

## Publikácie / Publications

Institute: SAVMER - Ústav merania SAV  
Year of publication 2016~2021

### Statistics publication category

AAA	Scientific monographs published abroad	2
ABC	Chapters in scientific monographs published abroad	6
ACB	Academic/university textbooks published in Slovak publishing houses	1
ADCA	Scientific papers in foreign journals registered in Current Contents Connect with IF (impacted)	134
ADCB	Scientific papers in foreign journals registered in Current Contents Connect without IF (non-impacted)	1
ADDA	Scientific papers in domestic journals registered in Current Contents Connect with IF (impacted)	12
ADEB	Scientific papers in other foreign journals not registered in Current Contents Connect without IF (non-impacted)	15
ADMA	Scientific papers in foreign impacted journals registered in Web of Sciences or Scopus	18
ADMB	Scientific papers in foreign non-impacted journals registered in Web of Sciences or Scopus	38
ADNA	Scientific papers in domestic impacted journals registered in Web of Sciences or Scopus	6
ADNB	Scientific papers in domestic non-impacted journals registered in Web of Sciences or Scopus	59
AECA	Scientific papers in foreign peer-reviewed proceedings and shorter chapters in foreign scientific monographs or academic/university textbooks	2
AEDA	Scientific papers in domestic peer-reviewed proceedings and shorter chapters in domestic scientific monographs or academic/university textbooks	1
AEMA	Abstracts of scientific papers published in foreign impacted journals registered in Web of Science Core Collection or Scopus	5
AFA	Published invited papers from foreign scientific conferences	1
AFC	Published papers from foreign scientific conferences	20
AFD	Published papers from domestic scientific conferences	16
AFE	Abstracts of invited papers from foreign conferences	2
AFG	Abstracts of papers from foreign conferences	37
AFH	Abstracts of papers from domestic conferences	16
AFL	Domestic conferences posters	3
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,	2

	breeder's certificate applications	
BDE	Professional papers in other foreign journals (not registered in CCC)	1
BDF	Professional papers in other domestic journals (not registered in CCC)	16
BEE	Professional papers in foreign proceedings (conference/non-conference; peer-reviewed/non-peer-reviewed)	2
BEF	Professional papers in domestic proceedings (conference/non-conference; peer-reviewed/non-peer-reviewed)	1
DAI	Dissertations and habilitation theses	2
FAI	Editorial work on book publications (bibliographies, encyclopedias, catalogues, dictionaries, collective publications/proceedings, atlases ...)	3
GHG	Works published on the internet	1
GII	Other publications and documents which is not possible to categorize into classes/categories mentioned above	43
<b>Count</b>		<b>466</b>

#### **AAA Scientific monographs published abroad**

AAA01 CAPEK, Ignác. *Nanocomposite Structures and Dispersions : Second Edition*. Elsevier, 2019. 458 p. Dostupné na: <https://doi.org/10.1016/C2015-0-00616-5>. ISBN 978-0-444-63748-2

AAA02 CAPEK, Ignác. *Noble Metal Nanoparticles : Preparation, Composite Nanostructures, Biodecoration and Collective Properties*. Springer, 2017. xvii, 554 p. Dostupné na: [https://doi.org/10.1007/978-4-431-56556-7\\_2](https://doi.org/10.1007/978-4-431-56556-7_2). ISBN 978-4-431-56554-3

#### **ABC Chapters in scientific monographs published abroad**

ABC01 GRENDÁR, Marián\*\* - LODERER, D. - ŠVECOVÁ, I. - LAUČEKOVÁ, Z. - HRTÁNKOVÁ, M. - HORNÁKOVÁ, A. - NAGY, B. - ŽÚBOR, P. - LASABOVÁ, Z. - DANKO, J. Non-invasive prenatal screening: From counting chromosomes to estimation of the degree of mosaicism. In *Advances in Medicine and Biology*. Vol. 140. - Nova Science Publishers, 2019, p. 85-126. ISBN 978-1-53615-335-4.

ABC02 PŘIBIL, Jiří\*\* - PŘIBILOVÁ, Anna - FROLLO, Ivan. Analysis of energy relations between noise and vibration produced by a low-field MRI device. In *Noise and Vibration Control : From Theory to Practice*. - IntechOpen, 2019, p. 89-110. ISBN 978-1-78984-771-0. Dostupné na internete: <<https://www.intechopen.com/books/noise-and-vibration-control-from-theory-to-practice/analysis-of-energy-relations-between-noise-and-vibration-produced-by-a-low-field-mri-device>>

ABC03 PŘIBIL, Jiří - PŘIBILOVÁ, Anna - FROLLO, Ivan. Analysis of acoustic noise and its suppression in speech recorded during scanning in the open-air MRI. In *Advances in Noise Analysis, Mitigation and Control*. - InTech, 2016, p. 205-228. ISBN 978-953-51-4762-6. Dostupné na: <https://doi.org/10.5772/64628>

- ABC04      PŘIBIL, Jiří - PŘIBILOVÁ, Anna. Comparison of text-independent original speaker recognition from emotionally converted speech. In *Recent Advances in Nonlinear Speech Processing*. - Springer, 2016, sIST 48, P. 137-149. ISBN 978-3-319-28107-0. ISSN 2190-3018. Dostupné na: [https://doi.org/10.1007/978-3-319-28109-4\\_14](https://doi.org/10.1007/978-3-319-28109-4_14)
- ABC05      VALKOVIČ, Ladislav - KLEPOCHOVÁ, R. - KRŠŠÁK, M.\*\*. Multinuclear magnetic resonance spectroscopy of human skeletal muscle metabolism in training and disease. In *Muscle Cell and Tissue : Current Status of Research Field*. - London : IntechOpen, 2018, p. 33-62. ISBN 978-1-78984-006-3. Dostupné na: <https://doi.org/10.5772/intechopen.77107>
- ABC06      WITKOVSKÝ, Viktor - WIMMER, Gejza\*. Generalized polynomial comparative calibration: Parameter estimation and applications. In *Advances in Measurements and Instrumentation : Reviews, Vol. 1*. - International Frequency Sensor Association (IFSA) Publishing, 2018, p. 15-52. ISBN 978-84-09-07321-4.

#### **ACB Academic/university textbooks published in Slovak publishing houses**

- ACB01      PALENČÁR, R. - WIMMER, Gejza - PALENČÁR, J. - WITKOVSKÝ, Viktor. *Navrhovanie a vyhodnocovanie meraní* [Design and Evaluation of Measurements]. Recenzenti: M. Dovica, D. Janáčová, J. Markovič. 1. vydanie. Bratislava : Slovenská technická univerzita v Bratislave, 2021. 160 s. ISBN 978-80-227-5080-6

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

- ADCA01      ANDRIS, Peter\*\* - EMERY, E.F. - FROLLO, Ivan. Analysis of NMR spectrometer receiver noise figure. In *Mathematical Problems in Engineering*, 2019, vol. 2019, art. no. 1083706. (2018: 1.179 - IF, Q3 - JCR, 0.270 - SJR, Q2 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 1024-123X. Dostupné na: <https://doi.org/10.1155/2019/1083706>
- ADCA02      ANDRIS, Peter - FROLLO, Ivan. Noise and interference in measured NMR images. In *Measurement*, 2016, vol. 77, p. 29-33. (2015: 1.742 - IF, Q2 - JCR, 0.662 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0263-2241. Dostupné na: <https://doi.org/10.1016/j.measurement.2015.09.003>
- ADCA03      APPRICH, S.\*\* - SCHREINER, M. - SZOMOLÁNYI, Pavoľ - WELSCH, G.H. - KOLLER, U.K. - WEBER, M. - WINDHAGER, R. - TRATTNIG, S. Potential predictive value of axial T2 mapping at 3 Tesla MRI in patients with untreated patellar cartilage defects over a mean follow-up of four years. In *Osteoarthritis and Cartilage*, 2020, vol. 28, no. 2, p. 215-222. (2019: 4.793 - IF, Q1 - JCR, 1.828 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 1063-4584. Dostupné na: <https://doi.org/10.1016/j.joca.2019.10.009>
- ADCA04      APPS, A. - VALKOVIČ, Ladislav - PETERZAN, M. - LAU, J.Y.C. - HUNDERTMARK, M. - CLARKE, W. - TUNNICLIFFE, E.M. - ELLIS, J. - TYLER, D.J. - NEUBAUER, S. - RIDER, O. - RODGERS, C.T.\* - SCHMID, A.I.\*\*. Quantifying the effect of dobutamine stress on myocardial Pi and pH in

healthy volunteers: A 31P MRS study at 7T. In *Magnetic Resonance in Medicine*, 2021, vol. 85, no. 3, p. 1147-1159. (2020: 4.668 - IF, Q1 - JCR, 1.696 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 0740-3194. Dostupné na: <https://doi.org/10.1002/mrm.28494>

ADCA05 BACHAROVA, L. - SZATHMÁRY, Vavrinec - ŠVEHLÍKOVÁ, Jana - MATEASIK, A. - TYŠLER, Milan. QRS complex waveform indicators of ventricular activation slowing: Simulation studies. In *Journal of Electrocardiology*, 2016, vol. 49, no. 6, p. 790-793. (2015: 1.290 - IF, Q4 - JCR, 0.559 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0022-0736. Dostupné na: <https://doi.org/10.1016/j.jelectrocard.2016.07.032>

ADCA06 BACHAROVA, L. - SZATHMÁRY, Vavrinec - ŠVEHLÍKOVÁ, Jana - MATEASIK, A. - GYHAGEN, J. - TYŠLER, Milan. The effect of conduction velocity slowing in left ventricular midwall on the QRS complex morphology: A simulation study. In *Journal of Electrocardiology*, 2016, vol. 49, no. 2, p. 164-170. (2015: 1.290 - IF, Q4 - JCR, 0.559 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0022-0736. Dostupné na: <https://doi.org/10.1016/j.jelectrocard.2015.12.009>

ADCA07 BALEJČÍKOVÁ, Lucia - STRBAK, O. - BAČIAK, L. - KOVÁČ, Jozef - MASÁROVÁ-KOZELOVÁ, Marta - KRAFČÍK, Andrej - KOPČANSKÝ, Peter - DOBROTA, D. - FROLLO, Ivan. Differentiation of native and reconstructed ferritin using the MRI gradient echo pulse sequence. In *Acta Physica Polonica A*, 2017, vol. 131, no. 4, p. 1093-1095. (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.131.1093>

ADCA08 BALEJČÍKOVÁ, Lucia - STRBAK, O. - BAČIAK, L. - KOVÁČ, Jozef - MASÁROVÁ-KOZELOVÁ, Marta - KRAFČÍK, Andrej - FROLLO, Ivan - DOBROTA, D. - KOPČANSKÝ, Peter. Magnetic resonance imaging of reconstructed ferritin as an iron-induced pathological model system. In *Journal of Magnetism and Magnetic Materials*, 2017, vol. 427, p. 127-132. (2016: 2.630 - IF, Q2 - JCR, 0.699 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2016.11.019>

ADCA09 BEAR, L.\*\* - SERINAGA OGLU, Y. - GOOD, W. - ŠVEHLÍKOVÁ, Jana - COLL-FONT, J. - VAN DAM, E. - MACLEOD, R. The impact of torso signal processing on noninvasive electrocardiographic imaging reconstructions. In *IEEE Transactions on Biomedical Engineering*, 2021, vol. 68, no. 2, p. 436-447. (2020: 4.538 - IF, Q2 - JCR, 1.148 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 0018-9294. Dostupné na: <https://doi.org/10.1109/TBME.2020.3003465>

ADCA10 BERETA, Martin - TEPLAN, Michal - CHAFAI, D. - RADIL, R. - CIFRA, M.\*\*. Biological autoluminescence as a noninvasive monitoring tool for chemical and physical modulation of oxidation in yeast cell culture. In *Scientific Reports*, 2021, vol. 11, art. no. 328. (2020: 4.380 - IF, Q1 - JCR, 1.240 - SJR, Q1 - SJR,

Current Contents - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-020-79668-2>

- ADCA11 BRISTELA, M.\*\* - SKOLKA, A. - EDER, J. - SZOMOLÁNYI, Pavol - WEBER, M. - PIEHLINGER, E. - SCHMID-SCHWAP, M. - TRATTNIG, S. T2 mapping with 3.0 T MRI of the temporomandibular joint disc of patients with disc dislocation. In *Magnetic Resonance Imaging*, 2019, vol. 58, p. 125-134. (2018: 2.112 - IF, Q3 - JCR, 0.977 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0730-725X. Dostupné na: <https://doi.org/10.1016/j.mri.2019.02.002>
- ADCA12 BURRAGE, M.K.\* - HUNDERTMARK, M.\* - VALKOVIČ, Ladislav - WATSON, W.D. - RAYNER, J. - SABHARWAL, N. - FERREIRA, V.M. - NEUBAUER, S. - MILLER, J.J.\* - RIDER, O.\* - LEWIS, A.\*\*. Energetic basis for exercise-induced pulmonary congestion in heart failure with preserved ejection fraction. In *Circulation*, 2021, vol. 144, no. 21, p. 1664-1678. (2020: 29.690 - IF, Q1 - JCR, 7.795 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 0009-7322. Dostupné na: <https://doi.org/10.1161/CIRCULATIONAHA.121.054858>
- ADCA13 CAPEK, Ignác. Kinetic study of acrylamide photopolymerization in the presence of silver salt. In *Polymer Bulletin*, 2017, vol. 74, no. 11, p. 4577-4593. (2016: 1.430 - IF, Q3 - JCR, 0.429 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0170-0839. Dostupné na: <https://doi.org/10.1007/s00289-017-1973-7>
- ADCA14 CAPEK, Ignác. Photopolymerization of acrylamide in the very low monomer concentration range. In *Designed Monomers and Polymers*, 2016, vol. 19, no. 4, p. 290-296. (2015: 1.497 - IF, Q3 - JCR, 0.409 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 1385-772X. Dostupné na: <https://doi.org/10.1080/15685551.2016.1152539>
- ADCA15 CAPEK, Ignác. Polymer decorated gold nanoparticles in nanomedicine conjugates. In *Advances in colloid and interface science*, 2017, vol. 249, p. 386-399. (2016: 7.223 - IF, Q1 - JCR, 2.155 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0001-8686. Dostupné na: <https://doi.org/10.1016/j.cis.2017.01.007>
- ADCA16 CIGÁŇ, Alexander - LOBOTKA, Peter - DVUREČENSKIJ, Andrej - ŠKRÁTEK, Martin - RADNÓCZI, G. - MAJEROVÁ, Melinda - CZIGÁNY, Zs. - MAŇKA, Ján\*\* - VÁVRA, Ivo - MÍČUŠÍK, Matej. Characterization and magnetic properties of nickel and nickel-iron nanoparticle colloidal suspensions in imidazolium-based ionic liquids prepared by magnetron sputtering. In *Journal of Alloys and Compounds*, 2018, vol. 768, p. 625-634. (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.2018.07.205>
- ADCA17 COUFAL, D. - JAKUBÍK, Jozef - JAJCAY, N. - HLINKA, J. - KRAKOVSKÁ, Anna - PALUŠ, M. Detection of coupling delay: A problem not yet

solved. In *Chaos*, 2017, vol. 27, no. 8, p. 083109. (2016: 2.283 - IF, Q1 - JCR, 0.780 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 1054-1500. Dostupné na: <https://doi.org/10.1063/1.4997757>

- ADCA18 ČERŇANSKÝ, A. - YARYHIN, O. - CICEKOVÁ, J. - WERNEBURG, I. - HAIN, Miroslav - KLEMBARA, J.\*\*. Vertebral comparative anatomy and morphological differences in anguine lizards with a special reference to *Pseudopus apodus*. In *The Anatomical Record : Advances in Integrative Anatomy and Evolutionary Biology*, 2019, vol. 302, no. 2, p. 232-257. (2018: 1.329 - IF, Q3 - JCR, 0.525 - SJR, Q2 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 1932-8486. Dostupné na: <https://doi.org/10.1002/ar.23944>
- ADCA19 DING, B.\*\* - PETERZAN, M. - MÓZES, F.E. - RIDER, O. - VALKOVIČ, Ladislav - RODGERS, C.T. Water-suppression cycling 3-T cardiac 1 H-MRS detects altered creatine and choline in patients with aortic or mitral stenosis. In *NMR in Biomedicine*, 2021, vol. 34, no. 7, e4513. (2020: 4.044 - IF, Q1 - JCR, 1.278 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 0952-3480. Dostupné na: <https://doi.org/10.1002/nbm.4513>
- ADCA20 DVUREČENSKIJ, Andrej - CIGÁŇ, Alexander - VAN DRIESSCHE, I. - ŠKRÁTEK, Martin - MAJEROVÁ, Melinda - BRUNEEL, E. - MAŇKA, Ján. Superconducting and magnetic properties of Sn-doped EuBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> compound. In *Acta Physica Polonica A*, 2017, vol. 131, no. 4, p. 1045-1047. (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.131.1045>
- ADCA21 EDER, J.\*\* - SZOMOLÁNYI, Pavol - SCHMID-SCHWAP, M. - BRISTELA, M. - SKOLKA, A. - PITTSCHIELER, E. - PIEHSLINGER, E. - TRATTNIG, S. Early diagnosis of degenerative changes in the articular/fibrocartilaginous disc of the temporomandibular joint in patients with temporomandibular disorders using delayed gadolinium-enhanced MRI at 3 Tesla – preliminary results. In *Magnetic Resonance Imaging*, 2020, vol. 67, p. 24-27. (2019: 2.053 - IF, Q3 - JCR, 0.792 - SJR, Q2 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0730-725X. Dostupné na: <https://doi.org/10.1016/j.mri.2019.12.002>
- ADCA22 ELLIS, J.\*\* - VALKOVIČ, Ladislav - PURVIS, L.A.B. - CLARKE, W.T. - RODGERS, C.T. Reproducibility of human cardiac phosphorus MRS (31P-MRS) at 7 T. In *NMR in Biomedicine*, 2019, vol. 32, no. 6, p. e4095. (2018: 3.414 - IF, Q1 - JCR, 1.708 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0952-3480. Dostupné na: <https://doi.org/10.1002/nbm.4095>
- ADCA23 FARKAS, B. - KOLENČÍK, M. - HAIN, Miroslav - DOBROČKA, Edmund - KRATOŠOVÁ, G. - BUJDOŠ, M. - FENG, H. - DENG, Y. - YU, Q. - ILLA, R. - SUNIL, B.R. - KIM, H. - MATÚŠ, P. - URÍK, M.\*\*. *Aspergillus niger* decreases bioavailability of arsenic(V) via biotransformation of manganese oxide into biogenic oxalate minerals. In *Journal of Fungi*, 2020, vol. 6, no. 4, art. no. 270. (2019: 4.621 - IF, Q1 - JCR, 1.416 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 2309-608X. Dostupné na: <https://doi.org/10.3390/jof6040270>

- ADCA24 FROLLO, Ivan\*\* - ANDRIS, Peter - KRAFČÍK, Andrej - GOGOLA, Daniel - DERMEK, Tomáš. Magnetic field homogeneity adjustment for magnetic resonance imaging equipment. In *IEEE Transactions on Magnetics*, 2018, vol. 54, no. 5, art. no. 6500309. (2017: 1.467 - IF, Q3 - JCR, 0.488 - SJR, Q2 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0018-9464. Dostupné na: <https://doi.org/10.1109/TMAG.2018.2804352>
- ADCA25 GÎRGEL, I. - ŠATKA, Alexander - PRIESOL, J. - COULON, P.-M. - LE BOULBAR, E.D. - BATTEN, T. - ALLSOPP, D.W.E. - SHIELDS, P.A.\*\*. Optical characterization of magnesium incorporation in p-GaN layers for core-shell nanorod light-emitting diodes. In *Journal of Physics D: Applied Physics*, 2018, vol. 51, no. 15, art. no. 155103. (2017: 2.373 - IF, Q2 - JCR, 0.717 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0022-3727. Dostupné na: <https://doi.org/10.1088/1361-6463/aab16b>
- ADCA26 GRENDÁR, Marián - ŠPITALSKÝ, V. Multinomial and empirical likelihood under convex constraints: Directions of recession, Fenchel duality, the PP algorithm. In *Electronic Journal of Statistics*, 2017, vol. 11, no. 1, p. 2547-2612. (2016: 0.822 - IF, Q3 - JCR, 1.670 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 1935-7524. Dostupné na: <https://doi.org/10.1214/17-EJS1294>
- ADCA27 HAGER, B. - WALZER, S.M. - DELIGIANNI, X. - BIERI, O. - BERG, A. - SCHREINER, M. - ZALAUDEK, M. - WINDHAGER, R. - TRATTNIG, S.\*\* - JURÁŠ, Vladimír. Orientation dependence and decay characteristics of T2\* relaxation in the human meniscus studied with 7 Tesla MR microscopy and compared to histology. In *Magnetic Resonance in Medicine*, 2019, vol. 81, no. 2, p. 921-933. (2018: 3.858 - IF, Q1 - JCR, 1.985 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0740-3194. Dostupné na: <https://doi.org/10.1002/mrm.27443>
- ADCA28 HLÁSNY, T. - TROMBIK, J. - HOLUŠA, J. - LUKÁŠOVÁ, K. - GRENDÁR, Marián - TURČÁNI, M. - ZÚBRIK, M. - TABAKOVIĆ-TOŠIĆ, M. - HIRKA, A. - BUKSHA, I. - MODLINGER, R. - KACPRZYK, M. - CSÒKA, G. Multi-decade patterns of gypsy moth fluctuations in the Carpathian Mountains and options for outbreak forecasting. In *Journal of Pest Science*, 2016, vol. 89, no. 2, p. 413-425. (2015: 3.103 - IF, Q1 - JCR, 1.383 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 1612-4758. Dostupné na: <https://doi.org/10.1007/s10340-015-0694-7>
- ADCA29 HUNDERTMARK, M. - AGBAJE, O. - COLEMAN, R. - GEORGE, J. - GREMPER, R. - HOLMAN, R. - LAMLUM, H. - LEE, J. - MILTON, J. - NIESSEN, H. - RIDER, O. - RODGERS, C. - VALKOVIČ, Ladislav - WICKS, E. - MAHMUD, M.\* - NEUBAUER, S.\*\*. Design and rationale of the EMPA-VISION trial: Investigating the metabolic effects of empagliflozin in patients with heart failure. In *ESC Heart Failure*, 2021, vol. 8, no. 4, p. 2580-2590. (2020: 4.411 - IF, Q2 - JCR, 0.787 - SJR, Q2 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 2055-5822. Dostupné na: <https://doi.org/10.1002/ehf2.13406>
- ADCA30 CHVOSTEKOVÁ, Martina\*\* - JAKUBÍK, Jozef - KRAKOVSKÁ, Anna. Granger causality on forward and reversed time series. In *Entropy*, 2021, vol. 23, no.

4, p. 409. (2020: 2.524 - IF, Q2 - JCR, 0.468 - SJR, Q2 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 1099-4300. Dostupné na: <https://doi.org/10.3390/e23040409>

- ADCA31 JAHN, P.\* - DEAK, B.\* - MAYR, A. - STANKEWITZ, A. - KEESER, D. - GRIFFANTI, L. - WITKOVSKÝ, Viktor - IRVING, S. - SCHULZ, E.\*\*. Intrinsic network activity reflects the ongoing experience of chronic pain. In *Scientific Reports*, 2021, vol. 11, no. 1, art. no. 21870. (2020: 4.380 - IF, Q1 - JCR, 1.240 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-021-01340-0>
- ADCA32 JELENC, M.T. - CHMELÍK, M. - BOGNER, W. - KRŠŠÁK, M. - TRATTNIG, S. - VALKOVIČ, Ladislav. Feasibility and repeatability of localized 31P-MRS four-angle saturation transfer (FAST) of the human gastrocnemius muscle using a surface coil at 7T. In *NMR in Biomedicine*, 2016, vol. 29, no. 1, p. 57-65. (2015: 2.983 - IF, Q1 - JCR, 1.624 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0952-3480. Dostupné na: <https://doi.org/10.1002/nbm.3445>
- ADCA33 JURÁŠ, Vladimír - BOHNDORF, K. - HEULE, R. - KRONNERWETTER, C. - SZOMOLÁNYI, Pavol - HAGER, B. - BIERI, O. - ZBÝŇ, Š. - TRATTNIG, S. A comparison of multi-echo spin-echo and triple-echo steady-state T2 mapping for in vivo evaluation of articular cartilage. In *European Radiology*, 2016, vol. 26, no. 6, p. 1905-1912. (2015: 3.640 - IF, Q1 - JCR, 2.123 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0938-7994. Dostupné na: <https://doi.org/10.1007/s00330-015-3979-6>
- ADCA34 JURÁŠ, Vladimír\*\* - CHANG, G. - REGATTE, R.R. Current status of functional MRI of osteoarthritis for diagnosis and prognosis. In *Current Opinion in Rheumatology*, 2020, vol. 32, no. 1, p. 102-109. (2019: 4.006 - IF, Q2 - JCR, 1.525 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 1040-8711. Dostupné na: <https://doi.org/10.1097/BOR.0000000000000674>
- ADCA35 JURÁŠ, Vladimír\*\* - SCHREINER, M. - LAURENT, D. - ZBÝŇ, Š. - MLYNÁRIK, V. - SZOMOLÁNYI, Pavol - HAGER, B. - SCOTII, C. - GOLDHAHN, J. - HEULE, R. - BIERI, O. - TRATTNIG, S. The comparison of the performance of 3 T and 7 T T2 mapping for untreated low-grade cartilage lesions. In *Magnetic Resonance Imaging*, 2019, vol. 55, p. 86-92. (2018: 2.112 - IF, Q3 - JCR, 0.977 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0730-725X. Dostupné na: <https://doi.org/10.1016/j.mri.2018.09.021>
- ADCA36 JURÁŠ, Vladimír - ZBÝŇ, Š. - MLYNÁRIK, V. - SZOMOLÁNYI, Pavol - HAGER, B. - BAER, P. - FROLLO, Ivan - TRATTNIG, S. The compositional difference between ankle and knee cartilage demonstrated by T2 mapping at 7 Tesla MR. In *European Journal of Radiology*, 2016, vol. 85, no. 4, p. 771-777. (2015: 2.593 - IF, Q2 - JCR, 1.209 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0720-048X. Dostupné na: <https://doi.org/10.1016/j.ejrad.2016.01.021>



- ADCA37 KHUNOVÁ, V. - ŠAFAŘÍK, I. - ŠKRÁTEK, Martin - KELNAR, I. - TOMANOVÁ, K. Biodegradable polymer nanocomposites based on natural nanotubes: Effect of magnetically modified halloysite on the behaviour of polycaprolactone. In *Clay Minerals*, 2016, vol. 51, no. 3, p. 435-444. (2015: 0.874 - IF, Q3 - JCR, 0.379 - SJR, Q3 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0009-8558. Dostupné na: <https://doi.org/10.1180/claymin.2016.051.3.05>
- ADCA38 KHUNOVÁ, V.\*\* - PAVLIŇÁK, D. - ŠAFAŘÍK, I. - ŠKRÁTEK, Martin - ONDREÁŠ, F. Multifunctional electrospun nanofibers based on biopolymer blends and magnetic tubular halloysite for medical applications. In *Polymers*, 2021, vol. 13, no. 22, p. 3870. (2020: 4.329 - IF, Q1 - JCR, 0.770 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 2073-4360. Dostupné na: <https://doi.org/10.3390/polym13223870>
- ADCA39 KLEMBARA, J.\*\* - HAIN, Miroslav - ČERŇANSKÝ, A. - BERMAN, D.S. - HENRICI, A.C. Anatomy of the neural endocranium, parasphenoid and stapes of *Diadectes absitus* (Diadectomorpha) from the early Permian of Germany based on the high-resolution X-ray microcomputed tomography. In *The Anatomical Record : Advances in Integrative Anatomy and Evolutionary Biology*, 2020, vol. 303, no. 12, p. 2977-2999. (2019: 1.634 - IF, Q3 - JCR, 0.538 - SJR, Q2 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 1932-8486. Dostupné na: <https://doi.org/10.1002/ar.24376>
- ADCA40 KLEMBARA, J.\*\* - RUTA, M. - HAIN, Miroslav - BERMAN, D.S. Braincase and inner ear anatomy of the late Carboniferous tetrapod *Limnoscelis dynatis* (Diadectomorpha) revealed by high-resolution X-ray microcomputed tomography. In *Frontiers in Ecology and Evolution*, 2021, vol. 9, art. no. 709766. (2020: 4.171 - IF, Q1 - JCR, 1.317 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 2296-701X. Dostupné na: <https://doi.org/10.3389/fevo.2021.709766>
- ADCA41 KLEMBARA, J.\*\* - HAIN, Miroslav - RUTA, M.\*\* - BERMAN, D.S. - PIERCE, S.E. - HENRICI, A.C. Inner ear morphology of diadectomorphs and seymouriamorphs (Tetrapoda) uncovered by high-resolution x-ray microcomputed tomography, and the origin of the amniote crown group. In *Palaeontology*, 2020, vol. 36, no. 1, p. 131-154. (2019: 3.060 - IF, Q1 - JCR, 1.642 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0031-0239. Dostupné na: <https://doi.org/10.1111/pala.12448>
- ADCA42 KLEMBARA, J. - DOBIAŠOVÁ, K. - HAIN, Miroslav - YARYHIN, O. Skull anatomy and ontogeny of legless lizard *Pseudopus apodus* (Pallas, 1775): Heterochronic influences on form. In *The Anatomical Record : Advances in Integrative Anatomy and Evolutionary Biology*, 2017, vol. 300, no. 3, p. 460-502. (2016: 1.431 - IF, Q2 - JCR, 0.727 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 1932-8486. Dostupné na: <https://doi.org/10.1002/ar.23532>
- ADCA43 KLEMBARA, J. - HAIN, Miroslav - ČERŇANSKÝ, A.\*\*. The first record of anguine lizards (Anguimorpha, Anguidae) from the early Miocene locality Ulm –

