

## Publikácie / Publications

**Department: SAVFYZIK - Fyzikálny ústav SAV**  
**Year of publication 2012~2015**

### Statistics publication category

AAA	Scientific monographs published abroad	3
ABC	Chapters in scientific monographs published abroad	15
ADCA	Scientific papers in foreign journals registered in Current Contents Connect with IF (impacted)	293
ADDA	Scientific papers in domestic journals registered in Current Contents Connect with IF (impacted)	10
ADEB	Scientific papers in other foreign journals not registered in Current Contents Connect without IF (non-impacted)	7
ADFB	Scientific papers in other domestic journals not registered in Current Contents Connect without IF (non-impacted)	4
ADMA	Scientific papers in foreign impacted journals registered in Web of Sciences or Scopus	5
ADMB	Scientific papers in foreign non-impacted journals registered in Web of Sciences or Scopus	53
ADNA	Scientific papers in domestic impacted journals registered in Web of Sciences or Scopus	3
AEC	Scientific papers in foreign peer-reviewed proceedings, monographs	1
AECA	Scientific papers in foreign peer-reviewed proceedings and shorter chapters in foreign scientific monographs or academic/university textbooks	4
AFA	Published invited papers from foreign scientific conferences	8
AFB	Published invited papers from domestic scientific conferences	22
AFBA	Published invited papers from international scientific conferences in Slovakia	3
AFC	Published papers from foreign scientific conferences	55
AFD	Published papers from domestic scientific conferences	63
AFDA	Published papers from international scientific conferences in Slovakia	16
AFDB	Published papers from domestic scientific conferences	2
AFE	Abstracts of invited papers from foreign conferences	15
AFF	Abstracts of invited papers from domestic conferences	1
AFFA	Abstracts of invited papers from international conferences in Slovakia	1
AFG	Abstracts of papers from foreign conferences	42
AFH	Abstracts of papers from domestic conferences	10
AFHA	Abstracts of papers from international conferences in Slovakia	7
AFK	Foreign conferences posters	24
AFL	Domestic conferences posters	5
BBB	Chapters in professional books published in Slovak publishing	1

	houses	
BDF	Professional papers in other domestic journals (not registered in CCC)	6
BDFB	Professional papers in other domestic non-impacted journals (not registered in CCC)	1
BEF	Professional papers in domestic proceedings (conference/non-conference; peer-reviewed/non-peer-reviewed)	1
DAI	Dissertations and habilitation theses	1
FAI	Editorial work on book publications (bibliographies, encyclopedias, catalogues, dictionaries, collective publications/proceedings, atlases ...)	13
GHG	Works published on the internet	1
GII	Other publications and documents which is not possible to categorize into classes/categories mentioned above	1
<b>Count</b>		<b>697</b>

### AAA Scientific monographs published abroad

- AAA01 HEINOSAARI, Teiko - ZIMAN, Mário. *The Mathematical Language of Quantum Theory : From Uncertainty to Entanglement*. Cambridge : Cambridge University Press, 2012. 327 s. ISBN 978-0-521-19583-6.
- AAA02 ŠAMAJ, Ladislav - BAJNOK, Zoltán. *Introduction to the Statistical Physics of Integrable Many - body Systems*. Cambridge : Cambridge University Press, 2013. 504 s. ISBN 978-1-107-03043-5.
- AAA03 VESELSKÝ, Martin. *Nuclear reactions with heavy ion beams*. Saarbrücken : LAP LAMBERT Academic Publishing, 2014. 132 s. ISBN 978-3-659-21105-8.

### ABC Chapters in scientific monographs published abroad

- ABC01 GMUCOVÁ, Katarína. A Review of Non-Cottrellian Diffusion Towards Micro-and Nano- Structured Electrodes : Chapter 1. In *Electrochemical Cells- New Advances in Fundamental Researches and Applications*. - Rijeka : InTech, 2012, p. 3-20. ISBN 978-953-51-0032-4.
- ABC02 GMUCOVÁ, Katarína - MÜLLEROVÁ, J. Amorphous Photovoltaics: Organics Versus Inorganics : Chapter 1. In *Amorphous Materials: New Research*. - New York : Nova Science Publishers, Inc., 2013, p. 1-26. ISBN 978-1-62417-678-4.
- ABC03 ILLEKOVÁ, Emília - ŠESTÁK, J. Crystallization of Metallic Micro-, Nano-, and Non-Crystalline Alloys : Chapter 13. In *Thermal Analysis of Micro, Nano- and Non-Crystalline Materials : Transformation, Crystallization, Kinetics and Thermodynamics*. - Dordrecht/Heidelberg/N.York/London : Springer, 2013, p. 257-289. ISBN 978-90-481-3149-5.
- ABC04 ILLEKOVÁ, Emília. Kinetics of structural relaxation in glasses : Chapter 8. In *Thermal Analysis of Micro, Nano- and Non-Crystalline Materials : Transformation, Crystallization, Kinetics and Thermodynamics*. -

Dordrecht/Heidelberg/N.York/London : Springer, 2013, p. 175-194. ISBN 978-90-481-3149-5.

