO DAY : 6th International Conference on Nanosciences, Nanotechnologies, Nanomaterials and NANO INFO DAY of the Nanoforce Project*. - Brno : TRIBUN EU, 2013, o-13. ISBN 978-80-263-0511-8.
- AFB04 ŠVEC, Peter Jr. - ŠVEC, Peter - ŠKORVÁNEK, Ivan - HOŠKO, Jozef - VLASÁK, Gabriel. Structure and magnetic properties of Fe-Ni-Nb-B systems. In

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- AFBA01 HASHIM, Anežka - TOMAŠOVIČOVÁ, Natália - MOLČAN, Matúš - KOPČANSKÝ, Peter - TOMORI, Zoltán - ROYER, F. - JAMON, D. - GOJZEWSKI, Hubert - MAKOWSKI, Marcin - TIMKO, Milan. Magnetic nanoparticles prepared by biomineralization process - preparation, characterization and utilization. In *Proceedings of the scientific conference Physics of Materials 2012, 17-19 October 2012, Košice, Slovakia*. Editors Jana Tóthová, Vladimír Lisý. - Košice : TU, 2012, invited talk, p. 41-44. ISBN 978-80-553-1175-3.
- AFBA02 KAČMARČÍK, Jozef - PRIBULOVÁ, Zuzana - SZABÓ, Pavol - GABÁNI, Slavomír - MORI, Takao - SAMUELY, Peter. YB6 - superconductor with an Einstein lattice. In *Proceedings of the scientific conference Physics of Materials 2012, 17-19 October 2012, Košice, Slovakia*. Editors Jana Tóthová, Vladimír Lisý. - Košice : TU, 2012, invited talk, p. 55-58. ISBN 978-80-553-1175-3.
- AFBA03 KONERACKÁ, Martina. Medical applications of magnetic fluid. In *Transformation of knowledge and technologies to the praxis obtained by research and development in the earth resources area, Stará Lesná, Slovakia, 3 - 5 June, 2012 : international conference*. - Bratislava : Slovak Physical society, 2013, invited talk.
- AFBA04 KOPČANSKÝ, Peter. Cooperative features and phases transfer in nanomaterials with of perspective of utilization in nano and biotechnologies. In *Transformation of knowledge and technologies to the praxis obtained by research and development in the earth resources area, Stará Lesná, Slovakia, 3 - 5 June, 2012 : international conference*. - Bratislava : Slovak Physical society, 2013, invited talk.
- AFBA05 ŠKORVÁNEK, Ivan - MARCIN, Jozef - CAPIK, Marek - JANOTOVÁ, Irena - KOVÁČ, Jozef - ŠVEC, Peter - IDZIKOWSKI, Bogdan. Soft magnetic Fe-based alloys for energy applications. In *Proceedings of the scientific conference Physics of Materials 2012, 17-19 October 2012, Košice, Slovakia*. Editors Jana Tóthová, Vladimír Lisý. - Košice : TU, 2012, invited talk, p. 59-61. ISBN 978-80-553-1175-3.
- AFBA06 TIMKO, Milan. Magnetic fluids for power transformers and hyperthermia. In *Transformation of knowledge and technologies to the praxis obtained by research and development in the earth resources area, Stará Lesná, Slovakia, 3 - 5 June, 2012 : international conference*. - Bratislava : Slovak Physical society, 2013, invited talk.
- AFBA07 TOMAŠOVIČOVÁ, Natália. Ferronematics: combinations of liquid crystals with magnetic fluids. In *Transformation of knowledge and technologies to the praxis obtained by research and development in the earth resources area, Stará Lesná, Slovakia, 3 - 5 June, 2012 : international conference*. - Bratislava : Slovak Physical society, 2013, invited talk.

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AFHB02 PARNICA, Jozef - ANTALÍK, Marián. Biotechnologické využitie iónových kvapalín v interakcii s biomakromolekulami. In *Interaktívna konferencia mladých vedcov 2012, 4.4.-5.4. 2012, Bratislava : zborník abstraktov.* - Bratislava : Preveda-Občianske združenie, 2012, s. 10-11. ISBN 978-80-970712-2-6.

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AFK01 JANOTOVÁ, Irena - MAŤKO, Igor - ŠVEC, Peter Jr. - ZIGO, Juraj - JANIČKOVIČ, Dušan - MARCIN, Jozef - ŠKORVÁNEK, Ivan - ŠVEC, Peter. The influence of Fe/Co ratio on structure and magnetic properties in Fe-Co-Sn-B based RQ systems. In *ISMANAM 2015 : 22nd International Symposium on Metastable, Amorphous and Nanostructured Materials, July 13-17, 2015, Paris, France. Book of Abstracts.* - Paris, 2015, p. 322.

AFK02 MAŤKO, Igor - JANOTOVÁ, Irena - ŠVEC, Peter Jr. - ZIGO, Juraj - ŠVEC, Peter - JANIČKOVIČ, Dušan - ŠKORVÁNEK, Ivan. Investigation of phases elaborated by thermally activated crystallization of amorphous Fe/Co-Sn-B ribbons. In *ISMANAM 2015 : 22nd International Symposium on Metastable, Amorphous and Nanostructured Materials, July 13-17, 2015, Paris, France. Book of Abstracts.* - Paris, 2015, p. 233.