Westtangente in Germany. In *Historical Biology*, 2019, vol. 31, no. 8, p. 1016-1027. (2018: 1.489 - IF, Q2 - JCR, 0.569 - SJR, Q2 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0891-2963. Dostupné na: <https://doi.org/10.1080/08912963.2017.1416469>

- ADCA44 KLEPOCHOVÁ, R. - VALKOVIČ, Ladislav - GAJDOŠÍK, M. - HOCHWARTNER, T. - TSCHAN, H. - KREBS, M. - TRATTNIG, S. - KRŠŠÁK, M. Detection and alterations of acetylcarnitine in human skeletal muscles by <sup>1</sup>H MRS at 7 T. In *Investigative Radiology*, 2017, vol. 52, no. 7, p. 412-418. (2016: 5.195 - IF, Q1 - JCR, 2.671 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0020-9996. Dostupné na: <https://doi.org/10.1097/RLI.0000000000000355>
- ADCA45 KORALEWSKI, Marcell\*\* - BALEJČÍKOVÁ, Lucia - MITRÓOVÁ, Zuzana - POCHYLSKI, Mikolaj - BARANOWSKI, Mikolaj - KOPČANSKÝ, Peter. Morphology and Magnetic Structure of the Ferritin Core during Iron Loading and Release by Magneto-optical and NMR Methods. In *ACS Applied Materials & Interfaces*, 2018, vol. 10, no. 9, p. 7777-7787. (2017: 8.097 - IF, Q1 - JCR, 2.784 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.7b18304>
- ADCA46 KOVÁČ, Pavol\*\* - HUŠEK, Imrich - HAIN, Miroslav - KOPERA, Ľubomír - MELIŠEK, Tibor - BEREK, Dušan. Longitudinal uniformity of MgB<sub>2</sub> wires made by an internal magnesium diffusion process. In *Superconductor Science and Technology*, 2021, vol. 34, no. 095007. (2020: 3.219 - IF, Q2 - JCR, 1.033 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ac191b>
- ADCA47 KOVÁČ, Pavol\*\* - KOPERA, Ľubomír - HAIN, Miroslav - MARTINEZ, E. - KOVÁČ, Ján - MELIŠEK, Tibor - BEREK, Dušan - HUŠEK, Imrich. MgB<sub>2</sub> cables made of thin wires manufactured by IMD process. In *Superconductor Science and Technology*, 2020, vol. 33, no. 8, no. 085004. (2019: 3.067 - IF, Q2 - JCR, 0.991 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ab9520>
- ADCA48 KOVÁČ, Pavol\*\* - KOPERA, Ľubomír - KOVÁČ, Ján - HAIN, Miroslav - MELIŠEK, Tibor - KULICH, Miloslav - HUŠEK, Imrich. Rutherford cable made of internal magnesium diffusion MgB<sub>2</sub> wires sheathed with Al-Al<sub>2</sub>O<sub>3</sub> particulate metal matrix composite. In *Superconductor Science and Technology*, 2018, vol. 31, no. 015015. (2017: 2.861 - IF, Q2 - JCR, 1.036 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/aa9539>
- ADCA49 KRAFČÍK, Andrej\*\* - BABINEC, P. - STRBAK, O. - FROLLO, Ivan. A theoretical analysis of magnetic particle alignment in external magnetic fields affected by viscosity and brownian motion. In *Applied Sciences-Basel*, 2021, vol. 11, no. 20, p. 9651. (2020: 2.679 - IF, Q2 - JCR, 0.435 - SJR, Q2 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 2076-3417. Dostupné na: <https://doi.org/10.3390/app11209651>

- ADCA50 KRAFČÍK, Andrej\*\* - STEIN, George Juraj - FROLLO, Ivan. FEM model of oscillating ferromagnetic yoke in the magnetic field of a permanent magnet with and without a short-circuited coil. In *IEEE Transactions on Magnetics*, 2020, vol. 56, no. 3, p. 7400311. (2019: 1.626 - IF, Q3 - JCR, 0.594 - SJR, Q2 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0018-9464. Dostupné na: <https://doi.org/10.1109/TMAG.2019.2961310>
- ADCA51 KRAFČÍK, Andrej\*\* - BABINEC, P. - BABINCOVA, M. - FROLLO, Ivan. High gradient magnetic separation with involved Basset history force: Configuration with single axial wire. In *Powder Technology*, 2019, vol. 347, p. 50–58. (2018: 3.413 - IF, Q1 - JCR, 0.968 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0032-5910. Dostupné na: <https://doi.org/10.1016/j.powtec.2019.02.044>
- ADCA52 KRAFČÍK, Andrej\*\* - BABINEC, P. - FROLLO, Ivan. Stokes versus Basset: Comparison of forces governing motion of small bodies with high acceleration. In *European Journal of Physics*, 2018, vol. 39, art. no. 035805. (2017: 0.642 - IF, Q4 - JCR, 0.337 - SJR, Q3 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0143-0807. Dostupné na: <https://doi.org/10.1088/1361-6404/aaabc7>
- ADCA53 KRAKOVSKÁ, Anna\*\* - JAKUBÍK, Jozef - CHVOSTEKOVÁ, Martina - COUFAL, D. - JAJCAY, N. - PALUŠ, M. Comparison of six methods for the detection of causality in a bivariate time series. In *Physical Review E*, 2018, vol. 97, art. no. 042207. (2017: 2.284 - IF, Q1 - JCR, 0.979 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.97.042207>
- ADCA54 KRAKOVSKÁ, Anna. Correlation dimension detects causal links in coupled dynamical systems. In *Entropy*, 2019, vol. 21, no. 9, art. no. 818. (2018: 2.419 - IF, Q2 - JCR, 0.524 - SJR, Q2 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 1099-4300. Dostupné na: <https://doi.org/10.3390/e21090818>
- ADCA55 KRAKOVSKÁ, Anna\*\* - JAKUBÍK, Jozef. Implementation of two causal methods based on predictions in reconstructed state spaces. In *Physical Review E*, 2020, vol. 102, p. 022203. (2019: 2.296 - IF, Q1 - JCR, 0.958 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.102.022203>
- ADCA56 KRAKOVSKÁ, Anna - HANZELY, Filip. Testing for causality in reconstructed state spaces by an optimized mixed prediction method. In *Physical Review E*, 2016, vol. 94, no. 5, p. 052203. (2015: 2.252 - IF, Q1 - JCR, 1.183 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.94.052203>
- ADCA57 KUKUROVÁ, I.J. - VALKOVIČ, Ladislav - UKROPEC, Jozef - DE COURTEN, B. - CHMELÍK, M. - UKROPCOVÁ, Barbara - TRATTNIG, S. - KRŠŠÁK, M. Improved spectral resolution and high reliability of in vivo 1H MRS at 7 T allow the characterization of the effect of acute exercise on carnosine in skeletal muscle. In *NMR in Biomedicine*, 2016, vol. 29, no. 1, p. 24–32. (2015: 2.983

- IF, Q1 - JCR, 1.624 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0952-3480. Dostupné na: <https://doi.org/10.1002/nbm.3447>

- ADCA58 KULICH, Miloslav - KOVÁČ, Pavol - HAIN, Miroslav - ROSOVÁ, Alica - DOBROČKA, Edmund. High density and connectivity of a MgB<sub>2</sub> filament made using the internal magnesium diffusion technique. In *Superconductor Science and Technology*, 2016, vol. 29, art. no. 035004. (2015: 2.717 - IF, Q1 - JCR, 1.130 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/0953-2048/29/3/035004>
- ADCA59 LÍŠKOVÁ, Silvia\*\* - BALIŠ, Peter - MIČUROVÁ, Andrea - KLUKNAVSKÝ, Michal - OKULIAROVÁ, Monika - PÚZSEROVÁ, Angelika - ŠKRÁTEK, Martin - SEKAJ, Ivan - MAŇKA, Ján - VALOVIČ, Pavol - BERNÁTOVÁ, Iveta\*\*. Effect of iron oxide nanoparticles on vascular function and nitric oxide production in acute stress-exposed rats. In *Physiological Research*, 2020, vol. 69, no. 6, p. 1067-1086. (2019: 1.655 - IF, Q4 - JCR, 0.651 - SJR, Q2 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0862-8408. Dostupné na: <https://doi.org/10.33549/physiolres.934567>
- ADCA60 MAJEROVÁ, Melinda\*\* - PRNOVÁ, Anna - PLŠKO, Alfonz - ŠVANČÁREK, Peter - VALÚCHOVÁ, Jana - KLEMENT, Róbert - GALUSEK, Dušan. Crystallization kinetics of gehlenite glass microspheres. In *Journal of Thermal Analysis and Calorimetry*, 2020, vol. 142, p. 1003-1010. (2019: 2.731 - IF, Q2 - JCR, 0.415 - SJR, Q3 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 1388-6150. Dostupné na: <https://doi.org/10.1007/s10973-020-09305-7>
- ADCA61 MAJEROVÁ, Melinda\*\* - PRNOVÁ, Anna - PLŠKO, Alfonz - HRUŠKA, B. - VALÚCHOVÁ, Jana - KRAXNER, J. - BRUNEEL, E. - DE BUYSSER, K. - GALUSEK, Dušan. Crystallization kinetics of Ni-doped Ca<sub>2</sub>Al<sub>2</sub>SiO<sub>7</sub> glass microspheres. In *Journal of Thermal Analysis and Calorimetry*, 2020, vol. 142, no. 5, p. 2111–2121. (2019: 2.731 - IF, Q2 - JCR, 0.415 - SJR, Q3 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 1388-6150. Dostupné na: <https://doi.org/10.1007/s10973-020-10154-7>
- ADCA62 MAJEROVÁ, Melinda - DVUREČENSKIJ, Andrej - CIGÁŇ, Alexander - ŠKRÁTEK, Martin - PRNOVÁ, Anna - KRAXNER, Jozef - GALUSEK, Dušan - MAŇKA, Ján. Magnetic properties of synthetic gehlenite glass microspheres. In *Acta Physica Polonica A*, 2017, vol. 131, no. 4, p. 699-701. (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.131.699>
- ADCA63 MASÁROVÁ-KOZELOVÁ, Marta - KRAFČÍK, Andrej - TEPLAN, Michal - STRBAK, O. - GOGOLA, Daniel - BORUTA, P. - DOBROTA, D. - FROLLO, Ivan. Comparison of iron oxide-related MRI artifacts in healthy and neuropathological human brain tissue. In *Acta Physica Polonica A*, 2017, vol. 131, no. 4, p. 1108-1110. (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.131.1108>

- ADCA64 MEYERSPEER, M.\*\* - BOESCH, Ch. - CAMERON, D. - DEZORTOVÁ, M. - FORBES, S.C. - HEERSCHAP, A. - JENESON, J.A.L. - KAN, H.E. - KENT, J. - LAYEC, G. - PROMPERS, J.J. - REYNGOUDT, H. - SLEIGH, A. - VALKOVIČ, Ladislav - KEMP, G.J. P-31 magnetic resonance spectroscopy in skeletal muscle: Experts' consensus recommendations. In *NMR in Biomedicine*, 2021, vol. 34, no. 5, e4246. (2020: 4.044 - IF, Q1 - JCR, 1.278 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 0952-3480. Dostupné na: <https://doi.org/10.1002/nbm.4246>
- ADCA65 MIČUROVÁ, Andrea - KLUKNAVSKÝ, Michal - LÍŠKOVÁ, Silvia - BALIŠ, Peter - ŠKRÁTEK, Martin - OKRUHLICOVÁ, Ľudmila - MAŇKA, Ján - BERNÁTOVÁ, Iveta\*\*. Differences in distribution and biological effects of F3O4@PEG nanoparticles in normotensive and hypertensive rats—focus on vascular function and liver. In *Biomedicines*, 2021, vol. 9, no. 12, art. no. 1855. (2020: 6.081 - IF, Q1 - JCR, 1.511 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 2227-9059. Dostupné na: <https://doi.org/10.3390/biomedicines9121855>
- ADCA66 MILLER, J.J.\* - VALKOVIČ, Ladislav\* - KERR, M. - TIMM, K.N. - WATSON, W.D. - LAU, J.Y.C. - TYLER, A.\* - RODGERS, C. - BOTTOMLEY, P.A. - HEATHER, L.C.\* - TYLER, D.J. Rapid, B1-insensitive, dual-band quasi-adiabatic saturation transfer with optimal control for complete quantification of myocardial ATP flux. In *Magnetic Resonance in Medicine*, 2021, vol. 85, no. 6, p. 2978-2991. (2020: 4.668 - IF, Q1 - JCR, 1.696 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 0740-3194. Dostupné na: <https://doi.org/10.1002/mrm.28647>
- ADCA67 MINARIKOVA, L. - BOGNER, W. - PINKER, K. - VALKOVIČ, Ladislav - ZARIC, O. - BAGO-HORVATH, Z. - BARTSCH, R. - HELBICH, T. - TRATTNIG, S. - GRUBER, S. Investigating the prediction value of multiparametric magnetic resonance imaging at 3 T in response to neoadjuvant chemotherapy in breast cancer. In *European Radiology*, 2017, vol. 27, no. 5, p. 1901-1911. (2016: 3.967 - IF, Q1 - JCR, 1.943 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0938-7994. Dostupné na: <https://doi.org/10.1007/s00330-016-4565-2>
- ADCA68 MÓZES, F.E.\*\* - VALKOVIČ, Ladislav - PAVLIDES, M. - ROBSON, M.D. - TUNNICLIFFE, E.M. Hydration and glycogen affect T1 relaxation times of liver. In *NMR in Biomedicine*, 2021, vol. 34, no. 7, e4530. (2020: 4.044 - IF, Q1 - JCR, 1.278 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 0952-3480. Dostupné na: <https://doi.org/10.1002/nbm.4530>
- ADCA69 NÝBLOVÁ, Daniela\*\* - BILLIK, Peter - NOGA, Jozef - ŠIMON, Erik - BYSTRICKÝ, Roman - ČAPLOVIČOVÁ, Mária - NOSKO, Martin. Degradation of Al4C3 due to atmospheric humidity. In *JOM : Journal of the Minerals, Metals and Materials Society*, 2018, vol. 70, no. 19, p. 2378-2384. (2017: 2.145 - IF, Q1 - JCR,

1.054 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1047-4838. Dostupné na: <https://doi.org/10.1007/s11837-018-3053-3>

- ADCA70 NÝBLOVÁ, D.\*\* - SENNA, M. - DÜVEL, A. - HEITJANS, Paul - BILLIK, Peter - FILO, J. - ŠEPELÁK, Vladimír. NMR study on reaction processes from aluminum chloride hydroxides to alpha alumina powders. In *Journal of the American Ceramic Society*, 2019, vol. 102, p. 2871–2881. (2018: 3.094 - IF, Q1 - JCR, 0.974 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0002-7820. Dostupné na: <https://doi.org/10.1111/jace.16108>
- ADCA71 ORLOVSKÁ, M.\*\* - HAIN, Miroslav - KITZMANTEL, M. - VETEŠKA, P. - HAJDÚCHOVÁ, Z. - JANEK, M. - VOZÁROVÁ, M. - BAČA, Ľ. Monitoring of critical processing steps during the production of high dense 3D alumina parts using Fused Filament Fabrication technology. In *Additive Manufacturing*, 2021, vol. 48, part A, 102395. (2020: 10.998 - IF, Q1 - JCR, 2.710 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 2214-8604. Dostupné na: <https://doi.org/10.1016/j.addma.2021.102395>
- ADCA72 PÁLKOVÁ, Helena\*\* - BARLOG, Martin - MADEJOVÁ, Jana - HRONSKÝ, V. - PETRA, L. - ŠIMON, Erik - BILLIK, Peter - ZIMOWSKA, M. Structural changes in smectites subjected to mechanochemical activation: The effect of the occupancy of the octahedral sites. In *Applied Clay Science*, 2021, vol. 213, p. 106214-1-106214-9. (2020: 5.467 - IF, Q1 - JCR, 1.062 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 0169-1317. Dostupné na: <https://doi.org/10.1016/j.clay.2021.106214>
- ADCA73 PALUŠ, M.\*\* - KRAKOVSKÁ, Anna - JAKUBÍK, Jozef - CHVOSTEKOVÁ, Martina. Causality, dynamical systems and the arrow of time. In *Chaos : An Interdisciplinary Journal of Nonlinear Science*, 2018, vol. 28, no. 7, art. no. 075307. (2017: 2.415 - IF, Q1 - JCR, 0.716 - SJR, Q2 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1054-1500. Dostupné na: <https://doi.org/10.1063/1.5019944>
- ADCA74 PETRA, Lukáš - BILLIK, Peter - MELICHOVÁ, Zuzana - KOMADEL, Peter. Mechanochemically activated saponite as materials for Cu<sup>2+</sup> and Ni<sup>2+</sup> removal from aqueous solutions. In *Applied Clay Science*, 2017, vol. 143, p. 22-28. (2016: 3.101 - IF, Q1 - JCR, 0.899 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0169-1317. Dostupné na: <https://doi.org/10.1016/j.clay.2017.03.012>
- ADCA75 PRIESOL, J.\*\* - ŠATKA, Alexander - CHVÁLA, A. - STOFFELS, S. - DE JAEGER, B. - DECOUTERE, S. Identification of electrically stressed regions in AlGa<sub>N</sub>/Ga<sub>N</sub>-on-Si Schottky barrier diode using EBIC technique. In *IEEE Transactions on Electron Devices*, 2021, vol. 68, no. 1, p. 216-221. (2020: 2.917 - IF, Q2 - JCR, 0.828 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 0018-9383. Dostupné na: <https://doi.org/10.1109/TED.2020.3039756>
- ADCA76 PRNOVÁ, Anna\*\* - PLŠKO, Alfonz - KLEMENT, Róbert - VALÚCHOVÁ, Jana - HALADEJOVÁ, Katarína - ŠVANČÁREK, Peter - MAJEROVÁ, Melinda -

GALUSEK, Dušan. Crystallization kinetics of binary La<sub>2</sub>O<sub>3</sub>-Al<sub>2</sub>O<sub>3</sub> glass. In *Journal of Non-Crystalline Solids*, 2018, vol. 501, p. 55-61. (2017: 2.488 - IF, Q1 - JCR, 0.722 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0022-3093. Dostupné na: <https://doi.org/10.1016/j.jnoncrysol.2018.03.001>

ADCA77 PRNOVÁ, Anna\*\* - PLŠKO, Alfonz - VALÚCHOVÁ, Jana - KLEMENT, Róbert - CHROMČÍKOVÁ, Mária - MUTLU, Nurshen - MAJEROVÁ, Melinda - BRUNEEL, E. - GALUSEK, Dušan. Crystallization kinetics of binary Yb<sub>2</sub>O<sub>3</sub>-Al<sub>2</sub>O<sub>3</sub> glass. In *Journal of Thermal Analysis and Calorimetry*, 2020, vol. 142, no. 5, p. 2141–2148. (2019: 2.731 - IF, Q2 - JCR, 0.415 - SJR, Q3 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 1388-6150. Dostupné na: <https://doi.org/10.1007/s10973-020-10049-7>

ADCA78 PŘIBIL, Jiří - PŘIBILOVÁ, Anna - FROLLO, Ivan. Comparison of mechanical vibration and acoustic noise in the open-air MRI. In *Applied Acoustics*, 2016, vol. 105, p. 13-23. (2015: 1.462 - IF, Q2 - JCR, 0.668 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0003-682X. Dostupné na: <https://doi.org/10.1016/j.apacoust.2015.11.013>

ADCA79 PŘIBIL, Jiří\*\* - PŘIBILOVÁ, Anna - FROLLO, Ivan. First-step PPG signal analysis for evaluation of stress induced during scanning in the open-air MRI device. In *Sensors*, 2020, vol. 20, no. 12, art. no. 3532. (2019: 3.275 - IF, Q1 - JCR, 0.653 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 1424-8220. Dostupné na: <https://doi.org/10.3390/s20123532>

ADCA80 PŘIBIL, Jiří\*\* - PŘIBILOVÁ, Anna - MATOUŠEK, J. GMM-based evaluation of synthetic speech quality using 2D classification in pleasure-arousal scale. In *Applied Sciences-Basel*, 2021, vol. 11, no. 1, art. no. 2. (2020: 2.679 - IF, Q2 - JCR, 0.435 - SJR, Q2 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 2076-3417. Dostupné na: <https://doi.org/10.3390/app11010002>

ADCA81 PŘIBIL, Jiří\*\* - PŘIBILOVÁ, Anna - FROLLO, Ivan. Stress level detection and evaluation from phonation and PPG signals recorded in an open-air MRI device. In *Applied Sciences-Basel*, 2021, vol. 11, no. 24, art. no. 11748. (2020: 2.679 - IF, Q2 - JCR, 0.435 - SJR, Q2 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 2076-3417. Dostupné na: <https://doi.org/10.3390/app112411748>

ADCA82 PURVIS, L.A.B. - VALKOVIČ, Ladislav - ROBSON, M.D. - RODGERS, C.T.\*\*. Feasibility of absolute quantification for 31P MRS at 7 T. In *Magnetic Resonance in Medicine*, 2019, vol. 82, no. 1, p. 49-61. (2018: 3.858 - IF, Q1 - JCR, 1.985 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0740-3194. Dostupné na: <https://doi.org/10.1002/mrm.27729>

ADCA83 PURVIS, L.A.B. - CLARKE, W.T. - VALKOVIČ, Ladislav - LEVICK, C. - PAVLIDES, M. - BARNES, E. - COBBOLD, J.F. - ROBSON, M.D. - RODGERS, C.T. Phosphodiester content measured in human liver by in vivo 31P MR spectroscopy at 7 Tesla. In *Magnetic Resonance in Medicine*, 2017, vol. 78, no. 6, p. 2095-2105. (2016: 3.924 - IF, Q1 - JCR, 1.945 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0740-3194. Dostupné na: <https://doi.org/10.1002/mrm.26635>

- ADCA84 RADOŠINSKÁ, Jana\*\* - JASENOVEC, Tomáš - RADOŠINSKÁ, Dominika - BALIŠ, Peter - PÚZSEROVÁ, Angelika - ŠKRÁTEK, Martin - MAŇKA, Ján - BERNÁTOVÁ, Iveta. Ultra-small superparamagnetic iron-oxide nanoparticles exert different effects on erythrocytes in normotensive and hypertensive rats. In *Biomedicines*, 2021, vol. 9, no. 4, art. no. 377. (2020: 6.081 - IF, Q1 - JCR, 1.511 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 2227-9059. Dostupné na: <https://doi.org/10.3390/biomedicines9040377>
- ADCA85 RAPČAN, R. - KOČAN, L. - WITKOVSKÝ, Viktor - MLÁKA, J. - GRIGER, M. - BURIANEK, M. - RAPČANOVÁ, S. - HAMMOND, A. - POLIAK, Ľ. - TIRPÁK, R. - ŠIMONOVÁ, J. - SABOL, F. - VAŠKOVÁ, J.\*\*. EQ-5D-5L questionnaire as suitable assessment of quality of life after epiduroscopy. In *Wiener klinische Wochenschrift*, 2020, vol. 132, p. 526-534. (2019: 1.323 - IF, Q3 - JCR, 0.383 - SJR, Q3 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0043-5325. Dostupné na: <https://doi.org/10.1007/s00508-019-01590-z>
- ADCA86 RAUDNER, M. - SCHREINER, M. - HILBERT, T. - KOBER, T. - WEBER, M. - WINDHAGER, R. - TRATTNIG, S. - JURÁŠ, Vladimír\*\*. Accelerated T2 mapping of the lumbar intervertebral disc: Highly undersampled k-space data for robust T2 relaxation time measurement in clinically feasible acquisition times. In *Investigative Radiology*, 2020, vol. 55, no. 11, p. 695-701. (2019: 5.156 - IF, Q1 - JCR, 2.564 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0020-9996. Dostupné na: <https://doi.org/10.1097/RLI.0000000000000690>
- ADCA87 RAUDNER, M. - SCHREINER, M. - HILBERT, T. - KOBER, T. - WEBER, M. - SZELÉNYI, A. - WINDHAGER, R. - JURÁŠ, Vladimír - TRATTNIG, S.\*\*. Clinical implementation of accelerated T2 mapping: Quantitative magnetic resonance imaging as a biomarker for annular tear and lumbar disc herniation. In *European Radiology*, 2021, vol. 31, p. 3590-3599. (2020: 5.315 - IF, Q1 - JCR, 1.606 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 0938-7994. Dostupné na: <https://doi.org/10.1007/s00330-020-07538-6>
- ADCA88 RAUDNER, M. - SCHREINER, M. - JURÁŠ, Vladimír - WEBER, M. - STELZENEDER, D. - KRONNERWETTER, C. - WINDHAGER, R. - TRATTNIG, S.\*\*. Prediction of lumbar disk herniation and clinical outcome using quantitative magnetic resonance imaging: A 5-year follow-up study. In *Investigative Radiology*, 2019, vol. 54, no. 3, p. 183-189. (2018: 6.091 - IF, Q1 - JCR, 3.761 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0020-9996. Dostupné na: <https://doi.org/10.1097/RLI.0000000000000527>
- ADCA89 ROSIPAL, Roman\*\* - PORUBCOVÁ, N. - BARANČOK, P. - CIMROVÁ, B. - FARKAŠ, I. - TREJO, L.J. Effects of mirror-box therapy on modulation of sensorimotor EEG oscillatory rhythms: A single-case longitudinal study. In *Journal of Neurophysiology*, 2019, vol. 121, no. 2, p. 620-633. (2018: 2.614 - IF, Q2 - JCR, 1.690 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0022-3077. Dostupné na: <https://doi.org/10.1152/jn.00599.2018>
- ADCA90 ROŠŤÁKOVÁ, Zuzana\*\* - ROSIPAL, Roman. Profiling continuous sleep representations for better understanding of the dynamic character of normal sleep. In



*Artificial Intelligence in Medicine*, 2019, vol. 97, p. 152-167. (2018: 3.574 - IF, Q1 - JCR, 1.025 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0933-3657. Dostupné na: <https://doi.org/10.1016/j.artmed.2018.12.009>

