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**STROJNÍCKA FAKULTA**

**Katedra biomedicínskeho inžinierstva a merania**



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**doc. Ing. Radovan HUDÁK, PhD.**

**Košice 2019**

**Technická univerzita v Košiciach**  
**Prehľad citačných ohlasov**  
**Autor: HUDÁK, Radovan**  
**Rok vydania od: 2012**

**Citácie - ohlasy:**

- [1] Citácie, resp. recenzie v zahraničných publikáciách, registrované v citačných indexoch (WoS, Scopus) - **55**  
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**AAA - Vedecké monografie vydané v zahraničných vydavateľstvách**

AAA001 [134829] **Methodology, Models and Algorithms in Thermographic Diagnosis** Topics in Intelligent Engineering and Informatics 5/ Jozef Živčák ... [et al.] - [1. vyd.] - Berlin Heidelberg : Springer-Verlag - 2013. - 218 p.. - ISBN 978-3-642-38378-6.  
[ŽIVČÁK, Jozef (35%) - MADARÁSZ, L. (20%) - HUDÁK, Radovan (35%) - RUDAS, Imre J. (10%)]

**Ohlasy:**

1. 2014 [2] GLODOVÁ, I., BOCKO, J. Evaluating the precision of contactless measurement using computer tomography In: SAMI 2014: 12th International Symposium on Applied Machine Intelligence and Informatics: Herľany, January 23-25, 2014 S. 311-314 ISBN: 978-147993442-3

**AAB - Vedecké monografie vydané v domácich vydavateľstvách**

AAB002 [155304] **Procesy degradácie v implantológii** / Jozef Živčák ... [et al.] - 1. vyd. - Prešov: ManaCON - 2014. - 137 s.. - ISBN 978-80-89040-41-4.  
[ŽIVČÁK, Jozef (25%) - SIDUN, Jaroslaw (25%) - DABROWSKY, Jan Ryszard (25%) - HUDÁK, Radovan (25%)]

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1. 2018 [4] TREBUŇOVÁ, Marianna - ŠROMOVSKÁ, Katarína Assessment of Biocompatibility of Materials for Implantology on the Protein Level In: Acta Mechanica Slovaca Roč. 22, č. 1 (2018), s. 34-39 ISSN: 1335-2393

**ABC - Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách**

ABC002 [178019] **Magnetically Bistable Microwires: Properties and Applications for Magnetic Field, Temperature, and Stress Sensing** / Rastislav Varga ... [et al.] - 2017. In: High Performance Soft Magnetic Materials. - Cham : Springer, 2017 Vol. 252 (2017), p. 169-212. - ISBN 978-3-319-49705-1 - ISSN 0933-033X  
[VARGA, Rastislav (7%) - KLEIN, Peter (16%) - SABOL, Rudolf (7%) - RICHTER, Kornel (7%) - HUDÁK, Radovan (7%) - POLÁČEK, Irenej (7%) - PRASLIČKA, Dušan (7%) - ŠMELKO, Miroslav (7%) - HUDÁK, Jozef (7%) - MIKITA, Ivan (7%) - BADINI-CONFALONIERI, Giovanni Andrea (7%) - EL KAMMOUNI, Rhimou (7%) - VÁZQUEZ, Manuel (7%)]

**Ohlasy:**

1. 2017 [3] LIPOVSKÝ, Pavol Magnetic sensor based on magnetic microwires for application on-board UAV In: Bezpečnosť a doprava : Teória a prax v bezpečnosti a krízovom riadení v doprave : Hradec Králové, 14.-15. december 2017 P. 11-21 ISBN: 978-80-7204-976-9
2. 2018 [1] CALLE, Esther et al. Time-resolved velocity of a domain wall in a magnetic microwire In: Journal of Alloys and Compounds Vol. 767 (2018), p. 106-111 ISSN: 0925-8388

### ADC - Vedecké práce v zahraničných karentovaných časopisoch

ADC001 [147460] **Effect of the fixation patterns on magnetic characteristics of amorphous glass-coated sensoric microwires** / Radovan Hudák ... [et al.] - 2014. In: Acta Physica Polonica A : proceedings of the 15th Czech and Slovak conference on Magnetism : Košice, June 17-21, 2013. Vol. 126, no. 1 (2014), p. 417-418. - ISSN 0587-4246 Spôsob prístupu: <http://przyrbwn.icm.edu.pl/APP/apphome.html>.

[HUDÁK, Radovan (16%) - VARGA, Rastislav (14%) - HUDÁK, Jozef (14%) - PRASLIČKA, Dušan (14%) - BLAŽEK, Josef (14%) - POLÁČEK, Irenaj (14%) - KLEIN, Peter (14%)]

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1. 2019 [4] PEKARČIKOVÁ, Miriam - TREBUŇA, Peter - KLIMENT, Marek Digitalization effects on the usability of lean tools In: Acta Logistica Roč. 6, č. 1 (2019), s. 9-13 ISSN: 1339-5629

ADC002 [157151] **Influence of Fixation on Magnetic Properties of Glass-Coated Magnetic Microwires for Biomedical Applications** / Radovan Hudák ... [et al.] - 2015. In: IEEE Transactions on Magnetics. Vol. 51, no. 1 (2015), p. 104-104. - ISSN 0018-9464 Spôsob prístupu: <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7029216>.