- ABC05      KLAPETEK, P. - LÁNYI, Štefan. Electrostatic Fields : Chapter 8. In KLAPETEK, Petr. *Quantitative Data Processing in Scanning Probe Microscopy : SPM Applications for Nanometrology.* - Amsterdam : Elsevier, 2013, p. 191-205. ISBN 978-1-4557-3058-2.
- ABC06      KORYTÁR, Dušan - VAGOVIČ, Patrik - FERRARI, C. - ŠIFFALOVIČ, Peter. X-ray crystal optics based on Germanium single crystals. In *Germanium : characteristics, sources and applications.* - New York : Nova Sci Publ., 2013, p. 105-140.
- ABC07      KRAJČÍ, Marián - HAFNER, J. Catalytic Properties of Five-Fold Surfaces of Quasicrystal Approximants : Chapter 36. In *Aperiodic Crystals.* - Dordrecht : Springer Science, 2013, p. 269-274. ISBN 978-94-007-6430-9.
- ABC08      LUBY, Štefan - LUBYOVÁ, Martina - ŠIFFALOVIČ, Peter - JERGEL, Matej - MAJKOVÁ, Eva. A Brief History of Nanoscience and Foresight in Nanotechnology : Chapter 4. In *Nanomaterials and Nanoarchitectures : A Complex Review of Current Hot Topics and their Applications proceedings of the NATO Advanced Study Institute on Nanomaterials and Nanoarchitectures : Proceedings of the NATO Advanced Study Institute on Nanomaterials and Nanoarchitectures.* - Dordrecht : Springer, 2015, p. 63-86. ISBN 978-94-017-9937-9. VEGA 2/0162/12, 2/0010/15, Center of Excellence of SAS "CESTA", contract III/2/2011.
- ABC09      LUBY, Štefan - ŠIFFALOVIČ, Peter - MAJKOVÁ, Eva - JERGEL, Matej - BENKOVIČOVÁ, Monika - RELLA, R. - MANERA, G. Nanotechnology in medicine- some benefits and threats. In *Nanomedizin : Interdisziplinäre Betrachtungen.* - Weimar : VDG Weimar, 2014, p. 115-129. ISBN 978-3-89739-782-8.
- ABC10      MORHÁČ, Miroslav - MATOUŠEK, Vladislav. Multidimensional Experimental Data Processing in Nuclear Physics : Chapter 1. In *Computer Physics.* - N.York : Nova Science Publishers, Inc., 2012, p. 1-236. ISBN 978-1-61324-790-7.
- ABC11      PRIPUTEN, T.Y. - LIU, T.Y. - ČERNÍČKOVÁ, I. - JANIČKOVIČ, Dušan - ŠVEC, Peter - ILLEKOVÁ, Emília - DRIENOVSKÝ, M. - ČÍČKA, R. - JANOVEC, J. Evolution of phases in selected Al-Co-Cu complex metallic alloys under near-equilibrium condition at 800-1150 celsia : Chapter 19. In *Aperiodic Crystals.* - Dordrecht : Springer Science, 2013, p. 141-147. ISBN 978-94-007-6430-9.
- ABC12      RYBÁR, Tomáš - ZIMAN, Mário - BUŽEK, Vladimír. Quantum Memory Channels in Quantum Optics. In *Mathematical Optics: Classical, Quantum, and Computational Methods.* - Boca Raton : CRC Press Inc., 2012, p. 533-552. ISBN 981-1-4398-6960-4.

- ABC13      ŠAMAJ, Ladislav - TRIZAC, E. The Wigner Strong-Coupling Approach : Chapter 8. In *Electrostatics of Soft and Disordered Matter*. - Stanford CA : Pan Stanford Publishing, 2014, p. 93-105. ISBN 978-981-4411-85-1.
- ABC14      ŠIFFALOVIČ, Peter - JERGEL, Matej - MAJKOVÁ, Eva. GISAXS- Probe of Buried Interfaces in Multilayered Thin Films. In *X-Ray Scattering*. - New York : Nova Science Publishers Inc., 2012, p. 1-54. ISBN 978-1-61324-326-8.
- ABC15      ŠIFFALOVIČ, Peter - MAJKOVÁ, Eva - JERGEL, Matej - VÉGSO, Karol - WEIS, Martin Jr. - LUBY, Štefan. Self-assembly of nanoparticles at solid and liquid surfaces : Chapter 20. In *Smart Nanoparticle Technology*. - Rijeka : InTech, 2012, p. 441-466. ISBN 978-953-51-0500-8.