- ADCA91 RUBLÍK, František. Estimates of the covariance matrix of vectors of U-statistics and confidence regions for vectors of Kendall's tau. In *Kybernetika*, 2016, vol. 52, no. 2, p. 280-293. (2015: 0.628 - IF, Q4 - JCR, 0.321 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0023-5954. Dostupné na: <https://doi.org/10.14736/kyb-2016-2-0280>
- ADCA92 RUBLÍK, František. On jackknifing the symmetrized Tyler matrix. In *Statistics*, 2021, vol. 55, no. 1, p. 195-230. (2020: 1.051 - IF, Q3 - JCR, 0.683 - SJR, Q2 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 0233-1888. Dostupné na: <https://doi.org/10.1080/02331888.2020.1824230>
- ADCA93 SAROV, Y.\*\* - CAPEK, Ignác. Kinetic events of (micro)emulsion polymerization of styrene. In *Polymer Bulletin*, 2020, vol. 77, no. 9, p. 4851–4865. (2019: 2.014 - IF, Q2 - JCR, 0.396 - SJR, Q2 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0170-0839. Dostupné na: <https://doi.org/10.1007/s00289-019-02976-9>
- ADCA94 SENNA, M. - BILLIK, Peter - YERMAKOV, A.Ye. - ŠKRÁTEK, Martin - MAJEROVÁ, Melinda - ČAPLOVIČOVÁ, M. - MIČUŠÍK, Matej - ČAPLOVIČ, L. - BUJDOŠ, M. - NOSKO, Martin. Synthesis and magnetic properties of CuAlO<sub>2</sub> from high-energy ball-milled Cu<sub>2</sub>O–Al<sub>2</sub>O<sub>3</sub> mixture. In *Journal of Alloys and Compounds*, 2017, vol. 695, p. 2314-2323. (2016: 3.133 - IF, Q1 - JCR, 0.954 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2016.11.097>
- ADCA95 SCHMID, A. - MEYERSPEER, M. - ROBINSON, S. - GOLUCH, S. - WOLZT, M. - FIEDLER, G.B. - BOGNER, W. - LAISTLER, E. - KRŠŠÁK, M. - MOSER, E. - TRATTNIG, S. - VALKOVIČ, Ladislav. Dynamic PCr and pH imaging of human calf muscles during exercise and recovery using 31P gradient-Echo MRI at 7 Tesla. In *Magnetic Resonance in Medicine*, 2016, vol. 75, no. 6, p. 2324-2331. (2015: 3.782 - IF, Q1 - JCR, 2.329 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0740-3194. Dostupné na: <https://doi.org/10.1002/mrm.25822>
- ADCA96 SCHULZ, E.\*\* - STANKEWITZ, A. - WITKOVSKÝ, Viktor - WINKLER, A.M. - TRACEY, I. Strategy-dependent modulation of cortical pain circuits for the attenuation of pain. In *Cortex*, 2019, vol. 113, p. 255-266. (2018: 4.275 - IF, Q1 - JCR, 2.347 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0010-9452. Dostupné na: <https://doi.org/10.1016/j.cortex.2018.12.014>
- ADCA97 STANCIAKOVA, L.\*\* - DOBROTOVA, M. - HOLLY, P. - ZOLKOVA, J. - VADELOVA, L. - SKORNOVA, I. - IVANKOVA, J. - BOLEK, T. - SAMOS, M. - GRENDÁR, Marián - DANKO, J. - KUBISZ, P. - STASKO, J. How can rotational thromboelastometry as a point-of-care method be useful for the management of secondary thromboprophylaxis in high-risk pregnant patients? In *Diagnostics*, 2021, vol. 11, p. 828. (2020: 3.706 - IF, Q2 - JCR, 0.622 - SJR, Q3 - SJR, Current

Contents - CCC). (2021 - Current Contents). ISSN 2075-4418. Dostupné na:  
<https://doi.org/10.3390/diagnostics11050828>

- ADCA98 STANKEWITZ, A. - KEIDEL, L. - REHM, M. - IRVING, S. - KACZMARZ, S. - PREIBISCH, C. - WITKOVSKÝ, Viktor - ZIMMER, C. - SCHULZ, E.\*\* - TOELLE, T.R.\*. Migraine attacks as a result of hypothalamic loss of control. In *NeuroImage-Clinical*, 2021, vol. 32, art. no. 102784. (2020: 4.881 - IF, Q2 - JCR, 1.772 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 2213-1582. Dostupné na: <https://doi.org/10.1016/j.nicl.2021.102784>
- ADCA99 STEHLÍKOVÁ, G. - GYEPES, R. - BYSTRICKÝ, Roman - ŠKRÁTEK, Martin - VANĚK, P. - TATIERSKY, J.\*\*. Thermal properties of the hybrid compound  $[\text{Cu}(\text{en})_2(\text{VO}_3)_2] \cdot 3\text{H}_2\text{O}$  — phase analysis upon heating and cooling. Crystal structure characterization of its two polymorphic modifications. In *Journal of Molecular Structure*, 2021, vol. 1230, art. no. 129930. (2020: 3.196 - IF, Q3 - JCR, 0.471 - SJR, Q2 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 0022-2860. Dostupné na: <https://doi.org/10.1016/j.molstruc.2021.129930>
- ADCA100 STEIN, George Juraj\*\* - KRAFCÍK, Andrej - TOBOLKA, Peter - FROLLO, Ivan. Oscillating ferromagnetic yoke in the magnetic field of a permanent magnet. In *IEEE Transactions on Magnetics*, 2018, vol. 54, no. 4, art. no. 8000911. (2017: 1.467 - IF, Q3 - JCR, 0.488 - SJR, Q2 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0018-9464. Dostupné na:  
<https://doi.org/10.1109/TMAG.2017.2783355>
- ADCA101 STRBAK, O. - KUBOVČÍKOVÁ, Martina - BAČIAK, L. - KHMARA, Iryna - GOGOLA, Daniel - KONERACKÁ, Martina - ZÁVIŠOVÁ, Vlasta - ANTAL, Iryna - MASÁROVÁ-KOZELOVÁ, Marta - KRAFCÍK, Andrej - KOPČANSKÝ, Peter - DOBROTA, D. - FROLLO, Ivan. Effect of BSA protein on the contrast properties of magnetite nanoparticles during MRI. In *Acta Physica Polonica A*, 2017, vol. 131, no. 4, p. 1102-1104. (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.131.1102>
- ADCA102 STRBAK, O. - BALEJČÍKOVÁ, Lucia - BACIAK, Ladislav - KOVÁČ, Jozef - MASÁROVÁ-KOZELOVÁ, Marta - KRAFCÍK, Andrej - DOBROTA, D. - KOPČANSKÝ, Peter. Low-field and high-field magnetic resonance contrast imaging of magnetoferritin as a pathological model system of iron accumulation. In *Journal of Physics D: Applied Physics*, 2017, vol. 50, no. 36, art. no. 365401. (2016: 2.588 - IF, Q2 - JCR, 1.135 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 0022-3727. Dostupné na:  
<https://doi.org/10.1088/1361-6463/aa8020>
- ADCA103 STRBAK, O. - ANTAL, Iryna - GOGOLA, Daniel - BAČIAK, L. - KUBOVČÍKOVÁ, Martina - KONERACKÁ, Martina - ZÁVIŠOVÁ, Vlasta - KRAFCÍK, Andrej - MASÁROVÁ-KOZELOVÁ, Marta - KOPČANSKÝ, Peter - FROLLO, Ivan. Measurement of the magnetite nanoparticles' relaxivity during encapsulation into polylactide carriers. In *Measurement*, 2017, vol. 104, p. 89-92. (2016: 2.359 - IF, Q1 - JCR, 0.727 - SJR, Q1 - SJR, Current Contents - CCC). (2017

- Current Contents). ISSN 0263-2241. Dostupné na:  
<https://doi.org/10.1016/j.measurement.2017.03.019>

ADCA104 STRBAK, O. - KAŇUCHOVÁ, Zuzana - KRAFČÍK, Andrej. Proton gradients as a key physical factor in the evolution of the forced transport mechanism across the lipid membrane. In *Origins of Life and Evolution of Biospheres*, 2016, vol. 46, no. 4, p. 523-531. (2015: 1.141 - IF, Q3 - JCR, 0.463 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents, PubMed/Medline, Scopus, Inspec). ISSN 0169-6149. Dostupné na: <https://doi.org/10.1007/s11084-016-9496-z>

ADCA105 SULOVSÁ, K. - FIŠEROVÁ, E. - CHVOSTEKOVÁ, Martina - ADÁMEK, M. Appropriateness of gait analysis for biometrics: Initial study using FDA method. In *Measurement*, 2017, vol. 105, p. 1-10. (2016: 2.359 - IF, Q1 - JCR, 0.727 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0263-2241. Dostupné na: <https://doi.org/10.1016/j.measurement.2017.03.042>

ADCA106 SZOMOLÁNYI, Pavol - ROHRER, M. - FRENZEL, T. - NOEBAUER-HUHMANN, I.M. - JOST, G. - ENDRIKAT, J. - TRATTNIG, S.\*\* - PIETSCH, H. Comparison of the relaxivities of macrocyclic gadolinium-based contrast agents in human plasma at 1.5, 3, and 7 T, and blood at 3 T. In *Investigative Radiology*, 2019, vol. 54, no. 9, p. 559-564. (2018: 6.091 - IF, Q1 - JCR, 3.761 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0020-9996. Dostupné na: <https://doi.org/10.1097/RLI.0000000000000577>

ADCA107 SZOMOLÁNYI, Pavol - FRENZEL, T. - NOEBAUER-HUHMANN, I.M. - ROHRER, M. - TRATTNIG, S. - PIETSCH, H. - ENDRIKAT, J.\*\*. Impact of concentration and dilution of three macrocyclic gadolinium-based contrast agents on MRI signal intensity at 1.5T and 3T and different pulse sequences: Results of a phantom study in human plasma. In *Acta Radiologica*, 2021, vol. 62, no. 1, p. 51-57. (2020: 1.990 - IF, Q3 - JCR, 0.579 - SJR, Q2 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 0284-1851. Dostupné na: <https://doi.org/10.1177/0284185120915674>

ADCA108 ŠKOVIERA, R. - BAJLA, Ivan\*\* - ŠKOVIEROVÁ, J. Object recognition in clutter color images using Hierarchical Temporal Memory combined with salient-region detection. In *Neurocomputing*, 2018, vol. 307, p. 172-183. (2017: 3.241 - IF, Q1 - JCR, 1.073 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0925-2312. Dostupné na: <https://doi.org/10.1016/j.neucom.2018.04.030>

ADCA109 ŠKRÁTEK, Martin\*\* - DVUREČENSKIJ, Andrej - KLUKNAVSKÝ, Michal - BARTA, Andrej - BALÍŠ, Peter - MIČUROVÁ, Andrea - CIGÁŇ, Alexander - ECKSTEIN ANDICSOVÁ, Anita - MAŇKA, Ján\*\* - BERNÁTOVÁ, Iveta. Sensitive SQUID bio-magnetometry for determination and differentiation of biogenic iron and iron oxide nanoparticles in the biological samples. In *Nanomaterials*, 2020, vol. 10, no. 10, art. no. 1993. (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/nano10101993>

- ADCA110 ŠVEHLÍKOVÁ, Jana\*\* - TEPLAN, Michal - TYŠLER, Milan. Geometrical constraint of sources in noninvasive localization of premature ventricular contractions. In *Journal of Electrocardiology*, 2018, vol. 51, no. 3, p. 370-377. (2017: 1.421 - IF, Q4 - JCR, 0.710 - SJR, Q2 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0022-0736. Dostupné na: <https://doi.org/10.1016/j.jelectrocard.2018.02.013>
- ADCA111 ŠVEHLÍKOVÁ, Jana - ZELINKA, Ján - BACHAROVA, L. - TYŠLER, Milan. Modeling and visualization of the activation wavefront propagation to improve understanding the QRS complex changes indicating left ventricular hypertrophy. In *Journal of Electrocardiology*, 2016, vol. 49, no. 5, p. 755-762. (2015: 1.290 - IF, Q4 - JCR, 0.559 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0022-0736. Dostupné na: <https://doi.org/10.1016/j.jelectrocard.2016.05.007>
- ADCA112 TEPLAN, Michal - BAJLA, Ivan - ROSIPAL, Roman - RUSNAK, M. Feature clustering of intracranial pressure time series for alarm function estimation in traumatic brain injury. In *Physiological Measurement*, 2017, vol. 38, no. 11, p. 2015–2043. (2016: 2.058 - IF, Q2 - JCR, 0.689 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0967-3334. Dostupné na: <https://doi.org/10.1088/1361-6579/aa8a51>
- ADCA113 TOPOLNIAK, I. - VINCZE, A. - GARDETTE, J.-L. - HAŠKO, D. - ŠATKA, Alexander - THERIAS, S. - UHEREK, F. Surface analysis of EVOH and its nanocomposite photoageing: Particles effect. In *Vacuum*, 2017, vol. 138, p. 125-133. (2016: 1.530 - IF, Q3 - JCR, 0.550 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0042-207X. Dostupné na: <https://doi.org/10.1016/j.vacuum.2017.01.008>
- ADCA114 TRAFIMOW, D.\*\* - AMRHEIN, V.\*\* - ARESHENKOFF, C.N. - BARRERA-CAUSIL, C.J. - BEH, E.J. - BILGIÇ, Y.K. - BONO, R. - BRADLEY, M.T. - BRIGGS, W. - CEPEDA-FREYRE, H.A. - CHAIGNEAU, S.E. - CIOCCA, D.R. - CORREA, J.C. - COUSINEAU, D. - DE BOER, M.R. - DHAR, S.S. - DOLGOV, I. - GÓMEZ-BENITO, J. - GRENDÁR, Marián - GRICE, J.W. - GUERRERO-GIMENEZ, M.E. - GUTIÉRREZ, A. - HUEDO-MEDINA, T.B. - JAFFE, K. - JANYAN, A. - KARIMNEZHAD, A. - KORNER-NIEVERGELT, F. - KOSUGI, K. - LACHMAIR, M. - LEDESMA, R.D. - LIMONGI, R. - LIUZZA, M.T. - LOMBARDO, R. - MARKS, M.J. - MEINLSCHMIDT, G. - NALBORCZYK, L. - NGUYEN, H.T. - OSPINA, R. - PEREZGONZALEZ, J.D. - PFISTER, R. - RAHONA, J.J. - RODRÍGUEZ-MEDINA, D.A. - ROMÃO, X. - RUIZ-FERNÁNDEZ, S. - SUAREZ, I. - TEGETHOFF, M. - TEJO, M. - VAN DE SCHOOT, R. - VANKOV, I.I. - VELASCO-FORERO, S. - WANG, T. - YAMADA, Y. - ZOPPINO, F.C.M. - MARMOLEJO-RAMOS, F.\*\*. Manipulating the alpha level cannot cure significance testing. In *Frontiers in Psychology*, 2018, vol. 9, art. no. 699. (2017: 2.089 - IF, Q2 - JCR, 1.043 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1664-1078. Dostupné na: <https://doi.org/10.3389/fpsyg.2018.00699>
- ADCA115 TRATTNIG, S. - BOGNER, W. - GRUBER, S. - SZOMOLÁNYI, Pavol - JURÁŠ, Vladimír - ROBINSON, S. - ZBÝŇ, Š. - HANEDER, S. Clinical

applications at ultrahigh field (7T). Where does it make the difference? In *NMR in Biomedicine*, 2016, vol. 29, no. 9, p. 1316-1334. (2015: 2.983 - IF, Q1 - JCR, 1.624 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0952-3480. Dostupné na: <https://doi.org/10.1002/nbm.3272>

- ADCA116 TRAUSSNIGG, S. - KIENBACHER, Ch. - GAJDOŠÍK, M. - VALKOVIČ, Ladislav - HALILBASIC, E. - STIFT, J. - RECHLING, C. - HOFER, H. - STEINDL-MUNDA, P. - FERENCI, P. - WRBA, F. - TRATTNIG, S. - KRŠŠÁK, M. - TRAUNER, M. Ultra-high-field magnetic resonance spectroscopy in non-alcoholic fatty liver disease: Novel mechanistic and diagnostic insights of energy metabolism in non-alcoholic steatohepatitis and advanced fibrosis. In *Liver International*, 2017, vol. 37, no. 10, p. 1544-1553. (2016: 4.116 - IF, Q1 - JCR, 1.681 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 1478-3223. Dostupné na: <https://doi.org/10.1111/liv.13451>
- ADCA117 VALKOVIČ, Ladislav - CLARKE, W.T. - PURVIS, L.A.B. - SCHALLER, B. - ROBSON, M.D. - RODGERS, C.T. Adiabatic excitation for 31P MR spectroscopy in the human heart at 7 T: A feasibility study. In *Magnetic Resonance in Medicine*, 2017, vol. 78, no. 5, p. 1667-1673. (2016: 3.924 - IF, Q1 - JCR, 1.945 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0740-3194. Dostupné na: <https://doi.org/10.1002/mrm.26576>
- ADCA118 VALKOVIČ, Ladislav - CHMELÍK, M. - MEYERSPEER, M. - GAGOSKI, B. - RODGERS, C. - KRŠŠÁK, M. - ANDRONESI, O. - TRATTNIG, S. - BOGNER, W. Dynamic 31P -MRSI using spiral spectroscopic imaging can map mitochondrial capacity in muscles of the human calf during plantar flexion exercise at 7 T. In *NMR in Biomedicine*, 2016, vol. 29, no. 12, p. 1825-1834. (2015: 2.983 - IF, Q1 - JCR, 1.624 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0952-3480. Dostupné na: <https://doi.org/10.1002/nbm.3662>
- ADCA119 VALKOVIČ, Ladislav\*\* - LAU, J.Y.C. - ABDESSELAM, I. - RIDER, O. - FROLLO, Ivan - TYLER, D.J. - RODGERS, C.T. - MILLER, J.J.J. Effects of contrast agents on relaxation properties of 31P metabolites. In *Magnetic Resonance in Medicine*, 2021, vol. 85, no. 4, p. 1805-1813. (2020: 4.668 - IF, Q1 - JCR, 1.696 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 0740-3194. Dostupné na: <https://doi.org/10.1002/mrm.28541>
- ADCA120 VALKOVIČ, Ladislav - CHMELÍK, M. - KRŠŠÁK, M. In-vivo 31P-MRS of skeletal muscle and liver: A way for non-invasive assessment of their metabolism. In *Analytical Biochemistry*, 2017, vol. 529, p. 193-215. (2016: 2.334 - IF, Q2 - JCR, 0.719 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 0003-2697. Dostupné na: <https://doi.org/10.1016/j.ab.2017.01.018>
- ADCA121 VALKOVIČ, Ladislav\*\* - CLARKE, W.T. - SCHMID, A.I. - RAMAN, B. - ELLIS, J. - WATKINS, H. - ROBSON, M.D. - NEUBAUER, S. - RODGERS, C.T. Measuring inorganic phosphate and intracellular pH in the healthy and hypertrophic cardiomyopathy hearts by in vivo 7T 31P-cardiovascular magnetic resonance spectroscopy. In *Journal of Cardiovascular Magnetic Resonance*, 2019, vol. 21, p. 19. (2018: 5.070 - IF, Q1 - JCR, 2.896 - SJR, Q1 - SJR, Current Contents - CCC).

(2019 - Current Contents). ISSN 1097-6647. Dostupné na:  
<https://doi.org/10.1186/s12968-019-0529-4>

- ADCA122 VALKOVIČ, Ladislav - CHMELÍK, M. - UKROPCOVÁ, Barbara - HECKMANN, T. - BOGNER, W. - FROLLO, Ivan - TSCHAN, H. - KREBS, M. - BACHL, N. - UKROPEC, Jozef - TRATTNIG, S. - KRŠŠÁK, M. Skeletal muscle alkaline Pi pool is decreased in overweight-to-obese sedentary subjects and relates to mitochondrial capacity and phosphodiester content. In *Scientific Reports*, 2016, vol. 6, art. no. 20087. (2015: 5.228 - IF, Q1 - JCR, 2.034 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 2045-2322. Dostupné na:  
<https://doi.org/10.1038/srep20087>
- ADCA123 VIDLIČKA, Ľubomír\*\* - VRŠANSKÝ, Peter\* - KÚDELOVÁ, T. - KÚDELA, M. - DEHARVENG, L. - HAIN, Miroslav. New genus and species of cavernicolous cockroach (Blattaria, Nocticolidae) from Vietnam. In *Zootaxa*, 2017, vol. 4232, no. 3, p. 361-375. (2016: 0.972 - IF, Q3 - JCR, 0.365 - SJR, Q3 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 1175-5334. Dostupné na:  
<https://doi.org/10.11646/zootaxa.4232.3.5>
- ADCA124 WAMPL, S. - KÖRNER, T. - VALKOVIČ, Ladislav - TRATTNIG, S. - WOLZT, M. - MEYERSPEER, M. - SCHMID, A.I.\*\*. Investigating the effect of trigger delay on cardiac 31P MRS signals. In *Scientific Reports*, 2021, vol. 11, art. no. 9268. (2020: 4.380 - IF, Q1 - JCR, 1.240 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na:  
<https://doi.org/10.1038/s41598-021-87063-8>
- ADCA125 WATSON, W.D.\*\* - GREEN, P.G. - VALKOVIČ, Ladislav - HERRING, N. - NEUBAUER, S. - RIDER, O. Myocardial energy response to glyceryl trinitrate: Physiology revisited. In *Frontiers in Physiology*, 2021, vol. 12, art. no. 790525. (2020: 4.566 - IF, Q1 - JCR, 1.320 - SJR, Q2 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 1664-042X. Dostupné na:  
<https://doi.org/10.3389/fphys.2021.790525>
- ADCA126 WATSON, W.D.\*\* - MILLER, J.J.J. - LEWIS, A. - NEUBAUER, S. - TYLER, D. - RIDER, O. - VALKOVIČ, Ladislav. Use of cardiac magnetic resonance to detect changes in metabolism in heart failure. In *Cardiovascular Diagnosis and Therapy*, 2020, vol. 10, no. 3, p. 583-597. (2019: 2.615 - IF, Q2 - JCR, 0.767 - SJR, Q2 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 2223-3652. Dostupné na: <https://doi.org/10.21037/cdt.2019.12.13>
- ADCA127 WAWRUCH, M.\*\* - WIMMER, Gejza, ml. - MURIN, J. - PADUCHOVA, M. - TESAR, T.\*\* - HLINKOVA, L. - SLAVKOVSKY, P. - AARNIO, E. Factors associated with reinitiation of statin treatment in older patients with peripheral arterial disease. In *Drugs & Aging*, 2020, vol. 37, no. 8, p. 595-604. (2019: 2.824 - IF, Q2 - JCR, 0.912 - SJR, Q2 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 1170-229X. Dostupné na:  
<https://doi.org/10.1007/s40266-020-00772-z>
- ADCA128 WAWRUCH, M.\*\* - WIMMER, Gejza, ml. - MURIN, J. - PADUCHOVA, M. - PETROVA, M. - TESAR, T.\*\* - MATALOVA, P. - HAVELKOVA, B. -

TRNKA, M. - AARNIO, E. Non-adherence to statin treatment in older patients with peripheral arterial disease depending on persistence status. In *Biomedicines*, 2020, vol. 8, no. 10, p. 378-390. (2019: 4.717 - IF, Q1 - JCR, 1.508 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 2227-9059. Dostupné na: <https://doi.org/10.3390/biomedicines8100378>

ADCA129 WAWRUCH, M.\*\* - WIMMER, Gejza, ml. - MURIN, J. - PADUCHOVA, M. - TESAR, T.\*\* - HLINKOVA, L. - SLAVKOVSKY, P. - FÁBRYOVÁ, Ľubomíra - AARNIO, E. Patient-associated characteristics influencing the risk for non-persistence with statins in older patients with peripheral arterial disease. In *Drugs & Aging*, 2019, vol. 36, no. 9, p. 863-873. (2018: 2.846 - IF, Q2 - JCR, 1.128 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 1170-229X. Dostupné na: <https://doi.org/10.1007/s40266-019-00689-2>

ADCA130 YADAV, S.\*\* - KUŘITKA, Ivo - HAVLICA, Jaromír - HNATKO, Miroslav - CIGÁŇ, Alexander - MASILKO, J. - KALINA, L. - HAJDÚCHOVÁ, M. - RUSNÁK, Jaroslav - ENEV, V. Structural, magnetic, elastic, dielectric and electrical properties of hot-press sintered  $\text{Co}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$  ( $x=0.0, 0.5$ ) spinel ferrite nanoparticles. In *Journal of Magnetism and Magnetic Materials*, 2018, vol. 447, p. 48-57. (2017: 3.046 - IF, Q2 - JCR, 0.786 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2017.09.033>

ADCA131 YOUNG, L.A.J.\*\* - CERESA, C.D.L. - MÓZES, F.E. - ELLIS, J. - VALKOVIČ, Ladislav - COLLING, R. - COUSSIOS, C.C. - FRIEND, P.J. - RODGERS, C.T. Noninvasive assessment of steatosis and viability of cold-stored human liver grafts by MRI. In *Magnetic Resonance in Medicine*, 2021, vol. 86, no. 6, p. 3246–3258. (2020: 4.668 - IF, Q1 - JCR, 1.696 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 0740-3194. Dostupné na: <https://doi.org/10.1002/mrm.28930>

ADCA132 ZARIC, O. - JURÁŠ, Vladimír\*\* - SZOMOLÁNYI, Pavol - SCHREINER, M. - RAUDNER, M. - GIRAUDO, C. - TRATTNIG, S. Frontiers of sodium MRI revisited: From cartilage to brain imaging. In *Journal of Magnetic Resonance Imaging*, 2020, vol. 54, no. 1, p. 58-75. (2019: 3.954 - IF, Q1 - JCR, 1.535 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 1053-1807. Dostupné na: <https://doi.org/10.1002/jmri.27326>

ADCA133 ZBÝŇ, Š.\*\* - SCHREINER, M. - JURÁŠ, Vladimír - MLYNÁRIK, V. - SZOMOLÁNYI, Pavol - LAURENT, D. - SCOTTI, C. - HABER, H. - DELIGIANNI, X. - BIERI, O. - NIEMINEN, M.T. - TRATTNIG, S. Assessment of low-grade focal cartilage lesions in the knee with sodium MRI at 7 T: Reproducibility and short-term, 6-month follow-up data. In *Investigative Radiology*, 2020, vol. 55, no. 7, p. 430-437. (2019: 5.156 - IF, Q1 - JCR, 2.564 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0020-9996. Dostupné na: <https://doi.org/10.1097/RLI.0000000000000652>

ADCA134 ZBÝŇ, Š. - MLYNÁRIK, V. - JURÁŠ, Vladimír - SZOMOLÁNYI, Pavol - TRATTNIG, S. Evaluation of cartilage repair and osteoarthritis with sodium MRI. In *NMR in Biomedicine*, 2016, vol. 29, no. 2, p. 206-215. (2015: 2.983 - IF, Q1 -

JCR, 1.624 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents).  
ISSN 0952-3480. Dostupné na: <https://doi.org/10.1002/nbm.3280>

**ADCB Scientific papers in foreign journals registered in Current Contents Connect without IF (non-impacted)**

ADCB01 CHVOSTEKOVÁ, Martina\*\* - KRAKOVSKÁ, Anna. Letter to the editor of Heliyon re: Grassmann, G. "New considerations on the validity of the Wiener-Granger causality test" [Heliyon 6 (2020)e05208]. In *Heliyon*, 2021, vol. 7, no. 9, e07948. (2020: 0.455 - SJR, Q1 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 2405-8440. Dostupné na: <https://doi.org/10.1016/j.heliyon.2021.e07948>

**ADDA Scientific papers in domestic journals registered in Current Contents Connect with IF (impacted)**

ADDA01 ANDRIS, Peter\*\* - DERMEK, Tomáš - FROLLO, Ivan. Calibration of NMR receiver using spectrometer characteristics. In *Measurement Science Review*, 2021, vol. 21, no. 6, p. 205-208. (2020: 1.319 - IF, Q4 - JCR, 0.301 - SJR, Q3 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 1335-8871. Dostupné na: <https://doi.org/10.2478/msr-2021-0028>

ADDA02 ANDRIS, Peter\*\* - FROLLO, Ivan. Sensitivity analysis of the simply noise-matched receiving coil for NMR experiments. In *Measurement Science Review*, 2020, vol. 20, no. 5, p. 236-240. (2019: 0.900 - IF, Q4 - JCR, 0.326 - SJR, Q3 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 1335-8871. Dostupné na: <https://doi.org/10.2478/msr-2020-0030>

ADDA03 BAČIAK, Ladislav - MELICHERCIK, Lubomir - MATĚ, Veronika - MURGOČI, Adriana-Natalia - SMOLEK, Tomáš - JURÁNEK, Ivo - GOGOLA, Daniel - HUDÁKOVÁ, Nikola - ČÍŽEK, Milan - ČÍŽKOVÁ, Dáša\*\*. Improved tissue integrity after alginate treatment in rat spinal cord injury: evidence from ex vivo diffusion tensor imaging. In *General Physiology and Biophysics*, 2021, vol. 40, no. 6, p. 561-568. (2020: 1.512 - IF, Q4 - JCR, 0.376 - SJR, Q3 - SJR, Current Contents - CCC). (2021 - Current Contents). ISSN 0231-5882. Dostupné na: [https://doi.org/10.4149/gpb\\_2021030](https://doi.org/10.4149/gpb_2021030)