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AFL Domestic conferences posters

AFL01 BARTA, Andrej - CEBOVÁ, Martina - KLIMENTOVÁ, Jana - VRANKOVÁ, Stanislava - MATÚŠKOVÁ, Zuzana - REHÁKOVÁ, Radoslava - KOVÁČSOVÁ, Mária - ZÁVIŠOVÁ, Vlasta - KONERACKÁ, Martina - KOPČANSKÝ, Peter - PECHÁŇOVÁ, Oľga. Structural changes in myocardium and aorta after aliskiren-induced inhibition of renin-angiotensin-aldosterone system. In *Advances in Cardiovascular Research : From the bench to the patient's bed, Program & Book of Abstracts, 2-5 September 2015, Smolenice, Slovakia.* - Bratislava : VEDA, Publishing House of the Slovak Academy of Sciences, 2015, p. 61. ISBN 978-80-224-1452-4. VEGA 2/0165/15, 2/0144/14, APVV-14-0932.

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

AGJ01 KOVÁČ, František - PETRYSHNETS, Ivan - STOYKA, Volodymyr - KVAČKAJ, Tibor - ŠKORVÁNEK, Ivan. *Spôsob výroby izotropných elektrotechnických ocelí s nízkymi wattovými stratami* : Patent č. 288322. Banská Bystrica : ÚPV SR, 2015.

AGJ02 SEDLÁK, Marián - KOŇÁK, Čestmír. *Spôsob prípravy polymérnych nanočastíc na báze homopolyméru poly(etylakrylovej kyseliny)* : Patent č. 287951. Banská Bystrica : Úrad priemyselného vlastníctva Slovenskej republiky, 2012.

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BFBA Abstracts of scientific papers from international action in Slovakia

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BFBA02 ANTOŠOVÁ, Andrea - BEDNÁRIKOVÁ, Zuzana - ŠIPOŠOVÁ, Katarína - DEMJÉN, Erna - MAREK, Jozef - GAŽOVÁ, Zuzana. Experimental conditions of in vitro lysozyme amyloid fibrillization determine their properties. In *SSB 2013: 8th International Conference Structure and Stability of Biomacromolecules, September 10 - 13, 2013, Košice, Slovakia : book of contributions*. - Košice : Institute of Experimental Physics, Slovak Academy of Sciences, 2013, poster, abstract PO13, p. 103-104. ISBN 978-80-89656-01-1.

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BFBA04 FEDUNOVÁ, Diana - ANTOŠOVÁ, Andrea - MAREK, Jozef - DEMJÉN, Erna - BEDNÁRIKOVÁ, Zuzana - ŠIPOŠOVÁ, Katarína - BAGELOVÁ, Jaroslava - GAŽOVÁ, Zuzana. Utilization of imidazolium-based ionic liquids as trigger for

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- BFBA06 GÁL, Peter - PERŽEĽOVÁ, V. - VASILENKO, T. - JAKUBČO, Ján - GABIUS, Hans-Joachim - DVORÁNKOVÁ, B. - SABOL, F. - SMETANA, K. Jr. Galectins-1 and -3 differently modulate wound microenvironment with different impact on incisional and excisional skin wound healing in rats. In *SSB 2013: 8th International Conference Structure and Stability of Biomacromolecules, September 10 - 13, 2013, Košice, Slovakia : book of contributions*. - Košice : Institute of Experimental Physics, Slovak Academy of Sciences, 2013, short communication, abstract SC9, p. 71-72. ISBN 978-80-89656-01-1.
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- BFBA11 KUDLÁČOVÁ, J. - ANTALÍK, Marián. Temperature effects on optical absorption, fluorescence and circular dichroism of heparin-safranin T complex. In *SSB 2013: 8th International Conference Structure and Stability of Biomacromolecules, September 10 - 13, 2013, Košice, Slovakia : book of contributions*. - Košice : Institute of Experimental Physics, Slovak Academy of Sciences, 2013, poster, abstract PO8, p. 94-95. ISBN 978-80-89656-01-1.
- BFBA12 MOCANU, Maria-Magdalena - GANEA, Constanta - ŠIPOŠOVÁ, Katarína - FILIPPI, Alexandru - RADU, E. - DEMJÉN, Erna - MAREK, Jozef - BEDNÁRIKOVÁ, Zuzana - ANTOŠOVÁ, Andrea - GAŽOVÁ, Zuzana. Morphological diversity of lysozyme amyloid fibrils induce different cytotoxicity. In *SSB 2013: 8th International Conference Structure and Stability of Biomacromolecules, September 10 - 13, 2013, Košice, Slovakia : book of contributions*. - Košice : Institute of Experimental Physics, Slovak Academy of Sciences, 2013, poster, abstract PO17, p. 111-112. ISBN 978-80-89656-01-1.
- BFBA13 MOLČAN, Matúš - HASHIM, Anežka - KOVÁČ, Jozef - KOPČANSKÝ, Peter - GOJZEWSKI, Hubert - SKUMIEL, Andrzej - TIMKO, Milan. Magnetosomes - a new type of magnetic nanoparticles. The methods of preparation, characterization, and their applications. In *SSB 2013: 8th International Conference Structure and Stability of Biomacromolecules, September 10 - 13, 2013, Košice, Slovakia : book of contributions*. - Košice : Institute of Experimental Physics, Slovak Academy of Sciences, 2013, short communication, abstract SC12, p. 77-78. ISBN 978-80-89656-01-1.
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BFBA17 VARCHULOVÁ NOVÁKOVÁ, Zuzana - TIMKO, Milan - HASHIM, Anežka - MOLČAN, Matúš - KUNIAKOVÁ, Marcela - ORAVCOVÁ, L. - CSÖBÖNYEIOVÁ, M. - BÖHMER, Daniel - DANIŠOVIČ, Ľuboš. Preliminary results of in vitro cytotoxicity testing of bacterial magnetic nanoparticles. In *SSB 2013: 8th International Conference Structure and Stability of Biomacromolecules, September 10 - 13, 2013, Košice, Slovakia : book of contributions*. - Košice : Institute of Experimental Physics, Slovak Academy of Sciences, 2013, poster, abstract PO3, p. 85. ISBN 978-80-89656-01-1.