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

- ADCA01      ADAMUŠČIN, Cyril - DUBNIČKA, Stanislav - DUBNIČKOVÁ, A.Z. New value of the proton charge root mean square radius. In *Progress in Particle and Nuclear Physics*, 2012, vol. 67, no. 2, p. 479-485. (2.614 - IF2011). (2012 - Current Contents). ISSN 0146-6410.
- ADCA02      ANDREYEV, A.N. - LIBERATI, V. - ANTALIC, S. - ACKERMANN, D. - BARZAKH, A. - BREE, N. - COCOLIOS, T.E. - DIRIKEN, J. - ELSEVIERS, J. - FEDOROV, D. - FINK, D. - FRANCHOO, S. - HEINZ, S. - HESSBERGER, F.P. - HOFMANN, S. - HUYSE, M. - IVANOV, O. - KHUYAGBAATAR, J. - KINDLER, B. - KOSTER, U. - LANE, J.F.W. - LOMMEL, B. - MARSH, B. - MOLKANOV, P. - NISHIO, K. - PAGE, R.D. - PATRONIS, N. - PAUWELS, D. - RADULOV, D. - SARO, S. - SELIVERSTOV, M. - SJODIN, M. - TSEKHANOVICH, I. - VAN DEN BERGH, P. - VAN DUPPEN, P. - VENHART, Martin - VESELSKÝ, Martin. Alpha-decay spectroscopy of the chain Ti-179(g) - Au-175(g) - Ir-171(g) - Re-167(m). In *Physical Review C*, 2013, vol. 87, no. 5, 054311. (3.715 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0556-2813.
- ADCA03      ANTLANGER, M. - MAZARS, M. - ŠAMAJ, Ladislav - KAHL, G. - TRIZAC, E. Taking one charge off a two-dimensional Wigner crystal. In *Molecular Physics*, 2014, vol. 112, no. 9-10, p. 1336-1349. (1.642 - IF2013). (2014 - Current Contents). ISSN 0026-8976.
- ADCA04      BALOG, Martin - YU, P. - QIAN, M. - BEHULOVA, M. - ŠVEC, Peter - CICKA, R. Nanoscaled Al-AIN composites consolidated by equal channel angular pressing (ECAP) of partially in situ nitrided Al powder. In *Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing*, 2013, vol. 562, p. 190-195. (2.108 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0921-5093.
- ADCA05      BAMIDELE, J. - BRNDIAR, Ján - GULANS, A. - KANTOROVICH, L. - ŠTICH, Ivan. Critical importance of van der Waals stabilization in strongly chemically bonded surfaces: Cu(110):0. In *Journal of Chemical Theory and Computation*, 2013, vol. 9, no. 12, p. 5578-5584. (5.389 - IF2012). (2013 - Current Contents). ISSN 1549-9618.

- ADCA06 BAMIDELE, J. - KINOSHITA, Y. - TURANSKÝ, Robert - LEE, S.H. - NAITOH, Y. - LI, Y.J. - SUGAWARA, Y. - ŠTICH, Ivan - KANTOROVICH, L. Chemical tip fingerprinting in scanning probe microscopy of an oxidized Cu(110) surface. In *Physical Review B*, 2012, vol. 86, no. 15, 155422. (3.691 - IF2011). (2012 - Current Contents, WOS, SCOPUS). ISSN 1098-0121.
- ADCA07 BAMIDELE, J. - KINOSHITA, Y. - TURANSKÝ, Robert - LEE, S.H. - NAITOH, Y. - LI, Y.J. - SUGUWARA, Y. - ŠTICH, Ivan - KANTOROVICH, L. Image formation and contrast inversion in noncontact atomic force microscopy imaging of oxidized Cu(110) surfaces. In *Physical Review B*, 2014, vol. 90, p. 035410. (3.664 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 1098-0121.
- ADCA08 BAMIDELE, J. - LEE, S.H. - TURANSKÝ, Robert - NAITOH, Y. - LI, Y.J. - SUGAWARA, Y. - ŠTICH, Ivan - KANTOROVICH, L. Vertical atomic manipulation with dynamic atomic-force microscopy without tip change via a multi-step mechanism. In *Nature Communications*, 2014, vol. 5, 4476. (10.742 - IF2013). (2014 - Current Contents). ISSN 2041-1723.
- ADCA09 BARDOSCIA, M. - NAGAJ, Daniel - SCARDICCHIO, A. Satisfiability-unsatisfiability transition in the adversarial satisfiability problem. In *Physical Review E. Statistical, Nonlinear and Soft Matter Physics*, 2014, vol. 89, 032128. (2.326 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 1539-3755.
- ADCA10 BARRIER, E. - FERNANDES, F.M.B. - BUJAN, M. - FEITERS, M.C. - FROIDEVAL, A. - GHIJSEN, J. - HASE, T. - HOUGH, M.A. - JERGEL, Matej - JIMENEZ, I. - KAJANDER, T. - KIKAS, A. - KOKKINIDIS, M. - KOVER, L. - LARSEN, H.B. - LAWSON, D.M. - LAWNICZAK-JABLONSKA, K. - MARIANI, C. - MIKULIK, P. - MONNIER, J. - MORERA, S. - MCGUINNESS, C. - MUELLER-BUSCHBAUM, P. - NIELSON, M.M. - PIETSCH, U. - TROMP, M. - SIMON, M. - STANGL, J. - ZANOTTI, G. The benefit of the European User Community from transnational access to national radiation facilities. In *Journal of Synchrotron Radiation*, 2014, vol. 21, p. 638-639. (3.022 - IF2013). (2014 - Current Contents). ISSN 0909-0495.
- ADCA11 BARTOSIK, M. - DANIEL, R. - MITTERRER, C. - MAŤKO, Igor - BURGHAMMER, M. - MAYRHOFER, P.H. - KECKES, J. Cross-sectional x-ray nanobeam diffraction analysis of a compositionally graded CrNx thin film. In *Thin Solid Films*, 2013, vol. 542, p. 1-4. (1.604 - IF2012). (2013 - Current Contents). ISSN 0040-6090.
- ADCA12 BARTOŠ, Josef - ISKROVÁ - MIKLOŠOVIČOVÁ, Martina - CANGIALOSI, D. - ALEGRÍA, A. - ŠAUŠA, Ondrej - ŠVAJDLENKOVÁ, Helena - ARBE, A. - KRIŠTIÁK, Jozef - COLMENERO, J. Positron annihilation and relaxation dynamics from dielectric spectroscopy: poly (vinylmethylether). In *Journal of Physics: Condensed Matter*, 2012, vol. 24, art.no.155104. (2.546 - IF2011). (2012 - Current Contents, WOS, SCOPUS). ISSN 0953-8984.