ADDA04 GOGOLA, Daniel\*\* - SZOMOLÁNYI, Pavol - ŠKRÁTEK, Martin - FROLLO, Ivan. Design and construction of novel instrumentation for low-field MR tomography. In *Measurement Science Review*, 2018, vol. 18, no. 3, p. 107-112. (2017: 1.345 - IF, Q3 - JCR, 0.441 - SJR, Q2 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1335-8871. Dostupné na: <https://doi.org/10.1515/msr-2018-0016>

ADDA05 CHVOSTEKOVÁ, Martina. Multiple use confidence intervals for a univariate statistical calibration. In *Measurement Science Review*, 2019, vol. 19, no. 6, p. 264-270. (2018: 1.122 - IF, Q4 - JCR, 0.325 - SJR, Q2 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 1335-8871. Dostupné na: <https://doi.org/10.2478/msr-2019-0034>

ADDA06 KRAFČÍK, Andrej\*\* - BABINEC, P. - BABINCOVÁ, M. - FROLLO, Ivan. Importance of basset history force for the description of magnetically driven motion



of magnetic particles in air. In *Measurement Science Review*, 2020, vol. 20, no. 2, p. 50-58. (2019: 0.900 - IF, Q4 - JCR, 0.326 - SJR, Q3 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 1335-8871. Dostupné na: <https://doi.org/10.2478/msr-2020-0007>

ADDA07 PŘIBIL, Jiří\*\* - PŘIBILOVÁ, Anna - FROLLO, Ivan. Analysis of influence of coil gradient system on vibration properties and acoustic noise level generated by the low field MRI device. In *Measurement Science Review*, 2018, vol. 18, no. 5, p. 193-200. (2017: 1.345 - IF, Q3 - JCR, 0.441 - SJR, Q2 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1335-8871. Dostupné na: <https://doi.org/10.1515/msr-2018-0027>

ADDA08 ROŠŤÁKOVÁ, Zuzana\*\* - ROSIPAL, Roman - SEIFPOUR, Saman - TREJO, L.J. A comparison of non-negative tucker decomposition and parallel factor analysis for identification and measurement of human EEG rhythms. In *Measurement Science Review*, 2020, vol. 20, no. 3, p. 126-138. (2019: 0.900 - IF, Q4 - JCR, 0.326 - SJR, Q3 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 1335-8871. Dostupné na: <https://doi.org/10.2478/msr-2020-0015>

ADDA09 ROŠŤÁKOVÁ, Zuzana\*\* - ROSIPAL, Roman. Time alignment as a necessary step in the analysis of sleep probabilistic curves. In *Measurement Science Review*, 2018, vol. 18, no. 1, p. 1-6. (2017: 1.345 - IF, Q3 - JCR, 0.441 - SJR, Q2 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1335-8871. Dostupné na: <https://doi.org/10.1515/msr-2018-0001>

ADDA10 ŠIMON, Erik\*\* - BILLIK, Peter - OROVČÍK, Lubomír - NAGY, Štefan - SASINKOVÁ, Vlasta - PALOU, Martin T. - ŠKRÁTEK, Martin - NAGY - TREMBOŠOVÁ, Veronika, rod. Trembošová - PLESCH, G. Aluminium powder as a reactive template for preparation of carbon flakes from CCl<sub>4</sub>. In *Chemical Papers*, 2020, vol. 74, iss. 12, p. 4599-4607. (2019: 1.680 - IF, Q3 - JCR, 0.331 - SJR, Q2 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1007/s11696-020-01303-1>

ADDA11 VRŠANSKÝ, Peter - SENDI, Hemen - HINKELMAN, Jan\*\* - HAIN, Miroslav. Alienopterix Mlynský et al., 2018 complex in North Myanmar amber supports Umenocoleoidea/ae status. In *Biologia*, 2021, vol. 76, no. 8, p. 2207-2224. (2020: 1.350 - IF, Q4 - JCR, 0.282 - SJR, Q3 - SJR, Current Contents - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0006-3088. Dostupné na: <https://doi.org/10.1007/s11756-021-00689-x>

ADDA12 WITKOVSKÝ, Viktor\*\* - FROLLO, Ivan. Measurement science is the science of sciences - there is no science without measurement. In *Measurement Science Review*, 2020, vol. 20, no. 1, p. 1-5. (2019: 0.900 - IF, Q4 - JCR, 0.326 - SJR, Q3 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 1335-8871. Dostupné na: <https://doi.org/10.2478/msr-2020-0001>

#### **ADEB Scientific papers in other foreign journals not registered in Current Contents Connect without IF (non-impacted)**

ADEB01 BARTL, Ján. Analýza deformácií metódou moirè. In *Jemná mechanika a optika*, 2017, roč. 62, č. 6-7, s. 171-174. ISSN 0447-6441.

- ADEB02 BARTL, Ján. Výber materiálov pre infračervenú oblasť. In *Jemná mechanika a optika*, 2017, roč. 62, č. 4, s. 114 -118. ISSN 0447-6441.
- ADEB03 BARTL, Ján. Zariadenie na kalibráciu nastavných krúžkov. In *Jemná mechanika a optika*, 2018, roč. 63, č. 3, s. 75-77. ISSN 0447-6441.
- ADEB04 CAPEK, Ignác. Gold nanoparticles in cancer cell lines. In *International Journal of General Medicine and Pharmacy*, 2016, special edition, p. 1-14. ISSN 2319-3999.
- ADEB05 CAPEK, Ignác. Nanoparticulate carriers of anticancer drugs and therapeutics. In *Advances in Cancer Research & Clinical Imaging*, 2018, vol. 1, no. 3. ISSN 2688-8203. Dostupné na: <https://doi.org/10.33552/ACRCI.2019.01.000515>
- ADEB06 CAPEK, Ignác. Noble metal nanoparticles and their (bio) conjugates. I. Preparation. In *International Journal of Chemistry*, 2016, vol. 8, no. 1, p. 74-85. ISSN 1916-9701.
- ADEB07 CAPEK, Ignác. Noble metal nanoparticles and their (bio) conjugates. II. Preparation. In *International Journal of Chemistry*, 2016, vol. 8, no. 1, p. 86-101. ISSN 1916-9701.
- ADEB08 CAPEK, Ignác\*\*. Smart hybrid nanomaterials based on silica/ and metal ions/nanoparticles conjugates for biosensing. In *Research & Development in Material Science : open access*, 2019, vol. 10, iss. 1, [14] p. ISSN 2576-8840. Dostupné na: <https://doi.org/10.31031/RDMS.2019.09.000728>
- ADEB09 ĎURIŠ, S. - ĎURIŠOVÁ, Z. - PALEŇČÁR, J. - PAVLÁSEK, P. - WIMMER, Gejza - WITKOVSKÝ, Viktor. Evaluation of gas mixture components dosing using the gravimetric method for preparation of primary reference material of ethanol in nitrogen. In *Izmeriteľ'naja tehnika*, 2019, no. 4, p. 14-18. ISSN 0368-1025. Dostupné na: <https://doi.org/10.32446/0368-1025it.2019-4-14-18>
- ADEB10 EDER, J.\*\* - SCHMID-SCHWAP, M. - SZOMOLÁNYI, Pavol - BRISTELA, M. - SKOLKA, A. - PIEHSLINGER, E. - TRATTNIG, S. Detection of degenerative changes in the articular disc of the temporomandibular joint using delayed gadolinium-enhanced MRI at 3 Tesla – a case report. In *The Journal of Dentist*, 2018, vol. 6, p. 17-19. ISSN 2311-8695.
- ADEB11 HAIN, Miroslav - BARTL, Ján. Evaluation of profile shape in the device of the light-cut. In *Jemná mechanika a optika*, 2016, roč. 61, č. 3, s. 82-85. ISSN 0447-6441.
- ADEB12 KLEMBARA, J.\*\* - MIKUDÍKOVÁ, M. - ŠTAMBERG, S. - HAIN, Miroslav. First record of the stem amniote *Discosauriscus* (Seymouriamorpha, Discosauriscidae) from the Krkonoše Piedmont Basin (the Czech Republic). In *Fossil Imprint*, 2020, vol. 76, no. 2, p. 243-251. (2019: 0.395 - SJR, Q3 - SJR). ISSN 2533-4050.

ADEB13 STOJKOVIČOVÁ, D. - BARTL, Ján - HAIN, Miroslav. Poznatky z fyzikálneho prieskumu oltárnych malieb baziliky povýšenia Sv. Kríža v Kežmarku. In *Jemná mechanika a optika*, 2017, roč. 62, č. 8-9, s. 223-230. ISSN 0447-6441.

ADEB14 TRINCA, Dragos Narcis. Hybrid CPU-GPU parallelization of tomographic reconstruction algorithms in Version 1.2 of the IRXCT Windows application. In *e-Journal of Nondestructive Testing (NDT)*, 2020, no. 5, 10 p. ISSN 1435-4934. Dostupné na internete: <[https://www.ndt.net/article/ndtnet/papers/Hybrid\\_CPU-GPU\\_Parallelization\\_of\\_Tomographic\\_Reconstruction\\_Algorithms\\_in\\_Version\\_1.2\\_of\\_the\\_IRXCT\\_Windows\\_Application.pdf](https://www.ndt.net/article/ndtnet/papers/Hybrid_CPU-GPU_Parallelization_of_Tomographic_Reconstruction_Algorithms_in_Version_1.2_of_the_IRXCT_Windows_Application.pdf)>

ADEB15 WIMMER, Gejza - WITKOVSKÝ, Viktor. Analysis of the uncertainty in length measurement during the calibration of gauge block on the example of S4 from document EA-4/02 M:2013. In *Izmeriteľ'naja tehnika*, 2019, no. 4, p. 19-25. ISSN 0368-1025. Dostupné na: <https://doi.org/10.32446/0368-1025it.2019-4-19-25>

#### **ADMA Scientific papers in foreign impacted journals registered in Web of Sciences or Scopus**

ADMA01 CLUITMANS, M.\*\* - BROOKS, D.H. - MACLEOD, R. - DOSSEL, O. - GUILLEM, M.S. - VAN DAM, P.M. - ŠVEHLÍKOVÁ, Jana - HE, B. - SAPP, J. - WANG, L. - BEAR, L.\*\*. Validation and opportunities of electrocardiographic imaging: From technical achievements to clinical applications. In *Frontiers in Physiology*, 2018, vol. 9, art. no. 1305. (2017: 3.394 - IF, Q1 - JCR, 1.590 - SJR, Q1 - SJR). ISSN 1664-042X. Dostupné na: <https://doi.org/10.3389/fphys.2018.01305>

ADMA02 CHVOSTEKOVÁ, Martina. Confidence band for percentile line in multiple linear regression. In *Communications in Statistics - Simulation and Computation*, 2017, vol. 46, no. 5, p. 3933-3941. (2016: 0.457 - IF, Q4 - JCR, 0.611 - SJR, Q2 - SJR). ISSN 0361-0918. Dostupné na: <https://doi.org/10.1080/03610918.2015.1060333>

ADMA03 JANUSEK, D.\*\* - ŠVEHLÍKOVÁ, Jana - ZELINKA, Ján - WEIGL, W. - ZACZEK, R. - OPOLSKI, G. - TYŠLER, Milan - MANIEWSKI, R. The roles of mid-myocardial and epicardial cells in T-wave alternans development: A simulation study. In *BioMedical Engineering OnLine*, 2018, vol. 17, no. 1, p. 57. (2017: 1.676 - IF, Q3 - JCR, 0.542 - SJR, Q2 - SJR). (2018 - WOS, Scopus). ISSN 1475-925X. Dostupné na: <https://doi.org/10.1186/s12938-018-0492-6>

ADMA04 JURÁŠ, Vladimír\*\* - SZOMOLÁNYI, Pavol - SCHREINER, M. - UNTERBERGER, K. - KUREKOVA, A. - HAGER, B. - LAURENT, D. - RAITHEL, E. - MEYER, H. - TRATTNIG, S. Reproducibility of an automated quantitative MRI assessment of low-grade knee articular cartilage lesions. In *Cartilage*, 2021, vol. 13, suppl. 1, p. 646S-657S. (2020: 4.634 - IF, Q1 - JCR, 0.705 - SJR, Q2 - SJR). ISSN 1947-6035. Dostupné na: <https://doi.org/10.1177/1947603520961165>

ADMA05 KLEPOCHOVÁ, R.\* - VALKOVIČ, Ladislav\* - HOCHWARTNER, T. - TRISKA, C. - BACHL, N. - TRATTNIG, S. - KREBS, M. - KRŠŠÁK, M.\*\*. Differences in muscle metabolism between triathletes and normally active

volunteers investigated using multinuclear magnetic resonance spectroscopy at 7T. In *Frontiers in Physiology*, 2018, vol. 9, art. no. 300. (2017: 3.394 - IF, Q1 - JCR, 1.590 - SJR, Q1 - SJR). ISSN 1664-042X. Dostupné na: <https://doi.org/10.3389/fphys.2018.00300>

ADMA06 KLUKNAVSKÝ, Michal - BALIŠ, Peter - ŠKRÁTEK, Martin - MAŇKA, Ján - BERNÁTOVÁ, Iveta\*\*. (-)-Epicatechin reduces the blood pressure of young borderline hypertensive rats during the post-treatment period. In *Antioxidants*, 2020, vol. 9, no. 2, article no. 96. (2019: 5.014 - IF, Q1 - JCR, 1.100 - SJR, Q1 - SJR). (2020 - WOS, SCOPUS). ISSN 2076-3921. Dostupné na: <https://doi.org/10.3390/antiox9020096>

ADMA07 KRUMPOLEC, Patrik\* - KLEPOCHOVÁ, R.\* - JUST, Ivica - JELENC, M.T. - FROLLO, Ivan - UKROPEC, Jozef - UKROPCOVÁ, Barbara - TRATTNIG, S. - KRŠŠÁK, M.\*\* - VALKOVIČ, Ladislav. Multinuclear MRS at 7T uncovers exercise driven differences in skeletal muscle energy metabolism between young and seniors. In *Frontiers in Physiology*, 2020, vol. 11, art.no. 644. (2019: 3.367 - IF, Q1 - JCR, 1.211 - SJR, Q2 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 1664-042X. Dostupné na: <https://doi.org/10.3389/fphys.2020.00644>

ADMA08 MAJEROVÁ, Melinda\*\* - KLEMENT, R. - PRNOVÁ, Anna - KRAXNER, J. - BRUNEEL, E. - GALUSEK, Dušan. Crystallization and visible–near-infrared luminescence of Bi-doped gehlenite glass. In *Royal Society Open Science*, 2018, vol. 5, no. 12, p. 181667. (2017: 2.504 - IF, Q2 - JCR, 1.237 - SJR, Q1 - SJR). ISSN 2054-5703. Dostupné na: <https://doi.org/10.1098/rsos.181667>

ADMA09 MICHAIL, G. - DRESEL, C. - WITKOVSKÝ, Viktor - STANKEWITZ, A. - SCHULZ, E. Neuronal oscillations in various frequency bands differ between pain and touch. In *Frontiers in Human Neuroscience*, 2016, vol. 10, art. no. 182. (2015: 3.634 - IF, Q1 - JCR, 1.964 - SJR, Q1 - SJR). ISSN 1662-5161. Dostupné na: <https://doi.org/10.3389/fnhum.2016.00182>

ADMA10 PEZZUTO, S. - KALAVSKÝ, Peter - POTSE, M. - PRINZEN, F.W. - AURICCHIO, A. - KRAUSE, R. Evaluation of a Rapid Anisotropic Model for ECG Simulation. In *Frontiers in Physiology*, 2017, vol. 8, p. 265. (2016: 4.134 - IF, Q1 - JCR, 1.814 - SJR, Q1 - SJR). ISSN 1664-042X. Dostupné na: <https://doi.org/10.3389/fphys.2017.00265>

ADMA11 PŘIBIL, Jiří\*\* - PŘIBILOVÁ, Anna - FROLLO, Ivan. Analysis of the influence of different settings of scan sequence parameters on vibration and noise generated in the open-air MRI scanning area. In *Sensors*, 2019, vol. 19, no. 19, p. 4198. (2018: 3.031 - IF, Q1 - JCR, 0.592 - SJR, Q2 - SJR). ISSN 1424-8220. Dostupné na: <https://doi.org/10.3390/s19194198>

ADMA12 PŘIBIL, Jiří - PŘIBILOVÁ, Anna - MATOUŠEK, J. Automatic text-independent artifact detection, localization, and classification in synthetic speech. In *Radioengineering*, 2017, vol. 26, no. 4, p. 1151-1160. (2016: 0.945 - IF, Q4 - JCR, 0.259 - SJR, Q3 - SJR). ISSN 1210-2512. Dostupné na: <https://doi.org/10.13164/re.2017.1151>

ADMA13 PŘIBIL, Jiří\*\* - PŘIBILOVÁ, Anna - FROLLO, Ivan. Vibration and noise in magnetic resonance imaging of the vocal tract: Differences between whole-body and open-air devices. In *Sensors*, 2018, vol. 18, no. 4, p. 1112. (2017: 2.475 - IF, Q2 - JCR, 0.584 - SJR, Q2 - SJR). ISSN 1424-8220. Dostupné na: <https://doi.org/10.3390/s18041112>

ADMA14 PURVIS, L.A.B. - CLARKE, W.T. - BIASIOLLI, L. - VALKOVIČ, Ladislav - ROBSON, M.D. - RODGERS, C.T. OXSA: An open-source magnetic resonance spectroscopy analysis toolbox in MATLAB. In *PLoS ONE*, 2017, vol. 12, no. 9, art. no. e0185356. (2016: 2.806 - IF, Q1 - JCR, 1.236 - SJR, Q1 - SJR). ISSN 1932-6203. Dostupné na: <https://doi.org/10.1371/journal.pone.0185356>

ADMA15 SCHULZ, E.\*\* - STANKEWITZ, A. - WINKLER, A.M. - IRVING, S. - WITKOVSKÝ, Viktor - TRACEY, I. Ultra-high-field imaging reveals increased whole brain connectivity underpins cognitive strategies that attenuate pain. In *eLife*, 2020, vol. 9, p. e55028. (2019: 7.080 - IF, Q1 - JCR, 6.079 - SJR, Q1 - SJR). ISSN 2050-084X. Dostupné na: <https://doi.org/10.7554/eLife.55028>

ADMA16 ŠEDIVÝ, P. - DEZORTOVÁ, M. - RYDLO, J. - DROBNÝ, M. - KRŠŠÁK, M. - VALKOVIČ, Ladislav - HÁJEK, M.\*\*. MR compatible ergometers for dynamic 31P MRS. In *Journal of Applied Biomedicine*, 2019, vol. 17, no. 2, p. 91-98. (2018: 1.573 - IF, Q4 - JCR, 0.335 - SJR, Q2 - SJR). ISSN 1214-021X. Dostupné na: <https://doi.org/10.32725/jab.2019.006>

ADMA17 VALKOVIČ, Ladislav - DRAGONU, I. - ALMUJAYYAZ, S. - BATZAKIS, A. - YOUNG, L.A.J. - PURVIS, L.A.B. - CLARKE, W.T. - WICHMANN, T. - LANZ, T. - NEUBAUER, S. - ROBSON, M.D. - KLOMP, D.W.J. - RODGERS, C.T. Using a whole-body 31P birdcage transmit coil and 16-element receive array for human cardiac metabolic imaging at 7T. In *PLoS ONE*, 2017, vol. 12, no. 10, art. no. e0187153. (2016: 2.806 - IF, Q1 - JCR, 1.236 - SJR, Q1 - SJR). ISSN 1932-6203. Dostupné na: <https://doi.org/10.1371/journal.pone.0187153>

ADMA18 WITKOVSKÝ, Viktor. Computing the exact distribution of the Bartlett's test statistic by numerical inversion of its characteristic function. In *Journal of Applied Statistics*, 2020, vol. 47, no. 13-15, p. 2749-2764. (2019: 1.031 - IF, Q3 - JCR, 0.528 - SJR, Q3 - SJR). ISSN 0266-4763. Dostupné na: <https://doi.org/10.1080/02664763.2019.1675608>

#### **ADMB Scientific papers in foreign non-impacted journals registered in Web of Sciences or Scopus**

ADMB01 BEAR, L.\*\* - DOGRUSOZ, Y.S.\* - ŠVEHLÍKOVÁ, Jana\* - COLL-FONT, J.\* - GOOD, W.\* - VAN DAM, E. - MACLEOD, R.\* - ABELL, E.\* - WALTON, R.\* - CORONEL, R.\* - HAISSAGUERRE, M.\* - DUBOIS, R.\*. Effects of ECG signal processing on the inverse problem of electrocardiography. In *Computing in Cardiology*, 2019, vol. 45, 4 p. (2018: 0.202 - SJR). ISSN 2325-8861. Dostupné na: <https://doi.org/10.22489/CinC.2018.070>

ADMB02 BEAR, L.\*\* - ŠVEHLÍKOVÁ, Jana - BERGQUIST, J.A. - GOOD, W. - RABABAH, A. - COLL-FONT, J. - MACLEOD, R.S. - VAN DAM, E. - DUBOIS,

R. Impact of baseline drift removal on ECG beat classification and alignment. In *Computing in Cardiology*, 2021, vol. 48. (2020: 0.257 - SJR). ISSN 2325-8861. Dostupné na: <https://doi.org/10.22489/CinC.2021.022>

- ADMB03 BERETA, Martin\*\* - TEPLAN, Michal - CHAFAI, D. - CIFRA, M. Biological autoluminescence as a non-invasive monitoring tool for pulsed electric field effects on yeast cells. In *2020 33rd General Assembly and Scientific Symposium of the International Union of Radio Science*. - IEEE, 2020, 3 p. ISBN 9781728156903. Dostupné na: <https://doi.org/10.23919/URSIGASS49373.2020.9232161>
- ADMB04 COCHEROVÁ, Elena\*\* - ŠVEHLÍKOVÁ, Jana - TYŠLER, Milan. Activation propagation in cardiac ventricles using the model with the conducting system. In *IFMBE Proceedings*, 2019, vol. 68, no. 1, p. 799-802. (2018: 0.150 - SJR). ISSN 1680-0737. Dostupné na: [https://doi.org/10.1007/978-981-10-9035-6\\_147](https://doi.org/10.1007/978-981-10-9035-6_147)
- ADMB05 DEUTSCH, E.\*\* - ŠVEHLÍKOVÁ, Jana - TYŠLER, Milan - OSMANČÍK, P. - ŽĎÁRSKÁ, J. - KNEPPO, P. Effect of elimination of noisy ECG leads on the noninvasive localization of the focus of premature ventricular complexes. In *IFMBE Proceedings*, 2019, vol. 68, no. 1, p. 75-79. (2018: 0.150 - SJR). ISSN 1680-0737. Dostupné na: [https://doi.org/10.1007/978-981-10-9035-6\\_14](https://doi.org/10.1007/978-981-10-9035-6_14)
- ADMB06 DOGRUSOZ, Y.S.\*\* - BEAR, L.\* - ŠVEHLÍKOVÁ, Jana\* - GOOD, W.\* - COLL-FONT, J.\* - VAN DAM, E.\* - DUBOIS, R.\* - MACLEOD, R.\*. Reduction of effects of noise on the inverse problem of electrocardiography with Bayesian estimation. In *Computing in Cardiology*, 2018, vol. 45, 4 p. (2017: 0.191 - SJR). ISSN 2325-8861. Dostupné na: <https://doi.org/10.22489/CinC.2018.309>
- ADMB07 ĎURIŠ, S. - ĎURIŠOVÁ, Z. - PALENČÁR, J. - PAVLÁSEK, P. - WIMMER, Gejza\*\* - WITKOVSKÝ, Viktor. Alternative methods for determination of certified value and its uncertainty: Case study of using the gravimetric method for preparation of gaseous primary reference material of ethanol in nitrogen at the Slovak Institute of Metrology. In *Measurement Techniques*, 2019, vol. 62, no. 4, p. 312-318. (2018: 0.151 - SJR, Q4 - SJR). ISSN 0543-1972. Dostupné na: <https://doi.org/10.1007/s11018-019-01623-z>
- ADMB08 CHVOSTEKOVÁ, Martina. Modified Granger causality in selected neighborhoods. In *ITISE 2018 : International Conference on Time Series and Forecasting*. - Granada, Spain : Godel Impresiones Digitales, S.L., 2018, p. 614-624. ISBN 978-84-17293-57-4. *Theory and Applications of Time Series Analysis : Selected Contributions from ITISE 2018*. - Springer, 2019, p. 31-42. ISBN 978-3-030-26035-4. ISSN 1431-1968. Dostupné na: [https://doi.org/10.1007/978-3-030-26036-1\\_3](https://doi.org/10.1007/978-3-030-26036-1_3)
- ADMB09 JURÁŠ, Vladimír\*\* - MLYNÁRIK, V. - SZOMOLÁNYI, Pavol - VALKOVIČ, Ladislav - TRATTNIG, S. Magnetic resonance imaging of the musculoskeletal system at 7T: Morphological imaging and beyond. In *Topics in Magnetic Resonance Imaging*, 2019, vol. 28, no. 3, p. 125-135. (2018: 0.601 - SJR, Q2 - SJR). ISSN 0899-3459. Dostupné na: <https://doi.org/10.1097/RMR.0000000000000205>

- ADMB10 KHUNOVÁ, V. - PAVLIŇÁKOVÁ, V. - ŠKRÁTEK, Martin - ŠAFARÍK, I. - PAVLIŇÁK, D. Magnetic halloysite reinforced biodegradable nanofibres: New challenge for medical applications. In *AIP Conference Proceedings*, 2018, vol. 1981, p. 020074. (2017: 0.165 - SJR). (2018 - SCOPUS, WOS). ISSN 0094-243X. Dostupné na: <https://doi.org/10.1063/1.5045936>
- ADMB11 MYŠLAN, P.\*\* - RUŽIČKA, P. - MIKUŠ, Tomáš - HAIN, Miroslav. 3D distribúcia minerálnych inklúzií v granátoch z lokalít Lesné - Potičky a Beňatinská voda (Slovenská republika) [3D distribution of mineral inclusions in garnets from the localities Lesné - Potičky and Beňatinská voda (Slovak Republic)]. In *Bulletin mineralogie petrologie*, 2020, roč. 28, č. 2, s. 246-260. (2019: 0.195 - SJR, Q3 - SJR). ISSN 1211-0329. Dostupné na: <https://doi.org/10.46861/bmp.28.246>
- ADMB12 ONDRUŠOVÁ, Beáta\*\* - ŠVEHLÍKOVÁ, Jana - ZELINKA, Ján - TYŠLER, Milan - TIŇO, P. Model-Based Relevance of Measuring Electrodes for the Inverse Solution with a Single Dipole. In *Computing in Cardiology*, 2021, vol. 48. (2020: 0.257 - SJR). ISSN 2325-8861. Dostupné na: <https://doi.org/10.22489/CinC.2021.077>
- ADMB13 PŘIBIL, Jiří - PŘIBILOVÁ, Anna - MATOUŠEK, J. Artefact determination by GMM-based continuous detection of emotional changes in synthetic speech. In *42th International Conference on Telecommunications and Signal Processing (TSP 2019)*. - Brno, Czech Republic : Faculty of Electrical Engineering and Communication, Brno University of Technology, 2019, p. 45-48. ISBN 978-1-7281-1864-2. Dostupné na: <https://doi.org/10.1109/TSP.2019.8768826>
- ADMB14 PŘIBIL, Jiří - PŘIBILOVÁ, Anna - MATOUŠEK, J. Automatic classification of types of artefacts arising during the unit selection speech synthesis. In *Lecture Notes in Computer Science : 20th International Conference on Text, Speech and Dialogue, TSD 2017*, 2017, vol. 10415, p. 38-46. (2016: 0.339 - SJR, Q2 - SJR). ISSN 0302-9743. Dostupné na: [https://doi.org/10.1007/978-3-319-64206-2\\_5](https://doi.org/10.1007/978-3-319-64206-2_5)
- ADMB15 PŘIBIL, Jiří - PŘIBILOVÁ, Anna - FROLLO, Ivan. Automatic GMM-based evaluation of noise suppression in the speech signal recorded during phonation in the open-air MRI. In *40th International Conference on Telecommunications and Signal Processing (TSP 2017)*. - Brno, Czech Republic : Faculty of Electrical Engineering and Communication, Brno University of Technology, 2017, 2017, p. 350-353. ISBN 978-1-5090-3982-1. Dostupné na: <https://doi.org/10.1109/TSP.2017.8076003>
- ADMB16 PŘIBIL, Jiří\*\* - PŘIBILOVÁ, Anna - MATOUŠEK, J. Automatic evaluation of synthetic speech quality by a system based on statistical analysis. In *Lecture Notes in Computer Science : 21st International Conference TSD 2018*, 2018, vol. 11107, p. 315-323. (2017: 0.295 - SJR, Q2 - SJR). ISSN 0302-9743. Dostupné na: [https://doi.org/10.1007/978-3-030-00794-2\\_34](https://doi.org/10.1007/978-3-030-00794-2_34)
- ADMB17 PŘIBIL, Jiří - PŘIBILOVÁ, Anna - MATOUŠEK, J. Evaluation of synthetic speech quality by statistical analysis of voiced and unvoiced part durations. In *41st International Conference on Telecommunications and Signal Processing (TSP 2018)*. - Brno, Czech Republic : Faculty of Electrical Engineering and