BFBA18 VIET, M.H. - ŠIPOŠOVÁ, Katarína - LI, M. Suan - BEDNÁRIKOVÁ, Zuzana - NGUYEN, T. Trang - GAŽOVÁ, Zuzana. Inhibition of A beta peptide fibrillization by tripeptides - importance of Proline. In *SSB 2013: 8th International Conference Structure and Stability of Biomacromolecules, September 10 - 13, 2013, Košice, Slovakia : book of contributions*. - Košice : Institute of Experimental Physics, Slovak Academy of Sciences, 2013, poster, abstract PO16, p. 109-110. ISBN 978-80-89656-01-1.

FAI Editorial work on book publications (bibliographies, encyclopedias, catalogues, dictionaries, collective publications/proceedings, atlases ...)

FAI01 *International Conference Structure and Stability of Biomacromolecules SSB 2015, june 30-july 3, Košice, Slovakia : book of contributions*. 9th. Eds. J. Bágel'ová, D. Fedunová, Z. Gažová, K. Šipošová ; rec. M. Dudáš, E. Sedlák. Košice : SAS - Inst. of experimental physics, 2015. ISBN 978-80-89656-08-0.

FAI02 *SSB 2013: 8th International Conference Structure and Stability of Biomacromolecules, September 10 - 13, 2013, Košice, Slovakia : book of contributions*. Editors: Jaroslava Bágel'ová, Diana Fedunová, Zuzana Gažová. Košice : Institute of Experimental Physics, Slovak Academy of Sciences, 2013. 151 s. ISBN 978-80-89656-01-1.

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- FAI09 *19th Conference of Slovak Physicists, 3. - 6.9. 2012, Prešov : proceedings.* Editor Marián Reiffers. Bratislava : Slovak Physical Society, 2013. 142 s. ISBN 978-80-970625-8-3.
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GII Other publications and documents which is not possible to categorize into classes/categories mentioned above

- GII01 BARKA, Ivan - BETÁK, Juraj - BUCHA, Tomáš - CEBECAUER, Tomáš - FERANEC, Ján - HAGUE IGONDOVÁ, Miroslava - HEFTY, Ján - HERDA, Pavol - HLAVÁČ, T. - HUSÁRIK, Marek - JANÁK, Juraj - KAŇÁK, Ján - KUDELA, Karel - MIŠKOVÁ, Monika - NOVÁČEK, Jozef - NOVÁKOVÁ, Martina - SVÍČEK, Michal - SVOREŇ, Ján - ŠÚRI, Marcel - TAKÁČ, Jozef. *Meniace sa Slovensko očami satelitov* [elektronický zdroj]. Editor Ján Feranec. Bratislava : Veda, 2012. DVD + 72 s. textová časť. Názov z DVD. Požaduje sa Adobe Flash Player. ISBN 978-80-224-1285-8.
- GII02 FERANEC, Ján - KUDELA, Karel - KVETŇANSKÝ, Richard - LAPIN, Juraj - ŠKOBLA, Daniel. Slovenská veda vo vesmíre. In *Pravda*, 11.5.2013, roč. XXIII, č. 108, s. 39. ISSN 1335-4051.
- GII03 FERANEC, Ján - KUDELA, Karel - KVETŇANSKÝ, Richard - LAPIN, Juraj. Užšia spolupráca vo vesmírnych aktivitách : SAV - jeden z pilierov prístupového procesu Slovenska do ESA. In *Správy Slovenskej akadémie vied*, 2013, roč. 49, č. 3, s. 8-9. ISSN 0139-6307.