- ADCA13     BENKOVIČOVÁ, Monika - VÉGSO, Karol - ŠIFFALOVIČ, Peter - JERGEL, Matej - LUBY, Štefan - MAJKOVÁ, Eva. Preparation of gold nanoparticles for plasmonic applications. In *Thin Solid Films*, 2013, vol. 543, p. 138-141. (1.604 - IF2012). (2013 - Current Contents). ISSN 0040-6090.
- ADCA14     BERTHOLD, R. - MIHALKOVIČ, Marek - BURKHARDT, U. - PROTS, Yu. - AMARSANAA, A. - KREINER, G. Crystal structure, disorder and composition of the 2/1 approximant in the Al-Mg-Zn system revisited. In *Intermetallics*, 2014, vol. 53, p. 67-84. (2.119 - IF2013). (2014 - Current Contents). ISSN 0966-9795.
- ADCA15     BERTHOLD, R. - KREINER, G. - BURKHARDT, U. - HOFFMANN, S. - AUFFERMANN, G. - PROTS, Y. - DASHJAV, E. - AMARSANAA, A. - MIHALKOVIČ, Marek. Crystal structure and phase stability of the Phi phase in the Al-Mg-Zn system. In *Intermetallics*, 2013, vol. 32, p. 259-273. (1.857 - IF2012). (2013 - Current Contents). ISSN 0966-9795.
- ADCA16     BĚTÁK, Emil. Cluster emission for the pre-equilibrium exciton model with spin variables. In *Nuclear Data Sheets*, 2014, vol. 118, p. 284-286. (3.353 - IF2013). (2014 - Current Contents). ISSN 0090-3752.
- ADCA17     BISIO, A. - D'ARIANO, G.M. - PERINOTTI, P. - SEDLÁK, Michal. Memory cost of quantum protocols. In *Physical Review A*, 2012, vol. 85, no. 3, 032333. (2.878 - IF2011). (2012 - Current Contents). ISSN 1050-2947.
- ADCA18     BISIO, A. - D'ARIANO, G.M. - PERINOTTI, P. - SEDLÁK, Michal. Optimal processing of reversible quantum channels. In *Physics Letters A*, 2014, vol. 378, p. 1797-1808. (1.626 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0375-9601.
- ADCA19     BOUDA, A. - PIVOLUSKA, M. - PLESCH, Martin. Improving the Hadamard extractor. In *Theoretical Computer Science*, 2012, vol. 459, p. 69-76. (0.665 - IF2011). (2012 - Current Contents). ISSN 0304-3975.
- ADCA20     BOUDA, J. - PAWLOWSKI, M. - PIVOLUSKA, M. - PLESCH, Martin. Device-independent randomness extraction from an arbitrarily weak min-entropy source. In *Physical Review A*, 2014, vol. 90, no. 3, 032313. (2.991 - IF2013). (2014 - Current Contents). ISSN 1050-2947.
- ADCA21     BOUDA, J. - PIVOLUSKA, M. - PLESCH, Martin. Encryption with weakly random keys using a quantum ciphertext. In *Quantum Information and Computation*, 2012, vol. 12, no. 5-6, p. 395-403. (1.659 - IF2011). (2012 - Current Contents). ISSN 1533-7146.
- ADCA22     BOUDA, J. - PIVOLUSKA, M. - PLESCH, Martin - WILMOTT, C. Weak randomness seriously limits the security of quantum key distribution. In *Physical Review A*, 2012, vol. 86, 062308. (2.878 - IF2011). (2012 - Current Contents). ISSN 1050-2947.
- ADCA23     BRAVYI, S. - CAHA, Libor - MOVASSAGH, R. - NAGAJ, Daniel - SHOR, P. Criticality without frustration for quantum spin-1 chains. In *Physical Review*

*Letters*, 2012, vol. 109, no. 20, 207202. (7.370 - IF2011). (2012 - Current Contents, WOS, SCOPUS). ISSN 0031-9007.