Communication, Brno University of Technology, 2018, p. 396-399. ISBN 978-1-5386-4695-3. Dostupné na: <https://doi.org/10.1109/TSP.2018.8441352>

- ADMB18 PŘIBIL, Jiří - PŘIBILOVÁ, Anna - FROLLO, Ivan. Experiment with stress detection in phonation signal recorded in open-air MRI device. In *44th International Conference on Telecommunications and Signal Processing (TSP 2021)*. - Brno, Czech Republic : Faculty of Electrical Engineering and Communication, Brno University of Technology, 2021, 2021, p. 38-41. ISBN 978-1-6654-2933-7. Dostupné na: <https://doi.org/10.1109/TSP52935.2021.9522619>
- ADMB19 PŘIBIL, Jiří - PŘIBILOVÁ, Anna - FROLLO, Ivan. Influence of the human body mass in the open-air MRI on acoustic noise spectrum. In *Acta IMEKO*, 2016, vol. 5, no. 3, p. 81-86. (2015: 0.136 - SJR, Q4 - SJR). (2016 - SCOPUS). ISSN 2221-870X. Dostupné na internete: <<https://acta.imeko.org/index.php/acta-imeko/article/view/IMEKO-ACTA-05%20%282016%29-03-13>>
- ADMB20 PŘIBIL, Jiří - PŘIBILOVÁ, Anna - MATOUŠEK, J. Synthetic speech evaluation by 2D GMM classification in Pleasure-Arousal scale. In *43rd International Conference on Telecommunications and Signal Processing (TSP 2020)*. - Brno, Czech Republic : Faculty of Electrical Engineering and Communication, Brno University of Technology, 2020, 2020, p. 10-13. ISBN 978-1-7281-6376-5. Dostupné na: <https://doi.org/10.1109/TSP49548.2020.9163559>
- ADMB21 PŘIBIL, Jiří\*\* - PŘIBILOVÁ, Anna - MATOUŠEK, J. Synthetic speech evaluation by differential maps in pleasure-arousal space. In *Lecture Notes in Computer Science : 22nd International Conference SPECOM 2020*, 2020, vol. 12335, p. 424-434. (2019: 0.427 - SJR, Q2 - SJR). ISSN 0302-9743. Dostupné na: [https://doi.org/10.1007/978-3-030-60276-5\\_41](https://doi.org/10.1007/978-3-030-60276-5_41)
- ADMB22 PŘIBIL, Jiří - PŘIBILOVÁ, Anna - FROLLO, Ivan. Wearable PPG sensor with bluetooth data transmission for continual measurement in low magnetic field environment. In *2021 International Conference on Applied Electronics*. - Pilsen, Czech Republic : University of West Bohemia, 2021, 2021, p. 137-140. (2020: 0.137 - SJR). ISBN 978-80-261-0972-3. ISSN 1803-7232. Dostupné na: <https://doi.org/10.23919/AE51540.2021.9542901>
- ADMB23 RADIL, R. - BARABAS, J. - JANOUSEK, L. - BERETA, Martin. Frequency dependent alterations of *S. Cerevisiae* proliferation due to LF EMF exposure. In *Advances in Electrical and Electronic Engineering*, 2020, vol. 18, no. 2, p. 99-106. (2019: 0.205 - SJR, Q3 - SJR). ISSN 1336-1376. Dostupné na: <https://doi.org/10.15598/aeee.v18i2.3461>
- ADMB24 ROŠŤÁKOVÁ, Zuzana - DORFFNER, G. - AYDEMIR, Ö. - ROSIPAL, Roman. Estimation of sleep quality by using microstructure profiles. In *Lecture Notes in Computer Science : 16th Conference on Artificial Intelligence in Medicine, AIME 2017*, 2017, vol. 10259 LNAI, p. 105-115. (2016: 0.339 - SJR, Q2 - SJR). ISSN 0302-9743. Dostupné na: [https://doi.org/10.1007/978-3-319-59758-4\\_12](https://doi.org/10.1007/978-3-319-59758-4_12)



- ADMB25 ROŠŤÁKOVÁ, Zuzana\*\* - ROSIPAL, Roman - SEIFPOUR, Saman. Tucker tensor decomposition of multi-session EEG data. In *Lecture Notes in Computer Science : Artificial Neural Networks and Machine Learning – ICANN 2020*, 2020, vol. 12396, p. 115-126. (2019: 0.427 - SJR, Q2 - SJR). ISSN 0302-9743. Dostupné na: [https://doi.org/10.1007/978-3-030-61609-0\\_10](https://doi.org/10.1007/978-3-030-61609-0_10)
- ADMB26 RUBLÍK, František\*\*. Nonparametric tests applicable to high dimensional data. In *Austrian Journal of Statistics*, 2019, vol. 48, no. 4, p. 14-42. (2018: 0.422 - SJR, Q3 - SJR). ISSN 1026-597X. Dostupné na: <https://doi.org/10.17713/ajs.v48i4.654>
- ADMB27 SAGHAYAN, M.H. - SEIFPOUR, Saman - KHADEM, A. Automated sleep stage scoring using brain effective connectivity and EEG signals. In *7th International Conference on Signal Processing and Intelligent Systems (ICSPIS)*. - IEEE, 2021, p. [1-5]. ISBN 978-1-6654-0938-4. Dostupné na: <https://doi.org/10.1109/ICSPIS54653.2021.9729377>
- ADMB28 ŠVEHLÍKOVÁ, Jana\*\* - ZELINKA, Ján\* - DOGRUSOZ, Y.S.\* - GOOD, W.\* - TYŠLER, Milan\* - BEAR, L.\*. Impact of signal preprocessing on the inverse localization of the origin of ventricular pacing. In *Computing in Cardiology*, 2019, vol. 45, 4 p. (2018: 0.202 - SJR). ISSN 2325-8861. Dostupné na: <https://doi.org/10.22489/CinC.2018.315>
- ADMB29 ŠVEHLÍKOVÁ, Jana\*\* - TYŠLER, Milan. Inverse localization of intraventricular pacing sites by equivalent dipole source. In *Computing in Cardiology*, 2017, vol. 44, p. 1-4. (2016: 0.336 - SJR). ISSN 2325-8861. Dostupné na: <https://doi.org/10.22489/CinC.2017.058-404>
- ADMB30 ŠVEHLÍKOVÁ, Jana\*\* - ZELINKA, Ján - TYŠLER, Milan - TIŇO, P. Multiobjective optimization approach to localization of ectopic beats by single dipole: Case study. In *Computing in Cardiology*, 2019, vol. 46, art. no. 9005735. (2018: 0.202 - SJR). ISSN 2325-8861. Dostupné na: <https://doi.org/10.22489/CinC.2019.303>
- ADMB31 ŠVEHLÍKOVÁ, Jana - TYŠLER, Milan. Noninvasive localization of premature ventricular activity using different equivalent point sources. In *Computing in Cardiology : 43rd Computing in Cardiology Conference, CinC 2016*, 2016, vol. 43, p. 313-316. (2015: 0.193 - SJR). ISSN 2325-8861. Dostupné na: <https://doi.org/10.22489/CinC.2016.091-239>
- ADMB32 ŠVEHLÍKOVÁ, Jana\*\* - ONDRUŠOVÁ, Beáta - ZELINKA, Ján - TYŠLER, Milan. The influence of the most powerful signals on the pacing site localization by single dipole. In *Computing in Cardiology*, 2020, vol. 47, art. no. 9344305. (2019: 0.296 - SJR). ISSN 2325-8861. Dostupné na: <https://doi.org/10.22489/CinC.2020.304>
- ADMB33 TEPLAN, Michal\*\* - BERETA, Martin - BAJLA, Ivan - BARTOŠOVÁ, Katarína - DERMEK, Tomáš - HABA, Y. - CIFRA, M. Measurement of weak low frequency electromagnetic field effects on cells. In *EMF-Med 2018 : 1st World Conference on Biomedical Applications of Electromagnetic Fields*. - Split, Croatia :

FESB, University of Split, 2018, p. 10-13. ISBN 978-953-290-080-4. Dostupné na: <https://doi.org/10.23919/EMF-MED.2018.8526049>

ADMB34 TYŠLER, Milan\*\* - ŠVEHLÍKOVÁ, Jana - DEUTSCH, E. - OSMANČÍK, P. - HATALA, R. Noninvasive imaging of the origin of premature ventricular activity. In *IFMBE Proceedings*, 2019, vol. 68, no. 1, p. 97-101. (2018: 0.150 - SJR). ISSN 1680-0737. Dostupné na: [https://doi.org/10.1007/978-981-10-9035-6\\_18](https://doi.org/10.1007/978-981-10-9035-6_18)

ADMB35 VU VIET, Hoang - TEPLAN, Michal. Impact of magnetic field on yeast cells monitored by impedance spectroscopy. In *2021 International Workshop on Impedance Spectroscopy (IWIS)*. - IEEE, 2021, p. 85-88. ISBN 978-1-6654-9472-4. Dostupné na: <https://doi.org/10.1109/IWIS54661.2021.9711789>

ADMB36 WIMMER, Gejza - WITKOVSKÝ, Viktor. Model of polynomial calibration. In *Journal of Physics: Conference Series*, 2018, vol. 1065, no. 7, art. no. 072011. (2017: 0.241 - SJR, Q3 - SJR). ISSN 1742-6588. Dostupné na: <https://doi.org/10.1088/1742-6596/1065/7/072011>

ADMB37 WIMMER, Gejza - WITKOVSKÝ, Viktor. On uncertainty analysis in the calibration of gauge block: Another look at example S4 from EA-4/02. In *Measurement Techniques*, 2019, vol. 62, no. 4, p. 319-326. (2018: 0.151 - SJR, Q4 - SJR). ISSN 0543-1972. Dostupné na: <https://doi.org/10.1007/s11018-019-01624-y>

ADMB38 WITKOVSKÝ, Viktor. Numerical inversion of a characteristic function: An alternative tool to form the probability distribution of output quantity in linear measurement models. In *Acta IMEKO*, 2016, vol. 5, no. 3, p. 32-44. (2015: 0.136 - SJR, Q4 - SJR). (2016 - SCOPUS). ISSN 2221-870X. Dostupné na internete: <<https://acta.imeko.org/index.php/acta-imeko/article/view/IMEKO-ACTA-05%20%282016%29-03-06>>

#### **ADNA Scientific papers in domestic impacted journals registered in Web of Sciences or Scopus**

ADNA01 PŘIBIL, Jiří - PŘIBILOVÁ, Anna - MATOUŠEK, J. Automatic statistical evaluation of quality of unit selection speech synthesis with different prosody manipulations. In *Journal of Electrical Engineering*, 2020, vol. 71, no. 2, p. 78-86. (2019: 0.686 - IF, Q4 - JCR, 0.204 - SJR, Q3 - SJR). (2020 - SCOPUS, WOS). ISSN 1335-3632. Dostupné na: <https://doi.org/10.2478/jee-2020-0012>

ADNA02 PŘIBIL, Jiří - PŘIBILOVÁ, Anna - MATOUŠEK, J. Evaluation of speaker de-identification based on voice gender and age conversion. In *Journal of Electrical Engineering*, 2018, vol. 69, no. 2, p. 138-147. (2017: 0.508 - IF, Q4 - JCR, 0.205 - SJR, Q3 - SJR). (2018 - SCOPUS, WOS). ISSN 1335-3632. Dostupné na: <https://doi.org/10.2478/jee-2018-0017>

ADNA03 PŘIBIL, Jiří - PŘIBILOVÁ, Anna - MATOUŠEK, J. GMM-based speaker age and gender classification in Czech and Slovak. In *Journal of Electrical Engineering*, 2017, vol. 68, no. 1, p. 3-12. (2016: 0.483 - IF, Q4 - JCR, 0.311 - SJR, Q2 - SJR). (2017 - WOS, SCOPUS). ISSN 1335-3632. Dostupné na: <https://doi.org/10.1515/jee-2017-0001>

ADNA04 PŘIBIL, Jiří - PŘIBILOVÁ, Anna - FROLLO, Ivan. Two methods of automatic evaluation of speech signal enhancement recorded in the open-air MRI environment. In *Measurement Science Review*, 2017, vol. 17, no. 6, p. 257-263. (2016: 1.344 - IF, Q3 - JCR, 0.472 - SJR, Q2 - SJR). (2017 - WOS, SCOPUS). ISSN 1335-8871. Dostupné na: <https://doi.org/10.1515/msr-2017-0031>

ADNA05 PUNSHCHYKOVA, O. - ŠVEHLÍKOVÁ, Jana - TYŠLER, Milan - GRÜNES, R. - SEDOVA, K. - OSMANČÍK, P. - ŽDÁRSKÁ, J. - HEŘMAN, D. - KNEPPO, P. Influence of torso model complexity on the noninvasive localization of ectopic ventricular activity. In *Measurement Science Review*, 2016, vol. 16, no. 2, p. 96-102. (2015: 0.969 - IF, Q3 - JCR, 0.380 - SJR, Q2 - SJR). (2016 - WOS, SCOPUS). ISSN 1335-8871. Dostupné na: <https://doi.org/10.1515/msr-2016-0013>

ADNA06 WITKOVSKÝ, Viktor - WIMMER, Gejza - DUBY, T. Estimating the distribution of a stochastic sum of IID random variables. In *Mathematica Slovaca*, 2020, vol. 70. no. 3, p. 759-774. (2019: 0.654 - IF, Q3 - JCR, 0.397 - SJR, Q3 - SJR). ISSN 0139-9918. Dostupné na: <https://doi.org/10.1515/ms-2017-0389>

#### **ADNB Scientific papers in domestic non-impacted journals registered in Web of Sciences or Scopus**

ADNB01 ANDRIS, Peter\*\* - DERMEK, Tomáš - FROLLO, Ivan. Noise matching of the NMR scanner receiver. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 274-277. (2019 - WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na: <https://doi.org/10.23919/MEASUREMENT47340.2019.8779891>

ADNB02 BAJLA, Ivan - ŠKOVIERA, R. - TEPLAN, Michal. An alternative of the sliding window approach in time series clustering of intracranial pressure for patients with traumatic brain injury. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 47-50. ISBN 978-80-972629-0-7. Dostupné na: <https://doi.org/10.23919/MEASUREMENT.2017.7983533>

ADNB03 BAJLA, Ivan\*\* - TEPLAN, Michal - CHVOSTEKOVÁ, Martina. Image decoloring via optimized predominant component analysis for segmentation of microscopic yeast cell images. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 190-194. (2019 - WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na: <https://doi.org/10.23919/MEASUREMENT47340.2019.8780082>

ADNB04 BERETA, Martin\*\* - TEPLAN, Michal - VAHALOVÁ, P. - CIFRA, M. Monitoring of hydroxyl radical induced oxidation of yeast cells using biological autoluminescence. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 248-251. (2019 - WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na: <https://doi.org/10.23919/MEASUREMENT47340.2019.8779909>

- ADNB05 COCHEROVÁ, Elena - ŠVEHLÍKOVÁ, Jana - ZELINKA, Ján - TYŠLER, Milan. Activation propagation in cardiac ventricles using homogeneous monodomain model and model based on cellular automaton. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 217-220. ISBN 978-80-972629-0-7. Dostupné na: <https://doi.org/10.23919/MEASUREMENT.2017.7983575>
- ADNB06 COCHEROVÁ, Elena. Activation propagation in cardiac ventricles using the model of the normal and disrupted conduction system. In *MEASUREMENT 2021 : Proceedings of the 13th International Conference on Measurement*. - Bratislava : Institute of Measurement Science, SAS, 2021, 2021, p. 110-113. ISBN 978-80-972629-4-5. Dostupné na: <https://doi.org/10.23919/Measurement52780.2021.9446833>
- ADNB07 COCHEROVÁ, Elena\*\* - ŠVEHLÍKOVÁ, Jana - TYŠLER, Milan. Evaluation of activation times in ventricular model with realistic geometry and conduction system. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 26-29. (2019 - WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na: <https://doi.org/10.23919/MEASUREMENT47340.2019.8779956>
- ADNB08 DEUTSCH, E.\*\* - ŠVEHLÍKOVÁ, Jana - TYŠLER, Milan - SEDOVA, K. - SEDLACEK, K. - OSMANCIK, P. - ZDARSKA, J. - KNEPPO, P. Use of autocorrelation maps for evaluation of CRT pacing settings. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 215-218. (2019 - WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na: <https://doi.org/10.23919/MEASUREMENT47340.2019.8779965>
- ADNB09 DOGRUSOZ, Y.S.\*\* - ZELINKA, Ján - ŠVEHLÍKOVÁ, Jana. Comparison of dipole-based and potential-based inverse ECG solutions for the localization of ventricular pacing sites. In *MEASUREMENT 2021 : Proceedings of the 13th International Conference on Measurement*. - Bratislava : Institute of Measurement Science, SAS, 2021, 2021, p. 106-109. ISBN 978-80-972629-4-5. Dostupné na: <https://doi.org/10.23919/Measurement52780.2021.9446838>
- ADNB10 DYDA, M. - RUŽIČKA, P. - HAIN, Miroslav. Crystal size distribution (CSD) of titanite inclusions in grossular from a calc-silicate rock in the Malé Karpaty Mts., Slovakia. In *Mineralia Slovaca*, 2017, vol. 49, no. 2, p. 113-123. (2017 - SCOPUS). ISSN 0369-2086. Dostupné na internete: <https://da.geology.sk/navigator/download.jsp?magazineId=A1001001A18D11B31404A32731>
- ADNB11 FARAHANI, Hamed. Comparison of MFDFA and Chhabra-Jensen method on multifractal and monofractal data. In *MEASUREMENT 2021 : Proceedings of the 13th International Conference on Measurement*. - Bratislava : Institute of Measurement Science, SAS, 2021, 2021, p. 88-91. ISBN 978-80-972629-4-5. Dostupné na: <https://doi.org/10.23919/Measurement52780.2021.9446773>

- ADNB12 FROLLO, Ivan - ANDRIS, Peter - KRAFČÍK, Andrej - GOGOLA, Daniel - DERMEK, Tomáš. Comparative magnetic field measurements for homogeneity adjustment of magnetic resonance imaging equipments. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 259-262. ISBN 978-80-972629-0-7. Dostupné na:  
<https://doi.org/10.23919/MEASUREMENT.2017.7983585>
- ADNB13 FROLLO, Ivan\*\* - KRAFČÍK, Andrej - GOGOLA, Daniel - DERMEK, Tomáš - BAČIAK, L. Ions flow dynamics research using fast magnetic resonance imaging method. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 145-148. (2019 - WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na:  
<https://doi.org/10.23919/MEASUREMENT47340.2019.8780083>
- ADNB14 GOGOLA, Daniel - SZOMOLÁNYI, Pavol - FROLLO, Ivan. Flip angle calibration for imaging systems based on MR. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 201-204. ISBN 978-80-972629-0-7. Dostupné na:  
<https://doi.org/10.23919/MEASUREMENT.2017.7983571>
- ADNB15 GOGOLA, Daniel\*\* - SZOMOLÁNYI, Pavol - BAČIAK, L. - FROLLO, Ivan. Gradient offset calibration used for B0 homogeneity. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 167-171. (2019 - WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na:  
<https://doi.org/10.23919/MEASUREMENT47340.2019.8779908>
- ADNB16 HAIN, Miroslav - BARTL, Ján - JACKO, Vlado. Use of X-ray microtomography and radiography in cultural heritage testing. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 119-122. ISBN 978-80-972629-0-7. Dostupné na:  
<https://doi.org/10.23919/MEASUREMENT.2017.7983550>
- ADNB17 HAŠKA, Miroslav\*\* - TYŠLER, Milan. Multichannel wireless bioelectric potential measurement: State of the art and applicability for BSP mapping. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 211-214. (2019 - WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na:  
<https://doi.org/10.23919/MEASUREMENT47340.2019.8779993>
- ADNB18 CHVOSTEKOVÁ, Martina\*\*. A comparison of multiple-use confidence regions for multivariate calibration. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 244-247. (2019 -

WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na:  
<https://doi.org/10.23919/MEASUREMENT47340.2019.8779940>

ADNB19 CHVOSTEKOVÁ, Martina. A measure of prediction precision for Granger causality analysis. In *MEASUREMENT 2021 : Proceedings of the 13th International Conference on Measurement*. - Bratislava : Institute of Measurement Science, SAS, 2021, 2021, p. 6-9. ISBN 978-80-972629-4-5. Dostupné na:  
<https://doi.org/10.23919/Measurement52780.2021.9446790>

ADNB20 CHVOSTEKOVÁ, Martina. Granger causality inference and time reversal. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 110-113. (2019 - WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na:  
<https://doi.org/10.23919/MEASUREMENT47340.2019.8779895>

ADNB21 JAKUBÍK, Jozef. Handling fluctuating observability of the Rössler system. In *MEASUREMENT 2021 : Proceedings of the 13th International Conference on Measurement*. - Bratislava : Institute of Measurement Science, SAS, 2021, 2021, p. 10-13. ISBN 978-80-972629-4-5. Dostupné na:  
<https://doi.org/10.23919/Measurement52780.2021.9446819>

ADNB22 JAKUBÍK, Jozef. Notes to time reverse methods for detecting causality of dynamical systems. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 106-109. (2019 - WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na:  
<https://doi.org/10.23919/MEASUREMENT47340.2019.8779950>

ADNB23 JURÁŠ, Vladimír - BOHNDORF, K. - HEULE, R. - KRONNERWETTER, C. - SZOMOLÁNYI, Pavol - BIERI, O. - FROLLO, Ivan - TRATTNIG, S. T2 mapping of cartilage with triple-echo steady state MR sequence. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 189-192. ISBN 978-80-972629-0-7. Dostupné na:  
<https://doi.org/10.23919/MEASUREMENT.2017.7983568>

ADNB24 KADANEC, Jan - ZELINKA, Ján - BUKOR, Gabriel - TYŠLER, Milan. ProCardio 8 - system for high resolution ECG mapping. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 263-266. ISBN 978-80-972629-0-7. Dostupné na:  
<https://doi.org/10.23919/MEASUREMENT.2017.7983586>

ADNB25 KRAFČÍK, Andrej\*\* - BABINEC, P. - FROLLO, Ivan. Computational study of magnetic particle alignment in external magnetic field under the influence of viscous and brownian torques. In *MEASUREMENT 2021 : Proceedings of the 13th International Conference on Measurement*. - Bratislava : Institute of Measurement Science, SAS, 2021, 2021, p. 14-17. ISBN 978-80-972629-4-5. Dostupné na:  
<https://doi.org/10.23919/Measurement52780.2021.9446797>

- ADNB26 KRAFČÍK, Andrej - BABINEC, P. - FROLLO, Ivan. Coupled Nernst-Planck and Navier-Stokes equations for incompressible laminar flow of magnetic beads through bifurcation with magnetic stent. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 233-236. ISBN 978-80-972629-0-7. Dostupné na: <https://doi.org/10.23919/MEASUREMENT.2017.7983579>
- ADNB27 KRAKOVSKÁ, Anna. Cross-predictions in the search for effective connectivity in brain. In *MEASUREMENT 2021 : Proceedings of the 13th International Conference on Measurement*. - Bratislava : Institute of Measurement Science, SAS, 2021, 2021, p. 2-5. ISBN 978-80-972629-4-5. Dostupné na: <https://doi.org/10.23919/Measurement52780.2021.9446774>
- ADNB28 KRAKOVSKÁ, Anna. Predictability improvement as a tool to detect causality. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 39-42. ISBN 978-80-972629-0-7. Dostupné na: <https://doi.org/10.23919/MEASUREMENT.2017.7983531>
- ADNB29 KRAKOVSKÁ, Anna. Some peculiarities of causal analysis of coupled chaotic systems. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 102-105. (2019 - WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na: <https://doi.org/10.23919/MEASUREMENT47340.2019.8780053>
- ADNB30 KRAKOVSKÁ, Anna - ŠKOVIERA, Radoslav - ROSIPAL, Roman. Spectral, complexity and interdependence measures of sleep EEG after ischemic stroke. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 245-249. ISBN 978-80-972629-0-7. Dostupné na: <https://doi.org/10.23919/MEASUREMENT.2017.7983582>
- ADNB31 KRAKOVSKÁ, Hana\*\* - KRAKOVSKÁ, Anna. Problems of estimating fractal dimension by Higuchi and DFA methods for signals that are a combination of fractal and oscillations. In *MEASUREMENT 2021 : Proceedings of the 13th International Conference on Measurement*. - Bratislava : Institute of Measurement Science, SAS, 2021, 2021, p. 84-87. ISBN 978-80-972629-4-5. Dostupné na: <https://doi.org/10.23919/Measurement52780.2021.9446804>
- ADNB32 LATTA, P.\*\* - JURAS, V. - KOJAN, M. - STARCUK, Z., jr. - DELIGIANNI, X. - BIERI, O. - SZOMOLÁNYI, Pavol - FROLLO, Ivan - TRATTNIG, S. The experimental setup for T2\* mapping in Achilles tendon and enthesis. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 141-144. (2019 - WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na: <https://doi.org/10.23919/MEASUREMENT47340.2019.8779934>

- ADNB33 LEHOCKI, Fedor\*\* - MADEVSKA BOGDANOVA, A. - TYŠLER, Milan - ONDRUŠOVÁ, Beáta - SIMJANOSKA, M. - KOTESKA, B. - KOSTOSKA, M. - MAJAK, M. - MACURA, M. SmartPatch for victims management in emergency telemedicine. In *MEASUREMENT 2021 : Proceedings of the 13th International Conference on Measurement*. - Bratislava : Institute of Measurement Science, SAS, 2021, 2021, p. 146-149. ISBN 978-80-972629-4-5. Dostupné na: <https://doi.org/10.23919/Measurement52780.2021.9446791>
- ADNB34 MAJEROVÁ, Melinda\*\* - PRNOVÁ, Anna - KRAXNER, J. - PECUŠOVÁ, B. - RANDÁKOVÁ, S. - PLŠKO, A. - GALUSEK, Dušan. Determination of physical properties of Bi-doped CaO-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> glasses. In *MEASUREMENT 2021 : Proceedings of the 13th International Conference on Measurement*. - Bratislava : Institute of Measurement Science, SAS, 2021, 2021, p. 31-34. ISBN 978-80-972629-4-5. Dostupné na: <https://doi.org/10.23919/Measurement52780.2021.9446806>
- ADNB35 MAJEROVÁ, Melinda - ŠKRÁTEK, Martin - PRNOVÁ, Anna - DVUREČENSKIJ, Andrej - KRAXNER, Jozef - PARCHOVIANSKY, Milan - ŠVANČÁREK, Peter - CIGÁŇ, Alexander - MAŇKA, Ján - GALUSEK, Dušan. Morphology and magnetic properties of aluminate glass microspheres with gehlenite matrix doped with Bi, Ni and Cr. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 79-82. ISBN 978-80-972629-0-7. Dostupné na: <https://doi.org/10.23919/MEASUREMENT.2017.7983540>
- ADNB36 MAJEROVÁ, Melinda\*\* - ŠKRÁTEK, Martin - PRNOVÁ, Anna - DVUREČENSKIJ, Andrej - KRAXNER, Jozef - ŠVANČÁREK, Peter - CIGÁŇ, Alexander - MAŇKA, Ján - GALUSEK, Dušan. Preparation and characterization of Ni doped Ca<sub>2</sub>Al<sub>2</sub>SiO<sub>7</sub> glass microspheres. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 282-285. (2019 - WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na: <https://doi.org/10.23919/MEASUREMENT47340.2019.8780069>
- ADNB37 ONDRUŠOVÁ, Beáta\*\* - ŠVEHLÍKOVÁ, Jana - TYŠLER, Milan - TIŇO, P. Significance of multi-lead ECG electrodes derived from patient-specific transfer matrix. In *MEASUREMENT 2021 : Proceedings of the 13th International Conference on Measurement*. - Bratislava : Institute of Measurement Science, SAS, 2021, 2021, p. 80-83. ISBN 978-80-972629-4-5. Dostupné na: <https://doi.org/10.23919/Measurement52780.2021.9446788>
- ADNB38 PALENČÁR, R. - WIMMER, Gejza - KLVÁČOVÁ, S. - WITKOVSKÝ, Viktor. Two approaches to obtain the calibration line. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 43-46. ISBN 978-80-972629-0-7. Dostupné na: <https://doi.org/10.23919/MEASUREMENT.2017.7983532>
- ADNB39 PŘIBIL, Jiří\*\* - PŘIBILOVÁ, Anna - FROLLO, Ivan. Automatic calibration of vibration sensors for measurement in a weak magnetic field. In *MEASUREMENT*