[HUDÁK, Radovan (25%) - VARGA, Rastislav (10%) - HUDÁK, Jozef (5%) - PRASLIČKA, Dušan (10%) - POLÁČEK, Irenaj (25%) - KLEIN, Peter (10%) - EL KAMMOUNI, Rhimou (10%) - VAZQUEZ, Manuel (5%)]

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1. 2016 [1] WAN, Wenfeng et al. Surface defect detection of magnetic microwires by miniature rotatable robot inside SEM In: AIP Advances Vol. 6, no. 9 (2016), art. no. 095309 ISSN: 2158-3226
2. 2017 [1] RODIONIVA, V. et al. The stress components effect on the Fe-based microwires magnetostatic and magnetostrictive properties In: Journal of Magnetism and Magnetic Materials Vol. 422 (2017), p. 216-220 ISSN: 0304-8853
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4. 2017 [1] KURLYANDSKAYA, G.V. et al. Magnetoimpedance sensitive elements based on CuBe/FeCoNi electroplated wires in single and double wire configurations In: IEEE Transactions on Magnetics Vol. 53, no. 4 (2017), art. no. 7604104 ISSN: 0018-9464
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6. 2018 [1] LI, X. et al. Magnetoimpedance effect in FINEMET/Ni80Fe20 composite ribbons In: Journal of Alloys and Compounds Vol. 730 (2018), p. 17-22 ISSN: 0925-8388
7. 2019 [4] PANDA, Anton et al. Modelling of the structure and the required level of performance properties of a polytetrafluoethylene composites for sealing In: Acta Simulatio Roč. 5, č. 1 (2019), s. 1-7 ISSN: 1339-9640

ADC003 [165784] **Addition of molybdenum into amorphous glass-coated microwires usable as temperature sensors in biomedical applications** / Radovan Hudák ... [et al.] - 2016. In: Physica Status Solidi (a). Vol. 213, no. 2 (2016), p. 377-386. - ISSN 1862-6300 Spôsob prístupu: <http://onlinelibrary.wiley.com/doi/10.1002/pssa.201532574/abstract>.

[HUDÁK, Radovan (20%) - VARGA, Rastislav (15%) - POLÁČEK, Irenaj (15%) - KLEIN, Peter (15%) - ŠKORVÁNEK, Ivan (10%) - KOMANICKÝ, Vladimír (10%) - PEREZ DEL REAL, Rafael (10%) - VAZQUEZ, Manuel (5%)]

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1. 2015 [2] SULLA, Igor et al. Utilizing magnetic microwires for sensing in biological applications In: Journal of Electrical Engineering Roč. 66, č. 7 (2015), s. 161-163

ISSN: 1335-3632

- 2017 [1] PRASLICKA, D. et al. Estimation of Multichannel Magnetometer Noise Floor in Ordinary Laboratory Conditions In: Acta Physica Polonica A Vol. 131, no. 4 (2017), p. 1123-1125 ISSN: 0587-4246

ADC004 [172526] **Direct metal laser sintering of Ti6Al4V for biomedical applications: Microstructure, corrosion properties, and mechanical treatment of implants** / Janette Brezinová ... [et al.] - 2016. In: Metals. Vol. 6, no. 7 (2016), p. 1-16. - ISSN 2075-4701 [BREZINOVÁ, Janette (20%) - HUDÁK, Radovan (15%) - GUZANOVÁ, Anna (20%) - DRAGANOVSKÁ, Dagmar (20%) - IŽARÍKOVÁ, Gabriela (20%) - KONCZ, Juraj (5%)]

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- 2017 [2] KAJANEK, Daniel et al. Electrochemical impedance spectroscopy characterization of ZW3 magnesium alloy coated by DCPD using LASV deposition technique In: Acta Metallurgica Slovaca Roč. 23, č. 2 (2017), s. 147-154 ISSN: 1335-1532
- 2018 [1] HARUN, W.S.W. et al. A review of powdered additive manufacturing techniques for Ti-6al-4v biomedical applications In: Powder Technology Vol. 331 (2018), p. 74-97 ISSN: 0032-5910
- 2017 [1] KUBÍČEK, J. et al. Modeling of blood perfusion in dependence of scanning angle from LDPI data In: BIODEVICES 2017: 10th International Conference on Biomedical Electronics and Devices : Porto, 21-23 Februar, 2017 P. 110-117 ISBN: 978-989758216-5
- 2019 [1] MIERZEJEWSKA, Z.A., HUDAK, R., SIDUN, J. Mechanical properties and microstructure of DMLS Ti6Al4V alloy dedicated to biomedical applications In: Materials Vol. 12, no. 1 (2019) ISSN: 19961944

ADC005 [174128] **FEA simulation of thermal processes during the direct metal laser sintering of Ti64 titanium powder** / J. Živčák, M. Šarik, R. Hudák - 2016. In: Measurement. Vol. 94 (2016), p. 893-901. - ISSN 0263-2241 [ŽIVČÁK, Jozef (60%) - ŠARIK, Martin (5%) - HUDÁK, Radovan (35%)]