- ADCA24     BRNDIAR, Ján - ŠTICH, Ivan. Van der Waals interaction energies of small fragments of P, As, Sb, S, Se and Te: Comparison of complete basis set limit CCSD(T) and DFT with approximate dispersion. In *Journal of Chemical Theory and Computation*, 2012, vol. 8, no. 7, p. 2301-2309. (5.215 - IF2011). (2012 - Current Contents). ISSN 1549-9618.
- ADCA25     BURŠÍKOVÁ, V. - HARTMANOVÁ, Mária - NAVRÁTIL, V. - MANSILLA, C. Influence of deposition conditions on electrical and mechanical properties of Sm<sub>2</sub>O<sub>3</sub> doped CeO<sub>2</sub> thin films prepared by EB-PVD (+IBAD) methods : Part 2. Indentation hardness and effective elastic modulus. In *Russian Journal of Electrochemistry*, 2013, vol. 49, no. 7, p. 619-627. (0.501 - IF2012). (2013 - Current Contents). ISSN 1023-1935.
- ADCA26     BURŠÍKOVÁ, V. - HARTMANOVÁ, Mária - NAVRÁTIL, V. - MANSILLA, C. Influence of deposition conditions on electrical and mechanical properties of Sm<sub>2</sub>O<sub>3</sub>-doped CeO<sub>2</sub> thin films prepared by EB-PVD (+IBAD) methods. Relationship between investigated film and substrate at indentation. In *Russian Journal of Electrochemistry*, 2015, vol. 51, no. 6, p. 495-502. (0.762 - IF2014). (2015 - Current Contents). ISSN 1023-1935.
- ADCA27     BUTVIN, Pavol - BUTVINOVÁ, Beata - KUZMINSKI, M. - ŚLAWSKA-WAZNIEWSKA, A. - SITEK, J. - MAŤKO, Igor - KADLEČÍKOVÁ, M. Effect of surfaces of FeNbCuBSiP ribbons. In *Acta Physica Polonica A*, 2014, vol. 126, no. 1, p. 152-153. (0.604 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 1898-794X.
- ADCA28     BUTVIN, Pavol - JANOŠEK, M. - RIPKA, P. - BUTVINOVÁ, Beata - ŠVEC, Peter - KUZMINSKI, M. - ŠVEC, Peter Jr. - JANIČKOVIČ, Dušan - VLASÁK, Gabriel. Field annealed closed- path fluxgate sensors made of metallic-glass ribbons. In *Sensors and Actuators A*, 2012, vol. 184, p. 72-77. (3.898 - IF2011). (2012 - Current Contents). ISSN 0925-4005.
- ADCA29     BUTVINOVÁ, Beata - BUTVIN, Pavol - KUZMINSKI, M. - SLAWSKA-WANIEWSKA, A. - MAŤKO, Igor - ŠVEC, Peter - ŠVEC, Peter Jr. - KADLEČÍKOVÁ, M. - HUBEŇÁK, M. - JANIČKOVIČ, Dušan. Effects of grain growth blocking in annealed metalloid-poor Fe-M-Cu-B-Si ribbons (M= Nb, Mo, V). In *Journal of Alloys and Compounds*, 2015, vol. 648, p. 527-533. (2.999 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0925-8388.
- ADCA30     BUTVINOVÁ, Beata - BUTVIN, Pavol - KUZMINSKI, M. - KADLEČÍKOVÁ, M. - ŚLAWSKA-WANIEWSKA, A. Indication of intrinsic macroscopic forces affecting magnetic properties of Fe-Nb/Mo-Cu-B-Si ribbons. In *IEEE Transactions on Magnetics*, 2012, vol. 48, no. 4, p. 1340-1343. (1.363 - IF2011). (2012 - Current Contents). ISSN 0018-9464.
- ADCA31     BUTVINOVÁ, Beata - BUTVIN, Pavol - MAŤKO, Igor - ŠVEC, Peter - CHROMČÍKOVÁ, Mária - SITEK, J. - DEKAN, J. Magnetic and surface properties

of high-induction nanocrystalline Fe-Nb-Cu-B/P-Si ribbons. In *IEEE Transactions on Magnetics*, 2014, vol. 50, no. 4, 2002904. (1.213 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0018-9464.