2019 : *Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 137-140. (2019 - WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na: <https://doi.org/10.23919/MEASUREMENT47340.2019.8780100>

- ADNB40     PŘIBIL, Jiří - GOGOLA, Daniel - DERMEK, Tomáš - FROLLO, Ivan. Automatic evaluation of noise suppression in speech signal recorded during phonation in the open-air MRI. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 205-208. ISBN 978-80-972629-0-7. Dostupné na: <https://doi.org/10.23919/MEASUREMENT.2017.7983572>
- ADNB41     PŘIBIL, Jiří\*\* - PŘIBILOVÁ, Anna - FROLLO, Ivan. PPG signal measurement in weak magnetic field by a wearable sensor. In *MEASUREMENT 2021 : Proceedings of the 13th International Conference on Measurement*. - Bratislava : Institute of Measurement Science, SAS, 2021, 2021, p. 118-121. ISBN 978-80-972629-4-5. Dostupné na: <https://doi.org/10.23919/Measurement52780.2021.9446787>
- ADNB42     PUNSHCHYKOVA, O. - ŠVEHLÍKOVÁ, Jana - TYŠLER, Milan - KNEPPO, P. Accuracy of noninvasive PVC focus localization depending on its position in the ventricles: A simulation study. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 209-212. ISBN 978-80-972629-0-7. Dostupné na: <https://doi.org/10.23919/MEASUREMENT.2017.7983573>
- ADNB43     ROŠŤÁKOVÁ, Zuzana\*\* - ROSIPAL, Roman. Factor number selection in the tensor decomposition of EEG data: Mission (im)possible? In *MEASUREMENT 2021 : Proceedings of the 13th International Conference on Measurement*. - Bratislava : Institute of Measurement Science, SAS, 2021, 2021, p. 76-79. ISBN 978-80-972629-4-5. Dostupné na: <https://doi.org/10.23919/Measurement52780.2021.9446801>
- ADNB44     ROŠŤÁKOVÁ, Zuzana - ROSIPAL, Roman. Importance of the time alignment of the sleep probabilistic curves. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 27-30. ISBN 978-80-972629-0-7. Dostupné na: <https://doi.org/10.23919/MEASUREMENT.2017.7983528>
- ADNB45     ROŠŤÁKOVÁ, Zuzana\*\* - ROSIPAL, Roman. Three-way analysis of multichannel EEG data using the PARAFAC and Tucker models. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 127-130. (2019 - WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na: <https://doi.org/10.23919/MEASUREMENT47340.2019.8780005>
- ADNB46     RUBLÍK, František - WITKOVSKÝ, Viktor. A goodness-of-fit test for uniform distribution with unknown limits. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia :

Institute of Measurement Science, SAS, 2017, p. 31-34. ISBN 978-80-972629-0-7.  
Dostupné na: <https://doi.org/10.23919/MEASUREMENT.2017.7983529>

- ADNB47 RUBLÍK, František\*\*. Asymptotic multivariate confidence rectangles and multiple comparisons methods for difference of vectors of proportions. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 173-176. (2019 - WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na: <https://doi.org/10.23919/MEASUREMENT47340.2019.8779946>
- ADNB48 SZOMOLÁNYI, Pavoľ - RÖHRICH, S. - FROLLO, Ivan - JURÁŠ, Vladimír - SCHREINER, M. - HEULE, R. - BIERI, O. - TRATTNIG, S. Evaluation of compression properties of human knee cartilage - in-vivo study at 7T MRI. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 185-188. ISBN 978-80-972629-0-7. Dostupné na: <https://doi.org/10.23919/MEASUREMENT.2017.7983567>
- ADNB49 ŠVEHLÍKOVÁ, Jana - PUNSHCHYKOVA, O. - KROMKOVÁ, K. - TYŠLER, Milan - HATALA, R. First experience with PVC localization from clinical data. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 213-216. ISBN 978-80-972629-0-7. Dostupné na: <https://doi.org/10.23919/MEASUREMENT.2017.7983574>
- ADNB50 ŠVEHLÍKOVÁ, Jana\*\* - ZELINKA, Ján - HAŠKA, Miroslav - TYŠLER, Milan. Simulation of measured body surface potential map during early right ventricular pacing. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 34-37. (2019 - WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na: <https://doi.org/10.23919/MEASUREMENT47340.2019.8780020>
- ADNB51 TEPLAN, Michal - BAJLA, Ivan - STRBAK, O. - CIFRA, M. Development of experimental platform for investigation of biological response of cells to weak low frequency electromagnetic fields. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 237-240. ISBN 978-80-972629-0-7. Dostupné na: <https://doi.org/10.23919/MEASUREMENT.2017.7983580>
- ADNB52 TEPLAN, Michal\*\* - VU VIET, Hoang - BERETA, M. - BAJLA, Ivan. Measurement system for monitoring of magnetic field effects on yeast cells by impedance spectroscopy. In *MEASUREMENT 2021 : Proceedings of the 13th International Conference on Measurement*. - Bratislava : Institute of Measurement Science, SAS, 2021, 2021, p. 190-193. ISBN 978-80-972629-4-5. Dostupné na: <https://doi.org/10.23919/Measurement52780.2021.9446776>
- ADNB53 TYŠLER, Milan - PUNSHCHYKOVA, O. - ŠVEHLÍKOVÁ, Jana - OSMANČÍK, P. - ŽDÁRSKÁ, J. - KNEPPO, P. Noninvasive identification of local

disorders of electrogenesis in ventricular arrhythmias = Neinvazívna identifikácia lokálnych porúch elektrogenézy pri komorových arytmiách. In *Cardiology Letters*, 2017, vol. 26, no. 1, p. 39-46. (2016: 0.118 - SJR, Q4 - SJR). ISSN 1338-3655.

Dostupné na internete:

<[http://www.cardiologyletters.sk/index.php/component/cardiology\\_letters/clanok/166](http://www.cardiologyletters.sk/index.php/component/cardiology_letters/clanok/166)>

- ADNB54 WIMMER, Gejza - WITKOVSKÝ, Viktor. Demodulation and uncertainty evaluation of quadrature interferometer signals when the errors are autoregressive. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 23-26. ISBN 978-80-972629-0-7. Dostupné na: <https://doi.org/10.23919/MEASUREMENT.2017.7983527>
- ADNB55 WIMMER, Gejza\*\* - WITKOVSKÝ, Viktor. Determination of the exact confidence intervals for parameters in a model of direct measurements with independent random errors. In *MEASUREMENT 2021 : Proceedings of the 13th International Conference on Measurement*. - Bratislava : Institute of Measurement Science, SAS, 2021, 2021, p. 97-100. ISBN 978-80-972629-4-5. Dostupné na: <https://doi.org/10.23919/Measurement52780.2021.9446786>
- ADNB56 WIMMER, Gejza\*\* - WITKOVSKÝ, Viktor. Two-dimensional linear comparative calibration and measurement uncertainty. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 66-69. (2019 - WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na: <https://doi.org/10.23919/MEASUREMENT47340.2019.8779887>
- ADNB57 WITKOVSKÝ, Viktor - WIMMER, Gejza - ĎURIŠOVÁ, Z. - ĎURIŠ, S. - PALEŇČAR, R. Brief overview of methods for measurement uncertainty analysis: GUM uncertainty framework, Monte Carlo method, characteristic function approach. In *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017, p. 35-38. ISBN 978-80-972629-0-7. Dostupné na: <https://doi.org/10.23919/MEASUREMENT.2017.7983530>
- ADNB58 WITKOVSKÝ, Viktor\*\* - WIMMER, Gejza. Exact confidence intervals for parameters in linear models with parameter constraints. In *MEASUREMENT 2021 : Proceedings of the 13th International Conference on Measurement*. - Bratislava : Institute of Measurement Science, SAS, 2021, 2021, p. 22-25. ISBN 978-80-972629-4-5. Dostupné na: <https://doi.org/10.23919/Measurement52780.2021.9446783>
- ADNB59 WITKOVSKÝ, Viktor\*\* - WIMMER, Gejza. Inverse and direct prediction and its effect on measurement uncertainty in polynomial comparative calibration. In *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. - Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019, p. 62-65. (2019 - WOS, SCOPUS). ISBN 978-80-972629-2-1. Dostupné na: <https://doi.org/10.23919/MEASUREMENT47340.2019.8779926>

**AECA Scientific papers in foreign peer-reviewed proceedings and shorter chapters in foreign scientific monographs or academic/university textbooks**

AECA01 WIMMER, Gejza - ĎURIŠ, S. - PALEŇČÁR, R. - WITKOVSKÝ, Viktor. EIV calibration model of thermocouples. In *Advanced Mathematical and Computational Tools in Metrology and Testing XI*. - World Scientific Publishing Company, 2018, p. 401-408. ISBN 978-981-3274-29-7. Dostupné na: [https://doi.org/10.1142/9789813274303\\_0040](https://doi.org/10.1142/9789813274303_0040)

AECA02 WITKOVSKÝ, Viktor - WIMMER, Gejza\* - ĎURIŠOVÁ, Z. - ĎURIŠ, S. - PALEŇČÁR, R. - PALEŇČÁR, J. Modeling and evaluating the distribution of the output quantity in measurement models with copula dependent input quantities. In *Advanced Mathematical and Computational Tools in Metrology and Testing XI*. - World Scientific Publishing Company, 2018, p. 409-416. ISBN 978-981-3274-29-7. Dostupné na: [https://doi.org/10.1142/9789813274303\\_0041](https://doi.org/10.1142/9789813274303_0041)

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

AEDA01 WIMMER, Gejza - WITKOVSKÝ, Viktor - ŽÁKOVÁ MYŠKOVÁ, K. Two-dimensional linear comparative calibration. In *Perspectives in Measurement, Modeling and Interpretation*. - Bratislava, Slovakia : Vysoká škola manažmentu/City University of Seattle programs, 2020, p. 15-37. ISBN 978-80-89306-54-1.

**AEMA Abstracts of scientific papers published in foreign impacted journals registered in Web of Science Core Collection or Scopus**

AEMA01 CIMROVÁ, Barbora - ROŠŤÁKOVÁ, Zuzana - VARGA DOLEŽALOVÁ, M. - RYBÁR, J. - FARKAŠ, I. - ROSIPAL, Roman. Linking the quality of sleep and cognitive performance in stroke patients. In *Journal of Sleep Research*, 2016, vol. 25, suppl. 1, p. 253-254. (2015: 3.093 - IF, Q2 - JCR, 1.393 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0962-1105.

AEMA02 DORFFNER, G. - PICHLER, L. - GRUBER, G. - ROŠŤÁKOVÁ, Zuzana - ROSIPAL, Roman. Effects of ischemic stroke on sleep architecture: A retrospective study. In *Journal of Sleep Research*, 2018, vol. 27, suppl. 1, p. 308. (2017: 3.433 - IF, Q2 - JCR, 1.498 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0962-1105.

AEMA03 KLEMBARA, J.\*\* - HAIN, Miroslav - ČERŇANSKÝ, A. - BERMAN, D.S. - HENRICI, A.C. Anatomy of the braincase of the Early Permian *Diadectes absitus* (*Diadectomorpha*) from Germany based on high-resolution X-ray microcomputed tomography. In *Journal of Morphology*, 2019, vol. 280, suppl. 1, p. S152-S153. (2018: 1.558 - IF, Q2 - JCR, 0.783 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0362-2525.

AEMA04 ROŠŤÁKOVÁ, Zuzana - ROSIPAL, Roman - DORFFNER, G. Continuous sleep profiles clustering with a novel two-step functional data approach. In *Journal of Sleep Research*, 2016, vol. 25, suppl. 1, p. 251. (2015: 3.093 - IF, Q2 - JCR, 1.393 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0962-1105.

AEMA05 ROŠŤÁKOVÁ, Zuzana - ROSIPAL, Roman. Relationship between sleep structure of patients after ischemic stroke and daily measures. In *Journal of Sleep Research*, 2018, vol. 27, suppl. 1, p. 144. (2017: 3.433 - IF, Q2 - JCR, 1.498 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0962-1105.

#### **AFA Published invited papers from foreign scientific conferences**

AFA01 PRNOVÁ, Anna - PLŠKO, Alfonz - VALÚCHOVÁ, Jana - PECUŠOVÁ, Beáta - MAJEROVÁ, Melinda - KLEMENT, Róbert - GALUSEK, Dušan. Termická analýza hlinitanových skiel. In *Konferencia o špeciálnych anorganických pigmentoch a práškových materiáloch, 23. září 2021, Pardubice, Česká republika : Sborník příspěvků 23. ročníku*. Zodpovedný redaktor Žaneta Dohnalová, eds. Petr Bělina, Žaneta Dohnalová, Pavla Honcová. - Pardubice, Česká republika : Univerzita Pardubice, 2021, p. 35-40. ISBN 978-80-7560-376-0.

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

AFC01 ADAMKOVIČ, M. - COCHEROVÁ, Elena - ŠVEHLÍKOVÁ, Jana - PÚČIK, J. The stimulation threshold in the slab model of the cardiac tissue. In *YBERC 2016 : 7th Biomedical Engineering Conference*. - Ostrava, Czech Republic : Technical University of Ostrava, 2016, p. [1-5]. ISBN 978-80-248-4000-0.

AFC02 CIMROVÁ, Barbora - ROŠŤÁKOVÁ, Zuzana - VARGA DOLEŽALOVÁ, Monika - FARKAŠ, I. - ROSIPAL, Roman. Hľadanie súvislostí medzi charakteristikami spánku a kognitívnym výkonom pacientov s ložiskovou ischémiou mozgu. In *Kognice a umělý život 2018 : sborník příspěvků*. - Brno : Flow, z.s., 2018, s. 11-12. ISBN 978-80-88123-24-8.

AFC03 COCHEROVÁ, Elena. Dependence of ventricular action potential shape on FitzHugh-Nagumo model parameters. In *Technical Computing Prague 2017 : 24th Annual Conference Proceedings*. Editor: P. Byron. - Prague, Czech Republic : University of Chemistry and Technology, 2017, p. [1-5]. ISBN 978-80-7592-002-7. ISSN 2336-1662. Dostupné na internete: <[https://www2.humusoft.cz/www/papers/tcp2017/008\\_cocherova.pdf](https://www2.humusoft.cz/www/papers/tcp2017/008_cocherova.pdf)>

AFC04 COCHEROVÁ, Elena - ŠVEHLÍKOVÁ, Jana - TYŠLER, Milan - ZELINKA, Ján. Evaluation of activation times in ventricular model with and without the conducting system. In *Trendy v biomedicínském inženýrství 2017 : 12. česko-slovenská konference*. - Ostrava, ČR : VŠB – TU Ostrava, 2017, s. [1-5]. ISBN 978-80-248-4099-4.

AFC05 COCHEROVÁ, Elena - PÚČIK, J. - KUBINEC, P. The stimulation threshold and the propagation velocity in the slab model of the cardiac tissue. In *Trendy v biomedicínském inženýrství 2017 : 12. česko-slovenská konference*. - Ostrava, ČR : VŠB – TU Ostrava, 2017, s. [1-4]. ISBN 978-80-248-4099-4.

AFC06 COCHEROVÁ, Elena\*\* - TYŠLER, Milan. Ventricular model with realistic geometry and conduction system. In *Trendy v biomedicínském inženýrství*. Editor: S. Nevyhoštěná; recenzenti: A. Richter, V. Lindauer, T. Souček, B. Klíčová. - Liberec, ČR : Technická univerzita v Liberci, 2021, p. 37-40. ISBN 978-80-7494-586-1.

- AFC07 JAKUBÍK, Jozef. Nonlinear relationship detection using pseudocorrelation. In *ITISE 2018 : International Conference on Time Series and Forecasting*. Editors: O. Valenzuela, F. Rojas, H. Pomares, I. Rojas. - Granada, Spain : Godel Impresiones Digitales, S.L., 2018, p. 1265-1269. ISBN 978-84-17293-57-4.
- AFC08 KOREČKO, Š. - HUDÁK, M. - SOBOTA, B. - MARKO, Martin - CIMROVÁ, Barbora - FARKAŠ, I. - ROSIPAL, Roman. Assessment and training of visuospatial cognitive functions in virtual reality: Proposal and perspective. In *CogInfoCom : 9th IEEE International Conference on Cognitive InfoCommunications*. - IEEE, 2018, p. 39-43. ISBN 978-1-5386-7094-1. Dostupné na: <https://doi.org/10.1109/CogInfoCom.2018.8639958>
- AFC09 KRAKOVSKÁ, Anna. Power laws in stock market and fractal complexity of S&P500 and DAX. In *ITISE 2018 : International Conference on Time Series and Forecasting*. Editors: O. Valenzuela, F. Rojas, H. Pomares, I. Rojas. - Granada, Spain : Godel Impresiones Digitales, S.L., 2018, p. 1113-1124. ISBN 978-84-17293-57-4.
- AFC10 MAJEROVÁ, Melinda - PRNOVÁ, Anna - VALÚCHOVÁ, Jana - PECUŠOVÁ, Beáta - GALUSEK, Dušan. Termická analýza gelenitových sklených mikrogul'ôčok. In *Konference o speciálních anorganických pigmentech a práškových materiálech, 23. září 2021, Pardubice, Česká republika : Sborník příspěvků 23. ročníku*. Zodpovedný redaktor Žaneta Dohnalová, eds. Petr Bělina, Žaneta Dohnalová, Pavla Honcová. - Pardubice, Česká republika : Univerzita Pardubice, 2021, p. 29-34. ISBN 978-80-7560-376-0.
- AFC11 PŘIBIL, Jiří\*\* - PŘIBILOVÁ, Anna - FROLLO, Ivan. Analysis of energy relations between noise and vibration signals in the scanning area of an open-air MRI device. In *Proceedings*, 2019, vol. 4, no. 1, p. 29. ISSN 2504-3900.
- AFC12 PŘIBIL, Jiří\*\* - PŘIBILOVÁ, Anna - FROLLO, Ivan. Comparative measurement of the PPG signal on different human body positions by sensors working in reflection and transmission modes. In *Engineering Proceedings*, 2020, vol. 2, no. 1, p. 69. ISSN 2673-4591. Dostupné na: <https://doi.org/10.3390/ecsa-7-08204>
- AFC13 PŘIBIL, Jiří - PŘIBILOVÁ, Anna - MATOUŠEK, J. Comparison of one and two-level architecture of the GMM-based speaker age classifier. In *39th International Conference on Telecommunications and Signal Processing (TSP 2016)*. Editor N. Herencsar. - Brno, Czech Republic : Faculty of Electrical Engineering and Communication, Brno University of Technology, 2016, p. 299-302. ISBN 978-1-5090-1287-9. Dostupné na: <https://doi.org/10.1109/TSP.2016.7760883>
- AFC14 PŘIBIL, Jiří - PŘIBILOVÁ, Anna - MATOUŠEK, J. Evaluation of TTS personification by GMM-based speaker gender and age classifier. In *Text, Speech, and Dialogue : 19th International Conference (TSD 2016)*. Editors P. Sojka, A. Horák, I. Kopeček, K. Pala. - Springer, 2016, INCS 9924, P. 305-313. ISBN 978-3-319-45509-9. ISSN 0302-9743. Dostupné na: [https://doi.org/10.1007/978-3-319-45510-5\\_35](https://doi.org/10.1007/978-3-319-45510-5_35)

- AFC15 PŘIBIL, Jiří - PŘIBILOVÁ, Anna - MATOUŠEK, J. GMM-based speaker gender and age classification after voice conversion. In *First International Workshop on Sensing, Processing and Learning for Intelligent Machines (SPLINE 2016)*. - Aalborg : IEEE, 2016, p. 89-93. ISBN 978-1-4673-8916-7. Dostupné na: <https://doi.org/10.1109/SPLIM.2016.7528391>
- AFC16 PŘIBIL, Jiří\*\* - PŘIBILOVÁ, Anna - FROLLO, Ivan. Physiological impact of vibration and noise in an open-air magnetic resonance imager: Analysis of a PPG signal of an examined person. In *Proceedings*, 2020, vol. 42, no. 1, p. 1-14. ISSN 2504-3900. Dostupné na: <https://doi.org/10.3390/ecsa-6-06631>
- AFC17 PŘIBIL, Jiří\*\* - PŘIBILOVÁ, Anna - FROLLO, Ivan. Two realizations of the wearable PPG sensor working in reflectance mode for measurement in weak magnetic field. In *Engineering Proceedings*, 2021, vol. 10, no. 1, art. no. 55. ISSN 2673-4591. Dostupné na: <https://doi.org/10.3390/ecsa-8-11252>
- AFC18 STEIN, George Juraj - KRAFCÍK, Andrej - TOBOLKA, Peter - FROLLO, Ivan. Attenuation of beam transversal vibrations by electro-magnetic means. In *Mechatronika (ME) 2018 : Proceedings of the 18th International Conference on Mechatronics*. Editors: D. Maga, A. Stefek, T. Brezina. - Brno, Czech Republic : Brno University of Technology, 2018, p. 47-52. ISBN 978-80-214-5543-6.
- AFC19 TYŠLER, Milan - PUNSHCHYKOVA, O. - ŠVEHLÍKOVÁ, Jana - OSMANČÍK, P. - ŽDÁRSKÁ, J. - KNEPPO, P. Impact of the number of ECG leads on the noninvasive localization of premature ventricular activity. In *Trendy v biomedicínském inženýrství 2017 : 12. česko-slovenská konference*. - Ostrava, ČR : VŠB – TU Ostrava, 2017, s. [1-5]. ISBN 978-80-248-4099-4.
- AFC20 VALÚCHOVÁ, Jana - PRNOVÁ, Anna - ŠVANČÁREK, Peter - PARCHOVIANSKÝ, Milan - MAJEROVÁ, Melinda - PLŠKO, Alfonz - GALUSEK, Dušan. Využitie HT RTG pri skúmaní tepelného správania lantanito-hlinitanových skiel. In *Konferencia o špeciálnych anorganických pigmentoch a práškových materiáloch, 23. září 2021, Pardubice, Česká republika : Sborník příspěvků 23. ročníku*. Zodpovedný redaktor Žaneta Dohnalová, eds. Petr Bělina, Žaneta Dohnalová, Pavla Honcová. - Pardubice, Česká republika : Univerzita Pardubice, 2021, p. 54-59. ISBN 978-80-7560-376-0.

#### **AFD Published papers from domestic scientific conferences**

- AFD01 CÍMROVÁ, Barbora - FARKAŠ, I. - GERGEL, Peter - ROSIPAL, Roman. Meranie kapacity vizuálnej priestorovej pracovnej pamäte a schopnosti filtrácie. In *Kognícia a umelý život 2019*. Zostavili: I. Farkaš, M. Tkáč, P. Gergel, M. Tomko ; recenzenti: Ľ. Beňušková, I. Budinská a ďalší. - Bratislava : Univerzita Komenského, 2019, s. 29-32. ISBN 978-80-223-4720-4.
- AFD02 COCHEROVÁ, Elena - ŠVEHLÍKOVÁ, Jana - TYŠLER, Milan. Activation in cardiac ventricular model with patient specific geometry and conduction system. In *Trendy v biomedicínskom inžinierstve 2019 : 13. konferencia slovenských a českých pracovníkov biomedicínskeho inžinierstva*. - Žilina, Slovak Republic : University of Žilina, 2019, p. non. ISBN 978-80-554-1587-1.

- AFD03 COCHEROVÁ, Elena. Dependence of the conduction velocity of atrial activation on the cell membrane parameters. In *Lekárska fyzika a biofyzika na začiatku 21. storočia 2 : Aplikácie fyziky v medicíne*. Zostavovatelia: K. Kozlíková, R. Knezovič; Recenzenti: R. Knezovič, K. Kozlíková, J. Murín, V. Szathmáry. - Bratislava : Univerzita Komenského v Bratislave, 2016, s. 18-21. ISBN 978-80-223-4254-4.
- AFD04 COCHEROVÁ, Elena. Evaluation of activation times in ventricular models with realistic and analytical geometry. In *YBERC 2018 : The 8th Young Biomedical Engineers and Researchers Conference*. - Košice, Slovak Republic : Technical University of Kosice, 2018, 2018, p. non. ISBN 978-80-8086-271-8.
- AFD05 CHVÁLA, A. - NAGY, L. - MAREK, J. - PRIESOL, J. - DONOVAL, D. - VILHAN, Martin - BLAHO, Michal - GREGUŠOVÁ, Dagmar - KUZMÍK, Ján - ŠATKA, A. Simulation analysis of InAlN/GaN monolithic NAND logic cell. In *ASDAM 2018 : The Twelfth International Conference on Advanced Semiconductor Devices and Microsystems*. Editors: J. Breza, D. Donoval, E. Vavrinsky. - IEEE, 2018, p. 167-170. ISBN 978-1-5386-7488-8. Dostupné na: <https://doi.org/10.1109/ASDAM.2018.8544508>
- AFD06 MAJEROVÁ, Melinda - PRNOVÁ, Anna - ŠKRÁTEK, Martin - DVUREČENSKIJ, Andrej - KRAXNER, Jozef - PARCHOVIANSKÝ, Milan - CIGÁŇ, Alexander - MAŇKA, Ján - GALUSEK, Dušan. Magnetic properties of aluminate glass microspheres with gehlenite matrix = Magnetické vlastnosti hlinitanových sklenených mikrogulôčok s gelenitovou matricou. In *Workshop Processing and properties of advanced ceramics, November 23-25, 2016, Ružín, Slovak Republic : book of extended abstracts*. Recenzenti: Dušan Galusek, Karel Maca, Zoltán Lenčéš, Miroslav Hnatko, Jaroslav Sedláček, Marián Mikula, Alexandra Kovalčíková; editor Jana Valúchová. - Bratislava, Slovak Republic : Institute of Inorganic Chemistry SAS, 2016, p. 57-63. ISBN 978-80-971648-5-0.
- AFD07 MAJEROVÁ, Melinda - PRNOVÁ, Anna - KLEMENT, Róbert - ŠKRÁTEK, Martin - CIGÁŇ, Alexander - DVUREČENSKIJ, Andrej - ŠVANČÁREK, Peter - KRAXNER, Jozef - MAŇKA, Ján - GALUSEK, Dušan. Ni-doped gehlenite glass microspheres: preparation and characterization = Ni-dopované gelenitové sklenené mikrogulôčky: príprava a charakterizácia. In *Workshop Processing and properties of advanced ceramics and glasses, November 20-22, 2019, Ráztočno, Slovak Republic : book of extended abstracts*. Ed. Jana Valúchová; recenzenti Marián Janek, Robert Klement, Alexandra Kovalčíková, Monika Micháľková, Jozef Ráhel', Peter Tatarko. - Bratislava, Slovak Republic : Institute of Inorganic Chemistry SAS, 2019, p. 126-135. ISBN 978-80-971648-8-1.
- AFD08 ONDRUŠOVÁ, Beáta\*\* - ŠVEHLÍKOVÁ, Jana. Effect of torso inhomogeneities on significance of ECG electrodes for forward and inverse problem. In *ELITECH '21 : 23rd Conference of Doctoral Students*. Editor: A. Kozáková; recenzenti: E. Miklovičová, V. Goga, V. Jančárik. - Bratislava, Slovak Republic : Vydavateľstvo Spektrum STU, 2021, p. [1-4]. ISBN 978-80-227-5098-1.
- AFD09 PŘIBIL, Jiří - PŘIBILOVÁ, Anna - FROLLO, Ivan. Analysis of vibration properties depending on a lying person weight in the scanning area of open and



closed MRI device. In *Noise and Vibration in Practice : Peer-reviewed Scientific Proceedings*. Vol. 23. Editor: S. Žiaran. - Bratislava, Slovak Republic : Slovak University of Technology, 2018, p. 79-84. ISBN 978-80227-4800-1.