- ADCA32     BUTVINOVÁ, Beata - BUTVIN, Pavol - MAŤKO, Igor - KADLEČÍKOVÁ, M. - KUZMINSKI, M. - ŠVEC, Peter Jr.. Surface mediated impact of thermal treatment ambience on magnetic properties of Fe-Nb-Cu-B-Si nanocrystalline ribbons. In *Applied Surface Science*, 2014, vol. 301, p. 119-125. (2.538 - IF2013). (2014 - Current Contents). ISSN 0169-4332.
- ADCA33     BUŽEK, Vladimír - RAPČAN, Peter - RAU, J. - ZIMAN, Mário. Direct estimation of decoherence rates. In *Physical Review A*, 2012, vol. 86, 052109. (2.878 - IF2011). (2012 - Current Contents). ISSN 1050-2947.
- ADCA34     CAN, H. - ŠVEC, Peter Jr. - TANRISEVEN, S. - BYDZOVSKY, J. - BIRLIKSEVEN, C. - SOZERI, H. - ŠVEC, Peter - TOPAL, U. Optimizing the sensing performance of a single-rod fluxgate magnetometer using thin magnetic wires. In *Measurement Science and Technology*, 2015, vol. 26, 115102. (1.433 - IF2014). (2015 - Current Contents). ISSN 0957-0233.
- ADCA35     CAPIK, Marek - ŠVEC, Peter Jr. - MARCIN, Jozef - KOVÁČ, Jozef - SOPKO, Martin - JANIČKOVIČ, Dušan - ŠVEC, Peter - ŠKORVÁNEK, Ivan. Effect of Temperature on Magnetization Processes in Amorphous Rapidly Solidified FeSiB/CoSiB Bilayer Ribbons. In *Acta Physica Polonica A*, 2014, vol. 126, no. 1, p. 120-121. (0.604 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 1898-794X.
- ADCA36     CAPONE, S. - MANERA, M.G. - TAURINO, A. - SICILIANO, P. - RELLA, R. - LUBY, Štefan - BENKOVIČOVÁ, Monika - ŠIFFALOVIČ, Peter - MAJKOVÁ, Eva. Fe<sub>3</sub>O<sub>4</sub>/gamma-Fe<sub>2</sub>O<sub>3</sub> nanoparticle multilayers deposited by the Langmuir-Blodgett technique for gas sensors application. In *Langmuir*, 2014, vol. 30, no. 4, p. 1190-1197. (4.384 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0743-7463.
- ADCA37     CIZEK, J. - LUKAC, F. - PROCHAZKA, I. - KUZEL, R. - JIRASKOVA, Y. - JANIČKOVIČ, Dušan - ANWAND, W. - BRAUER, G. Characterization of quenched-in vacancies in Fe-Al alloys. In *Physica B: Condensed Matter*, 2012, vol. 407, no. 14, p. 2659-2664. (1.063 - IF2011). (2012 - Current Contents). ISSN 0921-4526.
- ADCA38     ČAVOJSKÝ, Miroslav - BALOG, Martin - DVOŘÁK, Jiří - ILLEKOVÁ, Emília - ŠVEC, Peter - KRÍŽIK, Peter - JANIČKOVIČ, Dušan - SIMANČÍK, František. Microstructure and properties of extruded rapidly solidified AlCr<sub>4.7</sub>Fe<sub>1.1</sub>Si<sub>0.3</sub> (at.%) alloys. In *Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing*, 2012, vol. 549, p. 233-241. (2.003 - IF2011). (2012 - Current Contents, SCOPUS, WOS). ISSN 0921-5093.
- ADCA39     ČERNIČKOVA, I. - ŠVEC, Peter - WATANABE, S. - ČAPLOVIČ, L. - MIHALKOVIČ, Marek - KOLESÁR, V. - PRIPUTEN, P. - BEDNARČÍK, J.



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ADMB51     ŠKORVÁNEK, Ivan - MARCIN, Jozef - KOVÁČ, J. - ŠVEC, Peter - LUPU, N. - CHIRIAC, H. Tuning of soft magnetic properties in FeCo- and FeNi- based amorphous and nanocrystalline alloys by thermal processing in external magnetic field. In *Materials Science Forum*, 2014, vol. 783-786, p. 1937-1942. (2014 - WOS, SCOPUS). ISSN 0255-5476.

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- AFA02     EUCHNER, H. - YAMADA, T. - TAMURA, R. - ISHIMASA, T. - ROLS, S. - SCHOBER, H. - OLLIVIER, J. - MIHALKOVIČ, Marek - DE BOISSIEU, M.  
Tetrahedron dynamics in Tsai-type quasicrystals and their approximants. In *ICQ12-12th International Conference on Quasicrystals : Book of Abstracts*. - Krakow : AGH University, 2013, i-18. ISBN 978-83-934620-6-3.
- AFA03     HENLEY, Ch.L. - CHOI, Woosong - MIHALKOVIČ, Marek. Orientational interaction and ordering transitions of tetra in the Cd6Ca approximant. In *ICQ12-12th International Conference on Quasicrystals : Book of Abstracts*. - Krakow : AGH University, 2013, i-19. ISBN 978-83-934620-6-3.
- AFA04     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*

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AFA07        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.

AFA08        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.

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AFB02        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.

AFB03        GMUCOVÁ, Katarína - NÁDAŽDY, Vojtech - WEIS, Martin Jr. - JAKABOVIČ, J. - FILO, J. - PUTALA, M. Formation of water related defect states in organic semiconductors. In *Proceedings of the 19th Conference of Slovak Physicists*, September 3-6, 2012, Prešov. - Košice : Slovak Physical Society, 2013, p. 45-46. ISBN 978-80-970625-8-3.



- AFB04 GMUCOVÁ, Katarína - NÁDAŽDY, Vojtech - VOJTKO, Andrej - KOTLÁR, Mário - MAJKOVÁ, Eva. Investigation of ion diffusion towards plasmonic surfaces. In *Proceedings of the 19th International Conference on Applied Physics of Condensed Matter : APCOM 2013*. Eds. J.Vajda, I.Jamnický. - Bratislava : Nakladateľstvo STU Bratislava, 2013, p. 229-232. ISBN 978-80-227-3956-6.
- AFB05 HOŠKO, Jozef - JANOTOVÁ, Irena - ŠVEC, Peter Jr. - MAŤKO, Igor - JANIČKOVIČ, Dušan - ŠVEC, Peter. Influence of Ga addition on structure, thermal and magnetic properties of CoFeBSiNb metallic glasses. In *ASDAM 2012- The Ninth International Conference on Advanced Semiconductor Devices and Microsystems, November 11-15, 2012, Smolenice, Slovakia : Conference Proceedings*. Eds. Š. Haščík, J. Osvald. - Piscataway : IEEE, 2012, p. 295-298. ISBN 978-1-4673-1195-3.
- AFB06 HOŠKO, Jozef - JANOTOVÁ, Irena - ŠVEC, Peter Jr. - MAŤKO, Igor - JANIČKOVIČ, Dušan - ŠVEC, Peter. Microstructure analysis of COFEBSINB metallic glasses with a various geometry prepared by planar flow casting and suction casting methods. 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. 114-117. ISBN 978-80-227-3720-3.
- AFB07 HUDEC, Ján - FIDRÍKOVÁ, Danica - VRETENÁR, Viliam - DIEŠKA, P. - KUBIČÁR, Ľudovít. Variations of heat and moisture transport through walls of the St. Martin Cathedral tower in Bratislava. In *Thermophysics 2013 - Conference Proceedings : 18th International Meeting of Thermophysical Society, November 13-15, 2013, Podkylava, Slovak Republik*. Editor Oldřich Zmeškal. - Bratislava : Institute of Physics, Slovak Academy of Science in Bratislava, 2013, p. 229-233. ISBN 978-80-214-4801-4.
- AFB08 IVANČO, Ján. Intrinsic work function of molecular films. In *Proceedings of 17th Conference of Czech and Slovak Physicists , September 5-8, 2011, Žilina.* - Košice : Slovak Physical Society, 2012, p. 39-40. ISBN 978-80-970625-4-5.
- AFB09 JANOTOVÁ, Irena - HOŠKO, Jozef - ŠVEC, Peter - MAŤKO, Igor - JANIČKOVIČ, Dušan - ŠVEC, Peter Jr.. Structure of Fe-B-P based metallic glasses. 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. 345-348. ISBN 978-80-227-3720-3.
- AFB10 JERSEL, Matej - ŠIFFALOVIČ, Peter - VÉGSO, Karol - BENKOVIČOVÁ, Monika - MAJKOVÁ, Eva - NYGARD, K. - KONOVALOV, O. Formation of nanoparticle arrays by self- assembly. 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-25. ISBN 978-80-263-0511-8.
- AFB11 KRAJČÍ, Marián - HAFNER, J. Surfaces of complex intermetallic compounds as selective hydrogenation catalysts. In *NANOVED 2013 & NANO INFO DAY : 6th International Conference on Nanosciences, Nanotechnologies, Nanomaterials and*

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- AFB12      LUBY, Štefan - ŠIFFALOVÍČ, Peter - BENKOVIČOVÁ, Monika - MAJKOVÁ, Eva - JERGEL, Matej - IVANČO, Ján - RELLA, R. - MANERA, M.G. Gas sensing properties and electrical resistance of Langmuir-Blodgett iron oxide nanoparticle arrays. In *ASDAM 2012- The Ninth International Conference on Advanced Semiconductor Devices and Microsystems, November 11-15, 2012, Smolenice, Slovakia : Conference Proceedings*. Eds. Š. Haščík, J. Osvald. - Piscataway : IEEE, 2012, p. 175-178. ISBN 978-1-4673-1195-3.
- AFB13      MAJKOVÁ, Eva - HODAS, Martin - ŠIFFALOVÍČ, Peter - HALAHOVETS, Yuriy - PELLETTA, Marco - VĚGSO, Karol - JERGEL, Matej. In-situ GISAXS diagnostics of nanofilm and ultrashort period multilayer growth. In *Proceedings of ADEPT: 3rd International Conference on Advances in Electronic and Photonic Technologies*. Eds. D. Pudiš, I. Lettrichová, J. Kováč, jr. - Žilina : Univ. Žilina, 2015, p. 61- 62. ISBN 978-80-554-1033-3.
- AFB14      MAŤKO, Igor - ILLEKOVÁ, Emília - ŠVEC, Peter - ŠVEC, Peter Jr. - JANIČKOVIČ, Dušan. Microstructural study of the crystallization of amorphous Fe-Sn-B ribbons. In *Mikroskopie 2012, Duben 17-18, Kongresové centrum SÚZA, Bratislava, SK.* - 2012, p. 50.
- AFB15      MAŤKO, Igor - ŠVEC, Peter Jr. - ŠVEC, Peter - JANIČKOVIČ, Dušan - STOICA, M. - GEMMING, T. Preparation rapidly quenched bilayer ribbons, their properties and interface structure. 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. 145-148. ISBN 978-80-227-3720-3.
- AFB16      PETRÝDESOVÁ, L. - ŠIMKOVÁ, I. - EKKERTO VÁ, P. - DURMEKOVÁ, T. - BOHÁČ, Vlastimil - FIDRÍKOVÁ, Danica - VRETENÁR, Viliam. Monitoring of temperature-moisture regime in different depth levels of rock mass, Brhlovce dwellings case study. In *Thermophysics 2013 - Conference Proceedings : 18th International Meeting of Thermophysical Society, November 13-15, 2013, Podkylava, Slovak Republic*. Editor Oldřich Zmeškal. - Bratislava : Institute of Physics, Slovak Academy of Science in Bratislava, 2013, p. 234-341. ISBN 978-80-214-4801-4.
- AFB17      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.
- AFB18      ŠVEC, Peter Jr. - ZIGO, Juraj - PINČÍK, Emil - BALOG, M. - ŠVEC, Peter. Phase and orientation mapping of fine-grained structures by precession electron diffraction. In *Proceedings of 8th Solid State Surfaces and Interfaces : Extended*