- AFD10      PŘIBIL, Jiří - PŘIBILOVÁ, Anna - FROLLO, Ivan. Analysis of recording conditions for noise mapping in the vicinity of the open-air magnetic resonance imager. In *Noise and Vibration in Practice : Peer-reviewed Proceedings*. Vol. 21. Editor: S. Žiaran; Reviewers: Ľ. Argalášová, M. Balážiková, P. Beneš et al. - Bratislava, Slovakia : Slovak University of Technology, 2016, p. 109-114. ISBN 978-80-227-4563-5.
- AFD11      PŘIBIL, Jiří - DERMEK, Tomáš. Experimental laser-beam scanner equipment for 3D surface mapping and reconstruction. In *MECHATRONIKA 2016 : Proceedings of 14th International Symposium MEMS 2016*. Editor: J. Vluka. - Bratislava, Slovakia : Slovak University of Technology, 2016, p. 133-141. ISBN 978-80-227-4564-2.
- AFD12      PŘIBIL, Jiří - PŘIBILOVÁ, Anna - GOGOLA, Daniel - FROLLO, Ivan. Measurement of noise and vibration produced by the whole-body magnetic resonance imager working with a weak magnetic field. In *Noise and Vibration in Practice : Peer-reviewed Scientific Proceedings*. Vol. 22. Editor: S. Žiaran; Reviewers: Ľ. Argalášová, M. Balážiková, P. Beneš et al. - Bratislava, Slovak Republic : Slovak University of Technology, 2017, p. 65-70. ISBN 978-80-227-4696-0.
- AFD13      PŘIBIL, Jiří - PŘIBILOVÁ, Anna - FROLLO, Ivan. Objective and subjective evaluation of noise and vibration produced by a low-field MRI device. In *Noise and Vibration in Practice : Peer-reviewed Scientific Proceedings*. Vol. 24. Editors: S. Žiaran, O. Chlebo. - Bratislava, Slovak Republic : Slovak University of Technology, 2019, p. 45-50. ISBN 978-80-227-4917-6.
- AFD14      ROŠŤÁKOVÁ, Zuzana - ROSIPAL, Roman. Changes in sleep electroencephalogram in patients following an ischemic stroke. In *Proceedings of ELITECH '18 : 20th Conference of Doctoral Students*. Editor: A. Kozáková; Reviewers: J. Cigánek, D. Rosinová. - Bratislava, Slovak Republic : Slovak University of Technology, 2018, p. [1-5]. ISBN 978-80-227-4794-3.
- AFD15      TYŠLER, Milan - ŠVEHLÍKOVÁ, Jana - ZELINKA, Ján - HAŠKA, M. - HATALA, R. Noninvasive localization of the origin of ectopic ventricular activation. In *Trendy v biomedicínskom inžinierstve 2019 : 13. konferencia slovenských a českých pracovísk biomedicínskeho inžinierstva*. - Žilina, Slovak Republic : University of Žilina, 2019, p. non. ISBN 978-80-554-1587-1.
- AFD16      VILHAN, Martin - ŠATKA, A. - PRIESOL, J. TDR and TDT methods for measuring pulse characteristics of semiconductor devices. In *Proceedings of ELITECH '19 : 21th Conference of Doctoral Students*. Editor: A. Kozáková; Reviewers: G. Juhás, V. Šály. - Bratislava, Slovak Republic : Slovak University of Technology, 2019, p. non. ISBN 978-80-227-4915-2.

#### **AFE Abstracts of invited papers from foreign conferences**

AFE01 WITKOVSKÝ, Viktor. Computational tools and methods for statistical inference based on using the characteristic functions. In *12th International Conference on Computational and Financial Econometrics (CFE 2018) and 11th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2018)*. Editors: A. Colubi, E.J. Kontoghiorghes, H.K. Van Dijk. - EcoSta Econometrics and Statistics, 2018, p. 46. ISBN 978-9963-2227-5-9.

AFE02 WITKOVSKÝ, Viktor. Development of tools for numerical inversion of the characteristic functions and the exact distributions of multivariate test statistics. In *12th Workshop on Statistics, Mathematics and Computation (WSMC12) : In Honour of Professor Carlos Braumann. Book of Abstracts*. Editors: A. Oliveira, C. Nunes, D. Ferreira, L. Grilo, S. Ferreira, T.A. Oliveira. - Covilhã, Portugal : University of Beira Interior, 2018, p. 8-9. ISBN 978-989-654-485-0.

### **AFG Abstracts of papers from foreign conferences**

AFG01 APPS, A. - LAU, J.Y.C. - ELLIS, J. - PETERZAN, M. - HUNDERTMARK, M. - TYLER, D.J. - SCHMID, A.I. - NEUBAUER, S. - RIDER, O. - VALKOVIČ, Ladislav - RODGERS, C.T. Myocardial Pi/PCr and pH during stress at 7T with STEAM 31P MRS in dilated cardiomyopathy; heart failure beyond the ejection fraction. In *Proceedings of the 2020 ISMRM & SMRT Virtual Conference & Exhibition*. - International Society for Magnetic Resonance in Medicine (ISMRM), 2020, vol. 28, p. 0375. ISSN 1545-4428.

AFG02 BACHAROVÁ, L. - SZATHMÁRY, Vavrinec - MATEASIK, A. - ŠVEHLÍKOVÁ, Jana - TYŠLER, Milan. A difference between the depolarization time and QRS duration in heart failure patients with LBBB: A simulation study. In *Journal of Electrocardiology*, 2018, vol. 51, no. 6, p. 1180-1181. (2017: 1.421 - IF, Q4 - JCR, 0.710 - SJR, Q2 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0022-0736.

AFG03 BERNÁTOVÁ, Iveta - BALIŠ, Peter - KLUKNAVSKÝ, Michal - MIČUROVÁ, Andrea - ŠKRÁTEK, Martin - MAŇKA, Ján. Polyethylene glycol-coated magnetite nanoparticles alter gene expressions of acute phase proteins involved in iron metabolism in Wistar-Kyoto rats. In *NANOCON 2019 : abstracts*. - Ostrava : Tanger Ltd., 2019, p. 114. ISBN 978-80-87294-94-9.

AFG04 CLARKE, W.T. - HINGERL, L. - BOGNER, W. - RODGERS, C.T. - VALKOVIČ, Ladislav. Fast 31P-MRSI of the brain at 3T using concentric ring (CONCEPT) MRSI. In *Proceedings of the 2020 ISMRM & SMRT Virtual Conference & Exhibition*. - International Society for Magnetic Resonance in Medicine (ISMRM), 2020, vol. 28, p. 2974. ISSN 1545-4428.

AFG05 CLARKE, W.T. - HINGERL, L. - BOGNER, W. - VALKOVIČ, Ladislav - RODGERS, C.T. 31P-MRSI of the human heart in 2 ½ minutes at 7T using concentric rings (CONCEPT). In *Proceedings of the 2020 ISMRM & SMRT Virtual Conference & Exhibition*. - International Society for Magnetic Resonance in Medicine (ISMRM), 2020, vol. 28, p. 0479. ISSN 1545-4428.

AFG06 CLUITMANS, M.J.M. - GHIMIRE, S. - DHAMALA, J. - COLL-FONT, J. - TATE, J.D. - GIFFARD-ROISIN, S. - ŠVEHLÍKOVÁ, Jana - DOESSEL, O. -

- GUILLEM, M.S. - BROOKS, D.H. - MACLEOD, R.S. - WANG, L. Noninvasive localization of premature ventricular complexes: A research-community-based approach. In *Europace*, 2018, vol. 20, suppl. 1, p. i210. (2017: 5.231 - IF, Q1 - JCR, 2.748 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1099-5129.
- AFG07 DEUTSCH, E. - TYŠLER, Milan - ŠVEHLÍKOVÁ, Jana - KNEPPO, P. The accuracy of noninvasive localization of ectopic focus: Simulation study of the impact of focus position and used ECG leads. In *Journal of Electrocardiology*, 2018, vol. 51, no. 6, p. 1163. (2017: 1.421 - IF, Q4 - JCR, 0.710 - SJR, Q2 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0022-0736.
- AFG08 ELLIS, J. - VALKOVIČ, Ladislav - PURVIS, L.A.B. - CLARKE, W.T. - RODGERS, C.T. Reproducibility of cardiac 31P MRS at 7 T. In *Joint Annual Meeting ISMRM & ESMRMB*. - International Society for Magnetic Resonance in Medicine, 2018, vol. 26, p. 0621. ISSN 1545-4428.
- AFG09 HANNINGER, I. - LEVELT, E. - RAYNER, J. - RODGERS, C.T. - NEUBAUER, S. - GRAU, V. - RIDER, O. - VALKOVIČ, Ladislav. Cardiac metabolism assessed by MR Spectroscopy to classify the diabetic and obese heart: a Random Forest and Bayesian network study. In *Proceedings of the 2021 ISMRM & SMRT Annual Meeting & Exhibition*. - International Society for Magnetic Resonance in Medicine (ISMRM), 2021, vol. 29, p. 2671. ISSN 1545-4428.
- AFG10 CHVOSTEKOVÁ, Martina. Multiple-use confidence regions in multivariate calibration problem. In *11th International Conference on Computational and Financial Econometrics (CFE 2017) and 10th International Conference of the ERCIM (European Research Consortium for Informatics and Mathematics) Working Group on Computational and Methodological Statistics (CMStatistics 2017)*. - EcoSta Econometrics and Statistics, 2017, p. 125. ISBN 978-9963-2227-4-2.
- AFG11 JAKUBÍK, Jozef. Convex variable selection for high-dimensional linear mixed models. In *11th International Conference on Computational and Financial Econometrics (CFE 2017) and 10th International Conference of the ERCIM (European Research Consortium for Informatics and Mathematics) Working Group on Computational and Methodological Statistics (CMStatistics 2017)*. - EcoSta Econometrics and Statistics, 2017, p. 125. ISBN 978-9963-2227-4-2.
- AFG12 KOZMANN, G. - TUBOLY, G. - SZATHMÁRY, Vavrínek - ŠVEHLÍKOVÁ, Jana - TYŠLER, Milan. Model interpretation of BSPM based SCD risk markers. In *Journal of Electrocardiology*, 2018, vol. 51, no. 6, p. 1163. (2017: 1.421 - IF, Q4 - JCR, 0.710 - SJR, Q2 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0022-0736.
- AFG13 MAJEROVÁ, Melinda - PRNOVÁ, Anna - KRAXNER, Jozef - PECUŠOVÁ, Beáta - RANDÁKOVÁ, S. - PLŠKO, Alfonz - GALUSEK, Dušan. Crystallization kinetics of Bi-doped 2CaO-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> glasses. In *CEEC-TAC6 & Medicta 2021 : 6th Central and Eastern European Conference on Thermal Analysis and Calorimetry & 15th Mediterranean Conference on Calorimetry and Thermal*

*Analysis : book of abstracts.* - Romania : CEEC-TAC, 2021, p. 189. ISBN 978-606-11-7861-2.

- AFG14 MILLER, J.J. - KERR, M. - VALKOVIČ, Ladislav - TIMM, K. - LAU, J.Y.C. - BOTTOMLEY, P.A. - HEATHER, L. - TYLER, D.J. ATP Degradation Rates are altered in the Diabetic Myocardium: A 31P Saturation Transfer Study (with Dual-band, quasi-Adiabatic Optimal Control). In *Proceedings of the 2020 ISMRM & SMRT Virtual Conference & Exhibition.* - International Society for Magnetic Resonance in Medicine (ISMRM), 2020, vol. 28, p. 2239. ISSN 1545-4428.
- AFG15 NOSKO, Martin - ŠIPOŠ, Eduard - ŠIŠKOVÁ, Alena - KLEINOVÁ, Angela - GIGAC, Juraj - HAIN, Miroslav. Forensic study of paper documentation for contractual fraud revelation purposes. In *Forensic Imaging Techniques - an exploration of their potential as standalone tools and within a multimodal approach : book of abstracts.* - Zagreb : Ruder Bošković Institute, 2018, p.46. ISBN 978-953-79-41-25-3.
- AFG16 POLLACO, J. - CLARKE, W.T. - HESS, A. - SAVIC, D. - RODGERS, C.T. - TYLER, D.J. - MILLER, J.J. - VALKOVIČ, Ladislav. Detection of acetyl-carnitine in the human heart in vivo using long echo-time 1H-MRS at 3T. In *Proceedings of the 2020 ISMRM & SMRT Virtual Conference & Exhibition.* - International Society for Magnetic Resonance in Medicine (ISMRM), 2020, vol. 28, p. 2923. ISSN 1545-4428.
- AFG17 ROSIPAL, Roman - PORUBCOVÁ, N. - BARANČOK, P. - CIMROVÁ, B. - TEPLAN, Michal - FARKAŠ, I. Brain-computer interface with robot-assisted training for neurorehabilitation. In *Artificial Neural Networks and Machine Learning – ICANN 2017.* LNCS 10613. - Springer, 2017, p. 418. ISBN 978-3-319-68599-1.
- AFG18 ROSIPAL, Roman - PORUBCOVÁ, N. - CIMROVÁ, B. - FARKAŠ, I. Mirror-box training in healthy subjects and a patient with hemiparesis. In *Clinical Neurophysiology*, 2016, vol. 127, no. 3, p. e53. (2015: 3.426 - IF, Q2 - JCR, 1.582 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 1388-2457.
- AFG19 ROSIPAL, Roman - TREJO, L.J. - WALLERIUS, John - APPARIES, Ross - CIMROVÁ, Barbora - MILLER, James. Whole-brain time-frequency analysis of event-related potentials for the assessment of pharmacodynamic effects in the human brain. In *Neuropsychiatric Electrophysiology*, 2016, vol. 2, suppl. 1, p. 17. ISSN 2055-4788.
- AFG20 ROŠŤÁKOVÁ, Zuzana - ROSIPAL, Roman. Differences in sleep microstate curves among healthy sleepers and patients after stroke. In *Clinical Neurophysiology*, 2016, vol. 127, no. 3, p. e126. (2015: 3.426 - IF, Q2 - JCR, 1.582 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 1388-2457.
- AFG21 SCHMID, A.I. - VALKOVIČ, Ladislav - TUNNICLIFFE, M. - RODGERS, C.T. Unambiguous detection of cardiac Pi using long TM 31P STEAM. In *Joint*

*Annual Meeting ISMRM & ESMRMB*. - International Society for Magnetic Resonance in Medicine, 2018, vol. 26, p. 3990. ISSN 1545-4428.

- AFG22      TEPLAN, Michal - STRBAK, O. - CIFRA, M. - BAJLA, Ivan.  
Electromagnetic resonance in biological systems. In *Biophysical Aspects of Cancer : 10th International Fröhlich's Symposium. Book of Abstracts and Program*. - Prague, Czech Republic : Institute of Physics AS CR, 2016, p. 40. ISBN 978-80-905962-5-2.
- AFG23      TEPLAN, Michal - BERETA, Martin - BAJLA, Ivan - HABA, Y. - CIFRA, M.  
Experimental platform for measurement of biological response of cells to weak low frequency magnetic fields. In *Joint Meeting of the Bioelectromagnetics Society and the European BioElectromagnetics Association (BioEM2018)*. - Frederick, MD, US : Bioelectromagnetics Society, 2018, p. 101. ISBN 978-1-5108-7133-5.
- AFG24      TYLER, A. - LAU, J.Y.C. - ELLIS, J. - MILLER, J.J. - BOTTOMELY, P.A. -  
RODGERS, C.T. - TYLER, D.J. - VALKOVIČ, Ladislav. Increased SNR and improved reproducibility for cardiac 31P MRS at 7T using compartmentalized spectroscopy. In *Proceedings of the 2021 ISMRM & SMRT Annual Meeting & Exhibition*. - International Society for Magnetic Resonance in Medicine (ISMRM), 2021, vol. 29, p. 3625. ISSN 1545-4428.
- AFG25      VALKOVIČ, Ladislav - CLARKE, W. - PURVIS, L. - SCHALLER, B. -  
FROLLO, Ivan - ROBSON, M. - RODGERS, C. Evaluation of PCr/ATP ratio in the human heart at 7T using adiabatic excitation. In *Magnetic Resonance Materials in Physics, Biology and Medicine*, 2016, vol. 29, suppl. 1, p. S212. (2015: 2.638 - IF, Q2 - JCR, 0.944 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0968-5243.
- AFG26      VALKOVIČ, Ladislav - APPS, A. - ELLIS, J. - TYLER, D.J. - NEUBAUER, S. - SCHMID, A.I. - RIDER, O. - RODGERS, C.T. Increased cardiac Pi in the diabetic heart observed using STEAM 31P MRS at 7T. In *Proceedings of the 2021 ISMRM & SMRT Annual Meeting & Exhibition*. - International Society for Magnetic Resonance in Medicine (ISMRM), 2021, vol. 29, p. 0023. ISSN 1545-4428.
- AFG27      VALKOVIČ, Ladislav - DRAGONU, I. - ALMUJAYYAZ, S. - BATZAKIS, A. - YOUNG, L.A.J. - PURVIS, L.A.B. - CLARKE, W.T. - WICHMANN, T. - LANZ, T. - FROLLO, Ivan - NEUBAUER, S. - ROBSON, M.D. - KLOMP, D.W.J. - RODGERS, C.T. Phosphorus Spectroscopic Imaging and B1+ mapping of human heart using a whole body transmit coil with 16-channel receive array at 7T. In *Magnetic Resonance Materials in Physics, Biology and Medicine : Book of Abstracts ESMRMB 2017*, 2017, vol. 30, suppl 1, p. S248-S249. (2016: 1.718 - IF, Q3 - JCR, 0.935 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0968-5243.
- AFG28      VALKOVIČ, Ladislav - SCHMID, A.I. - PURVIS, L.A.B. - ELLIS, J. - ROBSON, M.D. - NEUBAUER, S. - RODGERS, C.T. Quantification of human cardiac inorganic phosphate content in vivo by P-MRSI at 7T. In *Joint Annual Meeting ISMRM & ESMRMB*. - International Society for Magnetic Resonance in Medicine, 2018, vol. 26, p. 3995. ISSN 1545-4428.

- AFG29 VALKOVIČ, Ladislav - CHMELÍK, M. - GAJDOŠÍK, M. - GAGOSKI, B. - RODGERS, C. - FROLLO, Ivan - KRŠŠÁK, M. - ANDRONESI, O. - TRATTNIG, S. - BOGNER, W. Recruitment of calf muscles during plantar flexion with different knee angulation investigated by dynamic spiral 31P-MRSI at 7T. In *Magnetic Resonance Materials in Physics, Biology and Medicine*, 2016, vol. 29, suppl. 1, p. S136. (2015: 2.638 - IF, Q2 - JCR, 0.944 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0968-5243.
- AFG30 VALKOVIČ, Ladislav - LAU, J.Y.C. - ABDESSELAM, I. - RIDER, O. - TYLER, D.J. - RODGERS, C.T. - MILLER, J.J.J.J. The effects of iodinated CT contrast agent on phosphorus MRS. In *Joint Annual Meeting ISMRM & ESMRMB*. - International Society for Magnetic Resonance in Medicine, 2018, vol. 26, p. 3882. ISSN 1545-4428.
- AFG31 VALKOVIČ, Ladislav - BATZAKIS, A. - ELLIS, J. - PURVIS, L. - SCHMID, A.I. - ROBSON, M.D. - KLOMP, D.W.J. - RODGERS, C.T. Whole-body 7T 31P birdcage transmit coil driven by a 35kW RF amplifier with an integrated 30-element 31P receive array and an 8-element 1H transmit/receive array. In *Joint Annual Meeting ISMRM & ESMRMB*. - International Society for Magnetic Resonance in Medicine, 2018, vol. 26, p. 0143. ISSN 1545-4428.
- AFG32 WIMMER, Gejza - WITKOVSKÝ, Viktor. Computing the distribution of collective risk models via numerical inversion of the characteristic function. In *CFE-CMStatistics 2016 : 10th International Conference on Computational and Financial Econometrics (CFE 2016) and 9th International Conference of the ERCIM (European Research Consortium for Informatics and Mathematics) Working Group on Computational and Methodological Statistics (CMStatistics 2016). Programme and Abstracts*. - CFE and CMStatistics Networks, 2016, p. 110. ISBN 978-9963-2227-1-1.
- AFG33 WITKOVSKÝ, Viktor. CharFunTool: The characteristic functions toolbox. In *11th International Conference on Computational and Financial Econometrics (CFE 2017) and 10th International Conference of the ERCIM (European Research Consortium for Informatics and Mathematics) Working Group on Computational and Methodological Statistics (CMStatistics 2017)*. - EcoSta Econometrics and Statistics, 2017, p. 126. ISBN 978-9963-2227-4-2.
- AFG34 WITKOVSKÝ, Viktor. On numerical inversion of the empirical characteristic function and its applications. In *CFE-CMStatistics 2016 : 10th International Conference on Computational and Financial Econometrics (CFE 2016) and 9th International Conference of the ERCIM (European Research Consortium for Informatics and Mathematics) Working Group on Computational and Methodological Statistics (CMStatistics 2016). Programme and Abstracts*. - CFE and CMStatistics Networks, 2016, p. 224. ISBN 978-9963-2227-1-1.
- AFG35 WITKOVSKÝ, Viktor. Tools for numerical inversion of the characteristic functions and their applications. In *MAT TRIAD 2017 : International Conference on MATRIX Analysis and its Applications. Book of Abstracts*. - Poznan, Poland : Bogucki Wydawnictwo Naukowe, 2017, p. 99. ISBN 978-83-7986-157-6.

- AFG36 YOUNG, L.A.J. - CERESA, C.D.L. - MILLER, J. - VALKOVIČ, Ladislav - VOYCE, D. - TUNNICLIFFE, M. - ELLIS, J. - TYLER, D.J. - FRIEND, P.J. - COUSSIOS, C.C. - RODGERS, C.T. Assessing metabolism and function of normothermically perfused ex vivo livers by multinuclear MR imaging and spectroscopy. In *Joint Annual Meeting ISMRM & ESMRMB*. - International Society for Magnetic Resonance in Medicine, 2018, vol. 26, p. 0446. ISSN 1545-4428.
- AFG37 YOUNG, L.A.J. - MILLER, J.J. - VALKOVIČ, Ladislav - HANSEN, E.S.S. - MCLEAN, M.A. - GALLAGHER, F.A. - LAUSTSEN, C. - TYLER, D.J. - RODGERS, C.T. - LAU, J.Y.C. ROKET: a Robust Keto Enol Tautomerisation phantom for multi-site, multi-vendor hyperpolarized <sup>13</sup>C studies. In *Proceedings of the 2020 ISMRM & SMRT Virtual Conference & Exhibition*. - International Society for Magnetic Resonance in Medicine (ISMRM), 2020, vol. 28, p. 3028. ISSN 1545-4428.

### **AFH Abstracts of papers from domestic conferences**

- AFH01 BACIAK, Ladislav - GOGOLA, Daniel - CUBÍNKOVÁ, Veronika - MURGOČI, Adriana-Natalia - SMOLEK, Tomáš - ČÍŽKOVÁ, Dáša. DIFFUSION TENSOR IMAGING OF TRAUMATIC INJURY IN RAT SPINAL CORD. In *Current Status of Experimental Neuroimmunology in Slovakia II : Košice 2018*. - Dunajská Lužná : AHO5, Institute of Neuroimmunology SAS, 2018, p. 13. ISBN 978-80-971357-7-5.
- AFH02 BALEJČÍKOVÁ, Lucia - STRBAK, O. - BAČIAK, L. - KOVÁČ, Jozef - MASÁROVÁ-KOZELOVÁ, Marta - KRAFČÍK, Andrej - PETERI, M. - KOPČANSKÝ, Peter - FROLLO, Ivan. MRI gradient echo pulse sequence as a physical tool in differentiation of native and reconstructed ferritin. In *16th Czech and Slovak Conference on Magnetism : Book of Abstracts*. - Košice : UPJŠ and ÚEF SAV, 2016, p. 325. ISBN 978-80-971450-9-5.
- AFH03 BERNÁTOVÁ, Iveta - MIČUROVÁ, Andrea - KLUKNAVSKÝ, Michal - BALIŠ, Peter - ŠKRÁTEK, Martin - OKRUHLICOVÁ, Ľudmila - MAŇKA, Ján. FE3O4@PEG nanoparticles alter iron metabolism and nitric oxide production in the liver of spontaneously hypertensive rats. In *30th Anniversary of the ISP : eBook of Abstracts*. - Bratislava : Centre of Experimental Medicine Slovak Academy of Sciences, 2021, p. 5. ISBN 978-80-89991-07-5.
- AFH04 BERNÁTOVÁ, Iveta - KLUKNAVSKÝ, Michal - MIČUROVÁ, Andrea - BALIŠ, Peter - VALOVIČ, Pavol - ŠKRÁTEK, Martin - CIGÁŇ, Alexander - MAŇKA, Ján. Repeated acute stress alters expressions of genes involved in iron metabolism in the liver of Wistar-Kyoto rats. In *96. Fyziologické dni : zborník abstraktov*. - Martin : Jesseniova Lekárska Fakulta v Martine Univerzita Komenského v Bratislave, 2020, s. 6. ISBN 978-80-8187-074-3.
- AFH05 BERNÁTOVÁ, Iveta - BALIŠ, Peter - MIČUROVÁ, Andrea - KLUKNAVSKÝ, Michal - PÚZSEROVÁ, Angelika - ŠKRÁTEK, Martin - MAŇKA, Ján - LIŠKOVÁ, Silvia. Vascular function and nitric oxide production in iron oxide nanoparticle-treated rats exposed to acute stress : lecture. In *Interdisciplinary toxicology*. - Bratislava : Slovak Toxicology Society SETOX :

Institute of Experimental Pharmacology and Toxicology SAS, 2021, vol. 14, suppl. 1, p. 20. (2020: 0.297 - SJR, Q3 - SJR). (2021 - SCOPUS). ISSN 1337-6853.

- AFH06 BYSTRICKÝ, Roman - ŠKRÁTEK, Martin - SEDLÁČEK, Jaroslav - RUSNÁK, Jaroslav - ŠAJGALÍK, Pavol. Electrical and magnetic properties of SiC with Ti and NbC as sintering aids. In *Engineering Ceramics 2019, Advanced Research Workshop: Ceramics for people, Smolenice castle, May 12-16, 2019 : book of abstracts*. - Bratislava, Slovakia : Institute of Inorganic Chemistry, Slovak Academy of Sciences, 2019, p. 67. ISBN 978-80-971648-7-4.
- AFH07 HLOUŠKOVÁ, Zuzana - CAPEK, Peter - DVUREČENSKIJ, Andrej - CAPEK, Ignác. Natural products based therapeutics. In *ChemZi : Slovenský časopis o chémii pre chemické vzdelávanie, výskum a priemysel*, 2017, roč. 13, č. 1, s. 154. ISSN 1336-7242.
- AFH08 MAJEROVÁ, Melinda - DVUREČENSKIJ, Andrej - CIGÁŇ, Alexander - ŠKRÁTEK, Martin - PRNOVÁ, Anna - KRAXNER, Jozef - GALUSEK, Dušan - MAŇKA, Ján. Magnetic properties of amorphous gehlenite glass microspheres. In *16th Czech and Slovak conference on magnetism : Book of abstracts. Košice, 13.-17.6.2016*. - Košice : UPJŠ and ÚEF SAV, 2016, p. 104. ISBN 978-80-971450-9-5.
- AFH09 MAJEROVÁ, Melinda - ŠKRÁTEK, Martin - HRUŠKA, Branislav - PÁLKOVÁ, Helena - DVUREČENSKIJ, Andrej - ŠVANČÁREK, Peter - PRNOVÁ, Anna - CIGÁŇ, Alexander - KRAXNER, Jozef - MAŇKA, Ján - GALUSEK, Dušan. Structure and magnetic properties of Bi-doped CaO-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> glass microspheres. In *SSC 2020. 14th International conference on solid state chemistry, 14 - 17 June 2021, Trenčín, Slovakia : book of abstracts*. - Trenčín, Slovakia : FunGlass - Centre for Functional and Surface Functionalized Glass, 2020, p. 21. ISBN 978-80-8075-947-6.
- AFH10 MIČUROVÁ, Andrea - KLUKNAVSKÝ, Michal - BALÍŠ, Peter - ŠKRÁTEK, Martin - CIGÁŇ, Alexander - MAŇKA, Ján - BERNÁTOVÁ, Iveta. Superparamagnetic polyethylene glycol-coated iron oxide nanoparticles alter expressions of genes involved in iron metabolism. In *96. Fyziologické dni : zborník abstraktov*. - Martin : Jesseniova Lekárska Fakulta v Martine Univerzita Komenského v Bratislave, 2020, s. 63. ISBN 978-80-8187-074-3.
- AFH11 PECUŠOVÁ, Beáta - PRNOVÁ, Anna - VALÚCHOVÁ, Jana - JANIČÍKOVÁ, Mária - MAJEROVÁ, Melinda - GALUSEK, Dušan. Study of thermal properties of inorganic materials. In *FunGlass School 2021, Osrblie, October 10-13, 2021 : Book of Abstracts*. - Trenčín, Slovenská republika : FunGlass, 2021, p. 28. ISBN 978-80-8075-964-3.
- AFH12 PRIESOL, J. - ŠATKA, Alexander - KUZMÍK, J. - HASENÖHRL, S. - CHAUHAN, P. - UHEREK, F. - HAŠKO, D. Characterization of In-rich InAlN layers by panchromatic and spectrally resolved cathodoluminescence. In *Proceedings of 11th Solid State Surfaces and Interfaces (ISSS 2020)*. - Bratislava, Slovak Republic : Comenius University Bratislava, 2020, p. 76-77. ISBN 978-80-223-5018-1.