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AFB19        ŠVEC, Peter Jr. - JANOTOVÁ, Irena - HOŠKO, Jozef - KEPAPTSOGLU, D.M. - MAŤKO, Igor - JANIČKOVIČ, Dušan - ŠVEC, Peter. Phase mapping of iron-based rapidly quenched alloys using precession electron diffraction. In *Proceedings of the 19th International Conference on Applied Physics of Condensed Matter : APCOM 2013*. Eds. J.Vajda, I.Jamnický. - Bratislava : Nakladateľstvo STU Bratislava, 2013, p. 28-33. ISBN 978-80-227-3956-6.

AFB20        ŠVEC, Peter Jr. - ŠVEC, Peter - MAŤKO, Igor. Precession electron diffraction of fine-grained structures. 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-28. ISBN 978-80-263-0511-8.

AFB21        ŠVEC, Peter Jr. - ŠVEC, Peter - ŠKORVÁNEK, Ivan - HOŠKO, Jozef - VLASÁK, Gabriel. Structure and magnetic properties of Fe-Ni-Nb-B systems. In *Mikroskopie 2012, Duben 17-18, Kongresové centrum SÚZA, Bratislava, SK*. - 2012, p. 66.

AFB22        VOJTKO, Andrej - BENKOVIČOVÁ, Monika - JERGEL, Matej - KOTLÁR, Mário - HALAHOVETS, Yuriy - ŠIFFALOVICH, Peter - NÁDAŽDY, Vojtech - MAJKOVÁ, Eva. Application of plasmonic nanoparticles in organic photovoltaic structures. In *Proceedings of ADEPT : 1st International Conference on Advances in Electronic and Photonic Technologies*. Eds. D. Pudiš et al. - Žilina : University of Žilina, 2013, p. 24-27. ISBN 978-80-554-0689-3.

**AFBA Published invited papers from international scientific conferences in Slovakia**

AFBA01        HODAS, M. - ŠIFFALOVICH, Peter - JERGEL, Matej - HALAHOVETS, Yuriy - VÉGSO, Karol - MAJKOVÁ, Eva. Ion beam deposition of advanced multilayer x-ray mirrors. In *Proceedings of ADEPT : 1st International Conference on Advances in Electronic and Photonic Technologies, June 2-5, 2013, Nový Smokovec, Slovakia*. Eds. D. Pudiš et al. - Žilina : University of Žilina, 2013, p. 157-160. ISBN 978-80-554-0689-3.

AFBA02        LUBY, Štefan - BENKOVIČOVÁ, Monika - JERGEL, Matej - ŠIFFALOVICH, Peter - MAJKOVÁ, Eva - RELLA, R. - CAPONE, S. - MANERA, M.G. Electrical conductivity in Fe<sub>2</sub>O<sub>3</sub> and CoFe<sub>2</sub>O<sub>4</sub> nanoparticle arrays and their application in gas sensing. In *Proceedings of the 19th International Conference on Applied Physics of Condensed Matter : APCOM 2013*. Eds. J.Vajda, I.Jamnický. - Bratislava : Nakladateľstvo STU Bratislava, 2013, p. 11-14. ISBN 978-80-227-3956-6.

AFBA03        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.

## **AFC Published papers from foreign scientific conferences**

- AFC01      ADAMUŠČIN, Cyril - DUBNIČKA, Stanislav - DUBNIČKOVÁ, A.Z.  
Polarization effects in case of very low energy hadron-hadron scattering. In *Proceedings of Science (PoS) : The European Physical Society Conference on High Energy Physics (EPS-HEP2015)*. - Trieste : SISSA, 2015, 451. ISSN 1824-8039.
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