- AFH13 PRNOVÁ, Anna - VALÚCHOVÁ, Jana - PARCHOVIANSKÝ, Milan - MAJEROVÁ, Melinda - ŠVANČÁREK, Peter - HANZEL, Ondrej - GALUSEK, Dušan. HP, RHP and SPS of Al<sub>2</sub>O<sub>3</sub>-Y<sub>2</sub>O<sub>3</sub> glass microspheres: sintering conditions, grain size, and mechanical properties of sintered ceramics. In *SSC 2020. 14th International conference on solid state chemistry, 14 - 17 June 2021, Trenčín, Slovakia : book of abstracts*. - Trenčín, Slovakia : FunGlass - Centre for Functional and Surface Functionalized Glass, 2020, p. 22. ISBN 978-80-8075-947-6.
- AFH14 STRBAK, O. - KUBOVČÍKOVÁ, Martina - BAČIAK, L. - KHMARA, I. - GOGOLA, Daniel - KONERACKÁ, Martina - ZÁVIŠOVÁ, Vlasta - ANTAL, Iryna - MASÁROVÁ-KOZELOVÁ, Marta - KOPČANSKÝ, Peter - FROLLO, Ivan. BSA effect on contrast properties of magnetite nanoparticles during MRI. In *16th Czech and Slovak Conference on Magnetism : Book of Abstracts*. - Košice : UPJŠ and ÚEF SAV, 2016, p. 330. ISBN 978-80-971450-9-5.
- AFH15 ŠATKA, Alexander - PRIESOL, J. - YOU, S. - GEENS, K. - DECOUTERE, S. Investigation of semi-vertical GaN FET structures using EBIC method. In *Proceedings of 11th Solid State Surfaces and Interfaces (ISSS 2020)*. - Bratislava, Slovak Republic : Comenius University Bratislava, 2020, p. 92-93. ISBN 978-80-223-5018-1.
- AFH16 VALÚCHOVÁ, Jana - PRNOVÁ, Anna - ŠVANČÁREK, Peter - PARCHOVIANSKÝ, Milan - MAJEROVÁ, Melinda - PLŠKO, Alfonz - GALUSEK, Dušan. HT XRD in investigation of thermal behavior of lanthanum-aluminate glasses. In *FunGlass School 2021, Osrbie, October 10-13, 2021 : Book of Abstracts*. - Trenčín, Slovenská republika : FunGlass, 2021, p. 29. ISBN 978-80-8075-964-3.

#### **AFL Domestic conferences posters**

- AFL01 CIMROVÁ, Barbora - ROŠŤÁKOVÁ, Zuzana - VARGA DOLEŽALOVÁ, Monika - RYBÁR, Ján - FARKAŠ, Igor - ROSIPAL, Roman. Keď cievy zradia mozog: kvalita spánku a kognitívny výkon pacientov po náhlej cievnej mozgovej príhode. In *Srdce, mozog, cievy: od normálnej k patologickej fyziológii : zborník abstraktov, Smolenice, 4.-6. apríl 2017*. - Bratislava : Ústav normálnej a patologickej fyziológie SAV, 2017, s. 23. ISBN 978-80-971699-7-8.
- AFL02 MIČUROVÁ, Andrea - KLUKNAVSKÝ, Michal - BALIŠ, Peter - OKRUHLICOVÁ, Ľudmila - ŠKRÁTEK, Martin - MAŇKA, Ján - BERNÁTOVÁ, Iveta. F3O4@peg nanoparticles reduced blood pressure while high blood pressure accelerated nanoparticle elimination from circulation in SHR rats. In *Interdisciplinary toxicology*. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2021, vol. 14, suppl. 1, p. 37. (2020: 0.297 - SJR, Q3 - SJR). (2021 - SCOPUS). ISSN 1337-6853.
- AFL03 ŠKRÁTEK, Martin - DVUREČENSKIJ, Andrej - PÚZSEROVÁ, Angelika - BALIŠ, Peter - SVOREŇ, Pavol - BILYNSKÁ, V. - CIGÁŇ, Alexander - MAŇKA, Ján - BERNÁTOVÁ, Iveta. Age-dependent differences in the left heart ventricle tissue magnetization of spontaneously hypertensive rats. In *Pathophysiology : The*

**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 HAIN, Miroslav - BARTL, Ján - KŮR, J. - KŮR, B. *Způsob vyhledávání povrchových defektů, zejména ložiskových kroužků, a zařízení pro provádění tohoto způsobu (Method of retrieving surface defects especially that of bearing rings and device for making the same) : Patent CZ 306 088. (Přihlašovatel/Majitel: Ústav merania SAV, Bratislava, SK; Mesing, s.r.o., Brno, CZ). Praha, ČR : Úřad průmyslového vlastnictví, 22.06.2016*

AGJ02 SMRČKA, P. - HÁNA, K. - KAŠPAR, J. - KNEPPO, P. - TYŠLER, Milan. *Systém pro měření biologických a technických veličin v prostředí silného a proměnlivého elektromagnetického pole : Patent CZ 307 752. (Majitel patentu: České vysoké učení technické v Praze, Praha, CZ). Praha, ČR : Úřad průmyslového vlastnictví, 06.03.2019*

**BDE Professional papers in other foreign journals (not registered in CCC)**

BDE01 BARTL, Ján - HAIN, Miroslav. *Fyzikálny prieskum oltárnej skrine a tabuľových malieb v chráme sv. Jakuba v Levoči. In Technický týdeník, 2018, roč. LXVI, č. 24, s. 20-21. ISSN 0040-1064.*

**BDF Professional papers in other domestic journals (not registered in CCC)**

BDF01 BARTL, Ján - FÍRA, R. *Dimensional measurement using the diffraction. In Metrológia a skúšobníctvo, 2017, roč. 22, č. 1, s. 11-15. ISSN 1335-2768.*

BDF02 BARTL, Ján. *Hodnotenie mikrobiálnej deteriorácie meraním drsnosti. In Metrológia a skúšobníctvo, 2018, roč. 23, č. 1, s. 13-17. ISSN 1335-2768.*

BDF03 BARTL, Ján - HUJEČEK, Oliver - JACKO, Vlado. *Meracia stanica MSH 10. In Metrológia a skúšobníctvo, 2017, roč. 22, č. 2, s. 37-38. ISSN 1335-2768.*

BDF04 BARTL, Ján. *Meranie teploty kysliko-vodíkoveho plameňa. In Metrológia a skúšobníctvo, 2016, roč. 21, č. 1, s. 31-34. ISSN 1335-2768.*

BDF05 BARTL, Ján - JACKO, Vlado - HAIN, Miroslav. *Meranie teploty substrátov počas iónovej implantácie. In Metrológia a skúšobníctvo, 2016, roč. 21, č. 2, s. 14-17. ISSN 1335-2768.*

BDF06 BARTL, Ján - JACKO, Vlado. *Meranie teploty povrchu pôdy. In Metrológia a skúšobníctvo, 2017, roč. 22, č. 2, s. 14-17. ISSN 1335-2768.*

BDF07 BARTL, Ján. *Meranie vs. Metrológia. In Metrológia a skúšobníctvo, 2017, roč. 22, č. 1, s. 33-36. ISSN 1335-2768.*

- BDF08 BARTL, Ján - JACKO, Vlado. Meranie vlhkosti vzduchu absorpciou infračerveného žiarenia. In *Metrológia a skúšobníctvo*, 2016, roč. 21, č. 2, s. 3-8. ISSN 1335-2768.
- BDF09 BARTL, Ján. Mikroskop na diagnostikovanie obežných dráh ložísk pre spriadacie stroje. In *Metrológia a skúšobníctvo*, 2018, roč. 23, č. 1, s. 18-19. ISSN 1335-2768.
- BDF10 BARTL, Ján - HAIN, Miroslav - JACKO, Vlado. New trends in functional surface testing of the machine engineering production. In *Metrológia a skúšobníctvo*, 2016, roč. 21, č. 1, s. 13-18. ISSN 1335-2768.
- BDF11 BARTL, Ján - HAIN, Miroslav - JACKO, Vlado. Physical - optical methods for non-destructive analysis and testing of cultural heritage. In *Metrológia a skúšobníctvo*, 2017, roč. 22, č. 1, s. 4-10. ISSN 1335-2768.
- BDF12 BARTL, Ján. Prieskum umeleckých diel RTG lúčmi. In *Metrológia a skúšobníctvo*, 2016, roč. 21, č. 1, s. 4-12. ISSN 1335-2768.
- BDF13 BARTL, Ján. Prístroj na kontrolu guľových plôch – Aplikácia v ložiskovom priemysle. In *Metrológia a skúšobníctvo*, 2017, roč.22, č. 2, s. 18-23. ISSN 1335-2768.
- BDF14 BARTL, Ján. Problematika merania škodlivín v životnom prostredí. In *Metrológia a skúšobníctvo*, 2017, roč. 22, č. 1, s. 16-19. ISSN 1335-2768.
- BDF15 BARTL, Ján. Šum polovodičových detektorov žiarenia. In *Metrológia a skúšobníctvo*, 2017, roč. 22, č. 2, s. 4-9. ISSN 1335-2768.
- BDF16 BARTL, Ján - JACKO, Vlado. Tenké vrstvy v optických systémoch. In *Metrológia a skúšobníctvo*, 2017, roč. 22, č. 2, s. 24-29. ISSN 1335-2768.

**BEE Professional papers in foreign proceedings (conference/non-conference; peer-reviewed/non-peer-reviewed)**

- BEE01 RYBÁR, Ján - CIMROVÁ, Barbora - FARKAŠ, Igor - VARGA DOLEŽALOVÁ, Monika - ROSIPAL, Roman. Špecifiká kognitívneho výkonu pacientov po ložiskovej ischémii mozgu. In *Kognice a umělý život XVI : Sborník z 16. ročníku konference Kognice a umělý život (KUZ XVI)*. - Praha : ČVUT v Praze, 2016, s. 135-141. ISBN 978-80-01-05915-9.
- BEE02 TEPLAN, Michal\*\* - VU VIET, Hoang. Impedance spectroscopy monitoring of magnetic field effects on yeast cells. In *International Workshop on Impedance Spectroscopy (IWIS 2021)*. - Chemnitz, Germany : Technische Universität Chemnitz, 2021, p. 151-154. ISBN 978-3-949744-00-6.

**BEF Professional papers in domestic proceedings (conference/non-conference; peer-reviewed/non-peer-reviewed)**

- BEF01 MAJEROVÁ, Melinda - KLEMENT, Róbert - PRNOVÁ, Anna - KRAXNER, Jozef - GALUSEK, Dušan. Preparation of Bi-doped gehlenite glass microspheres by solid state reaction and flame synthesis. In *Processing and Properties of Advanced*

*Ceramics and Glass*. - Trencin, Slovak Republic : Glass Centre of Competence, Vitrum Laugaricio, 2017, p. 62-72. ISBN 978-80-8075-786-1.

#### **DAI Dissertations and habilitation theses**

- DAI01 DVUREČENSKIJ, Andrej. *Príspevok k využitiu a rozvoju SQUID magnetometrie pri vývoji a charakterizovaní nových materiálov a suspenzií na báze nanočastíc oxidov, supravodičov a nanoštruktúr v iónových kvapalinách : Dizertačná práca FEI-10839-10456*. Bratislava, 2016. 174 s.
- DAI02 KALAVSKÝ, Peter. *GPU-accelerated model-based measuring methods for investigation of cardiac electrical activity : Dissertation thesis*. Bratislava, 2016. 149 p.

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

- FAI01 *MEASUREMENT 2021 : Proceedings of the 13th International Conference on Measurement* [elektronický zdroj]. Editors A. Dvurečenskij, J. Maňka, J. Švehlíková, V. Witkovský. Bratislava : Institute of Measurement Science, SAS, 2021. 258 p. ISBN 978-80-972629-4-5
- FAI02 *MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement*. Editors J. Maňka, M. Tyšler, V. Witkovský, I. Frollo. Bratislava, Slovakia : Institute of Measurement Science, SAS, 2017. xiii, 268 p. ISBN 978-80-972629-0-7
- FAI03 *MEASUREMENT 2019 : Proceedings of the 12th International Conference on Measurement*. Editors: J. Maňka, J. Švehlíková, V. Witkovský, I. Frollo. Bratislava, Slovakia : Institute of Measurement Science, Slovak Academy of Sciences, 2019. 340 p. ISBN 978-80-972629-2-1

#### **GHG Works published on the internet**

- GHG01 WITKOVSKÝ, Viktor. Exact distribution of selected multivariate test criteria by numerical inversion of their characteristic functions. In *arXiv:1801.02248 [stat.CO]*, 2018, 13 p.

#### **GII Other publications and documents which is not possible to categorize into classes/categories mentioned above**

- GII01 BAJLA, Ivan - TEPLAN, Michal. Microscopic cell image decoloring and segmentation ROC-based optimization. In *The Joint Annual Meeting of the Bioelectromagnetics Society and the European BioElectromagnetics Association (BIOEM 2020)*. - BEMS, EBEA, 2020, p. 36-39.
- GII02 BARTL, Ján. Fyzikálne základy merania dĺžky a geometrických veličín. In *Meranie dĺžky a kalibrácia meradiel dĺžky v praxi*. - Bratislava : Kalibračné združenie SR, 2016, s. 41-53.
- GII03 BARTL, Ján - JACKO, Vlado. Kovové sklá. In *Zborník prednášok z konferencie a 47. Zhromaždenia KZ SR*. - Bratislava : Kalibračné združenie SR, 2017, s. 48-51.

- GII04 BARTL, Ján. Úvod do metrológie. In *Meranie dĺžky a kalibrácia meradiel dĺžky v praxi*. - Bratislava : Kalibračné združenie SR, 2018, s. 3-18.
- GII05 BARTOŠOVÁ, Katarína. Klasifikácia zašumených dát pre rastúci počet vstupných premenných. In *ROBUST 2018 : Sborník abstraktů*. - Praha, ČR : JČMF, 2018, p. 1.
- GII06 BERETA, Martin - TEPLAN, Michal - CHAFAI, D. - RADIL, R. - CIFRA, M. Monitoring of low frequency magnetic and pulsed electric field biological effects on yeast cells using biological autoluminescence. In *The Joint Annual Meeting of the Bioelectromagnetics Society and the European BioElectromagnetics Association (BioEM 2019)*. - The Bioelectromagnetics Society, 2019, p. 413-415.
- GII07 BERNÁTOVÁ, Iveta - ŠKRÁTEK, Martin - PÚZSEROVÁ, Angelika - BALIŠ, Peter - SVOREŇ, Pavol - CIGÁŇ, Alexander - MAŇKA, Ján. Strain- and age-dependent differences in tissue magnetisation of normotensive and spontaneously hypertensive rats. In *European Iron Club Annual Meeting 2018, Zürich, 8. - 11.2.2018 : abstract book*. - Zürich, 2018, p. 112.
- GII08 BYSTRICKÝ, Roman - SEDLÁČEK, Jaroslav - ŠKRÁTEK, Martin - ŤAPAJNA, Milan - ŠAJGALÍK, Pavol. Electrical and magnetic properties of SiC ceramics with addition of Ti and NbC. In *ECerS 2017 : 15th International Conference and exhibition of the European Ceramic Society. Book of abstracts. Budapest, 9.-13.7.2017*. - B.V., 2017, p. 219-220.
- GII09 CAPEK, Ignác. Smart natural polyphenols nanoprodug conjugates. In *Nanomedicine and Nanotechnology Journal*, 2020, vol. 3, no. 1, p. 126.
- GII10 ĎURIŠ, S. - ĎURIŠOVÁ, Z. - WIMMER, Gejza - WITKOVSKÝ, Viktor - PAVLÁSEK, P. - PALENČÁR, J. Determination of certified value and its uncertainty by several methods showed on gaseous primary reference material of ethanol in nitrogen prepared by gravimetric method. In *Mathematics, Statistics and Computation to Support Measurement Quality (MSCSMQ 2018) : Book of Abstracts*. - St. Petersburg, Russia : Mendeleyev Institute for Metrology, 2018, p. 158-159.
- GII11 DVUREČENSKIJ, Anatolij - WITKOVSKÝ, Viktor. Prof. RNDr. Gejza Wimmer, DrSc. - A Septuagenarian? In *Mathematica Slovaca*, 2019, vol. 69, no. 2, p. 253-256. (2018: 0.490 - IF, Q4 - JCR, 0.279 - SJR, Q3 - SJR). ISSN 0139-9918. Dostupné na: <https://doi.org/10.1515/ms-2017-0219>
- GII12 DVUREČENSKIJ, Anatolij - VOLAUFOVÁ, J. - WIMMER, Gejza - WITKOVSKÝ, Viktor. Prof. RNDr. Ing. Lubomír Kubáček, DrSc., Dr.h.c. – Nonagenarian. In *Mathematica Slovaca*, 2021, vol. 71, no. 1, p. 1-4. (2020: 0.770 - IF, Q3 - JCR, 0.445 - SJR, Q2 - SJR). ISSN 0139-9918. Dostupné na: <https://doi.org/10.1515/ms-2017-0447>
- GII13 CHVOSTEKOVÁ, Martina. Calibration experiment for multivariate statistical calibration. In *Model-Oriented Data Analysis and Optimum Design (mODa 12)*. - Bratislava, Slovakia : Faculty of Mathematics, Physics and Informatics, Comenius University in Bratislava, 2019, p. 18.

- GII14 CHVOSTEKOVÁ, Martina. Inferring causal interactions in bivariate time series. In *Olomoucian Days of Applied Mathematics (ODAM 2019) : Book of Abstracts*. - Olomouc, Czech Republic : Palacký University in Olomouc, 2019, p. 24.
- GII15 CHVOSTEKOVÁ, Martina. Multiple use confidence intervals for the statistical calibration problem. In *22nd International Conference on Computational Statistics (COMPSTAT 2016) and the CRoNoS Summer Course and Satellite Workshop on Functional Data Analysis (CRoNoS FDA 2016) : Book of Abstracts*. - COMPSTAT 2016 and COST Action IC1408 CRoNoS FDA 2016, 2016, p. 41.
- GII16 CHVOSTEKOVÁ, Martina. Multivariate calibration and multiple use confidence regions. In *Olomoucian Days of Applied Mathematics (ODAM 2017) : Book of Abstracts*. - Olomouc, Czech Republic : Palacký University in Olomouc, 2017, p. 17.
- GII17 CHVOSTEKOVÁ, Martina. Štatistická kalibrácia a tolerančné oblasti. In *ROBUST 2016 : Sborník abstraktů*. - Praha, ČR : JČMF, 2016, s. 9.
- GII18 CHVOSTEKOVÁ, Martina. Testing linear Granger causality. In *Workshop on Characterizing Interactions in Complex Systems : Book of Abstracts*. - Prague, Czech Republic : Czech Academy of Sciences, 2019, p. 5.
- GII19 CHVOSTEKOVÁ, Martina. Viacnásobne použiteľné oblasti spoľahlivosti pre viacrozmernú kalibráciu. In *ROBUST 2018 : Sborník abstraktů*. - Praha, ČR : JČMF, 2018, p. 7.
- GII20 JAKUBÍK, Jozef. Nelineárna Grangerova kauzalita pomocou neurónových sietí. In *ROBUST 2018 : Sborník abstraktů*. - Praha, ČR : JČMF, 2018, p. 7.
- GII21 JAKUBÍK, Jozef. Výber regresorov v lineárnych zmiešaných modeloch s malým počtom prediktorov. In *ROBUST 2016 : Sborník abstraktů*. - Praha, ČR : JČMF, 2016, s. 9.
- GII22 KLEMENT, Róbert - HALADEJOVÁ, Katarína - MAJEROVÁ, Melinda - KRAXNER, Jozef - BERNARDO, Enrico - GALUSEK, Dušan. Aluminate glasses: Chemistry, phase composition and luminescence. In *ICACC 2020. 44th International conference & exposition on advanced ceramics and composites, January 26 - 31, 2020, Daytona Beach, Florida, USA : abstract book*. - USA : The American Ceramic Society, 2020, p. 181.
- GII23 KRAKOVSKÁ, Anna. Causal analysis in reconstructed state spaces. In *Workshop on Characterizing Interactions in Complex Systems : Book of Abstracts*. - Prague, Czech Republic : Czech Academy of Sciences, 2019, p. 5.
- GII24 MAJDIŠ, Mojmír. Lineárna kombinácia nezávislých náhodných premenných s lognormálnym rozdelením. In *ROBUST 2016 : Sborník abstraktů*. - Praha, ČR : JČMF, 2016, s. 15.
- GII25 ROSIPAL, Roman - PORUBCOVÁ, N. - CIMROVÁ, Barbora - FARKAŠ, I. Mirror-therapy as a way to start BCI robot-assisted rehabilitation: a single case

longitudinal study of a patient with hemiparesis. In *BCIs: Not Getting Lost in Translation, 7th International BCI Meeting : abstract book*. - Pacific Grove : BCI Society, 2018, p. 112-113.

- GII26 ROŠŤÁKOVÁ, Zuzana - ROSIPAL, Roman. A novel two-step iterative approach for clustering functional data. In *22nd International Conference on Computational Statistics (COMPSTAT 2016) and the CRoNoS Summer Course and Satellite Workshop on Functional Data Analysis (CRoNoS FDA 2016) : Book of Abstracts*. - COMPSTAT 2016 and COST Action IC1408 CRoNoS FDA 2016, 2016, p. 61.
- GII27 ROŠŤÁKOVÁ, Zuzana - ROSIPAL, Roman. Multilevel functional principal components analysis in the case of unbalanced design and small number of subjects. In *Olomoucian Days of Applied Mathematics (ODAM 2017) : Book of Abstracts*. - Olomouc, Czech Republic : Palacký University in Olomouc, 2017, p. 52.
- GII28 ROŠŤÁKOVÁ, Zuzana - ROSIPAL, Roman. Multilevel functional principal component analysis for unbalanced data. In *20th European Young Statisticians Meeting*. - Uppsala, Sweden : Uppsala University, 2017, p. 51-57.
- GII29 ROŠŤÁKOVÁ, Zuzana - ROSIPAL, Roman. The parallel factor analysis and the Tucker model: A simulation study. In *Olomoucian Days of Applied Mathematics (ODAM 2019) : Book of Abstracts*. - Olomouc, Czech Republic : Palacký University in Olomouc, 2019, p. 43.
- GII30 BULIAKOVÁ, Barbora - ŠELC, Michal - BÁBELOVÁ, Andrea - NÉMETHOVÁ, Veronika - RÁZGA, Filip - ZÁVIŠOVÁ, Vlasta - URSÍNYOVÁ, M. - MAŇKA, Ján - GÁBELOVÁ, Alena. Determination of nanoparticle uptake by flow cytometry and atomic absorption spectrometry. In *ICOETOX IBMTOX : abstract book*. - Porto, Portugalsko, 2016, p.50.
- GII31 ŠVEHLÍKOVÁ, Jana - TYŠLER, Milan. Geometrical constraints in noninvasive localization of premature ventricular contractions. In *ICE 2016 : 43rd International Congress on Electrocardiology. Abstract Book*. - International Society of Electrocardiology, 2016, p. 47.
- GII32 TEPLAN, Michal - BAJLA, Ivan - BERETA, Martin. Spontaneous motility of yeast cells as a tool for biological electromagnetic effect assessment. In *The Joint Annual Meeting of the Bioelectromagnetics Society and the European BioElectromagnetics Association (BioEM 2019)*. - The Bioelectromagnetics Society, 2019, p. 319-320.
- GII33 TYŠLER, Milan - PUNSHCHYKOVA, O. - ŠVEHLÍKOVÁ, Jana - OSMANČÍK, P. - ŽDÁRSKÁ, J. - KNEPPO, P. Noninvasive localization of ectopic ventricular activity using homogeneous and inhomogeneous torso models. In *ICE 2016 : 43rd International Congress on Electrocardiology. Abstract Book*. - International Society of Electrocardiology, 2016, p. 49.
- GII34 WIMMER, Gejza - WITKOVSKÝ, Viktor. Confidence regions for parameters in two-dimensional linear comparative calibration model. In *MathMet 2019 : Book of Abstracts*. - Lisbon, Portugal : LNEC – National Laboratory for Civil Engineering, 2019, p. 46.

- GII35 WIMMER, Gejza - WITKOVSKÝ, Viktor. Revisited S4 from EA-4/02 (Calibration of a gauge block of nominal length 50 mm). In *Mathematics, Statistics and Computation to Support Measurement Quality (MSCSMQ 2018) : Book of Abstracts*. - St. Petersburg, Russia : Mendeleyev Institute for Metrology, 2018, p. 152-153.
- GII36 WITKOVSKÝ, Viktor. A Note on computing the exact distribution of selected multivariate test criteria. In *ROBUST 2018 : Sborník abstraktů*. - Praha, ČR : JČMF, 2018, p. 19.
- GII37 WITKOVSKÝ, Viktor. Application of the least squares method for the calibration problem by using the characteristic functions approach. In *Mathematics, Statistics and Computation to Support Measurement Quality (MSCSMQ 2018) : Book of Abstracts*. - St. Petersburg, Russia : Mendeleyev Institute for Metrology, 2018, p. 74-75.
- GII38 WITKOVSKÝ, Viktor. Computing the exact statistical distributions of selected multivariate test statistics. In *LinStat 2018 : International Conference on Trends and Perspectives in Linear Statistical Inference. Book of Abstracts*. - Poznań, Poland : Bogucki Wydawnictwo Naukowe, 2018, p. 149-150.
- GII39 WITKOVSKÝ, Viktor. Computing the exact distribution of selected test statistics in multivariate analysis. In *International Conference on Multivariate and Mixed Linear Models and Big Data Analytics & Applications Symposium (MMLM 2019) : Book of Abstracts*. - Poznań, Poland : Poznań University of Life Sciences, 2019, p. 52.
- GII40 WITKOVSKÝ, Viktor. Development of the characteristic functions toolbox for MATLAB. In *Model-Oriented Data Analysis and Optimum Design (mODa 12) : International Workshop. Abstracts*. - Bratislava, Slovakia : Faculty of Mathematics, Physics and Informatics, Comenius University in Bratislava, 2019, p. 56.
- GII41 WITKOVSKÝ, Viktor - WIMMER, Gejza. On inverse and direct prediction in polynomial comparative calibration. In *MathMet 2019 : Book of Abstracts*. - Lisbon, Portugal : LNEC – National Laboratory for Civil Engineering, 2019, p. 47.
- GII42 WITKOVSKÝ, Viktor. On statistical inference based on numerical inversion of the empirical characteristic function. In *Third Conference of the International Society for Non-Parametric Statistics (ISNPS) : Book of Abstracts*. - ISNPS, 2016, p. 97.
- GII43 WITKOVSKÝ, Viktor. Vybrané metódy a aplikácie štatistickej inferencie založené na numerickej inverzii charakteristickej funkcie. In *ROBUST 2016 : Sborník abstraktů*. - Praha, ČR : JČMF, 2016, s. 26.