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- 2018 [1] HARUN, W.S.W. et al. A review of powdered additive manufacturing techniques for Ti-6al-4v biomedical applications In: Powder Technology Vol. 331 (2018), p. 74-97 ISSN: 0032-5910
- 2017 [1] FATEMI, S. et al. Experimental investigation of process parameters on layer thickness and density in direct metal laser sintering: a response surface methodology approach In: Virtual and Physical Prototyping Vol. 12, no. 2 (2017), p. 133-140 ISSN: 1745-2759
- 2019 [4] TAUŠ, Peter et al. Consumption profile as a base for designing res using simulation tools In: Acta Technologia Roč. 5, č. 1 (2019), s. 11-15 ISSN: 2453-675X

ADC006 [180273] **Nanocrystalline magnetic glass-coated microwires using the effect of superparamagnetism are usable as temperature sensors in biomedical applications** / Radovan Hudák ... [et al.] - 2017. In: IEEE Transactions on Magnetics. Vol. 53, no. 4 (2017), p. 1-6. - ISSN 1941-0069 Spôsob prístupu: <http://ieeexplore.ieee.org/document/7814333/>. [HUDÁK, Radovan (14%) - POLÁČEK, Irenej (16%) - KLEIN, Peter (14%) - SABOL, Rudolf (14%) - VARGA, Rastislav (14%) - ŽIVČÁK, Jozef (14%) - VÁZQUEZ, Manuel (14%)]

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- 2018 [1] CODESCU, Mirela Maria et al. A study of the ferromagnetic microwires retention in cellulose matrix in the security papers In: Powder Metallurgy And Advanced Materials : RoPMAM 2017 : 5th International Conference on Powder Metallurgy and Advanced Materials : Cluj Napoca, 17-20 September, 2017 Vol.8, (2018), p. 1-10 ISSN: 2474-395X

ADC007 [180795] **Novel Applications of Bistable Magnetic Microwires** / R. Sabol ... [et al.] - 2017.In: Acta Physica Polonica A. Vol. 131, no. 4 (2017), p. 1150-1152. - ISSN 0587-4246 [SABOL, R. (12%) - KLEIN, P. (8%) - RYBA, T. (8%) - HVIZDOŠ, L. (8%) - VARGA, R. (8%) - ROVNÁK, Marián (8%) - SULLA, I. (8%) - MUDROŇOVÁ, D. (8%) - GÁLIK, J. (8%) - POLÁČEK, Irenej (4%) - ŽIVČÁK, Jozef (6%) - HUDÁK, Radovan (14%)]

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ADC008 [182913] **Influence of build orientation, heat treatment, and laser power on the hardness of Ti6Al4V manufactured using the DMLS process** / Anna Guzanová ... [et al.] - 2017.In: Metals. Vol. 7, no. 8 (2017), p. 1-17. - ISSN 2075-4701 Spôsob prístupu: <http://www.mdpi.com/2075-4701/7/8/318>. [GUZANOVÁ, Anna (20%) - IŽARIKOVÁ, Gabriela (20%) - BREZINOVÁ, Janette (15%) - ŽIVČÁK, Jozef (10%) - DRAGANOVSKÁ, Dagmar (15%) - HUDÁK, Radovan (20%)]

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1. 2018 [1] KUBICEK, J. et al. Detection and dynamical tracking of temperature facial distribution caused by alcohol intoxication with using of modified OTSU regional segmentation In: Lecture Notes in Computer Sciences: ACIIDS 2018 : 10th International scientific conferences on research and applications in the field of intelligent information and database systems : Dong Hoi City, 19-21 March, 2018 P. 357-366 ISBN: 978-331975419-2
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3. 2017 [4] KELEMEN, Michal et al. Guitar playing robot In: Acta Mechanica Slovaca Roč. 21, č. 4 (2017), s. 10-15 ISSN: 1335-2393
4. 2018 [1] KUBICEK, J. et al. Analysis and modelling of heel bone fracture with using of active contour driven by Gaussian energy and features extraction In: Lecture Notes in Computer Science volume 10752 : ACIIDS 2018 : 10th International Scientific Conference on Research and Applications in the field of intelligent Information and Database Systems : Dong Hoi City, 19-21 March, 2018 P. 405-414 ISBN: 978-331975419-2
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7. 2018 [4] MAJERNÍK, Jaroslav - DZIAKOVÁ, Miriam Effects of Single Whole-Body Vibration Training Unit in Elderly and Child Patients with Neurological Disorders In: Acta Mechanica Slovaca Roč. 22, č. 1 (2018), s. 46-52 ISSN: 1335-2393
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ADC010 [191309] **Implantation of a 3D-printed titanium sternum in a patient with a sternal tumor** / Anton Dzian ... [et al.] - 2018.In: World Journal of Surgical Oncology. Vol. 16 (2018), p. 1-4. - ISSN 1477-7819

Spôsob prístupu: [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5769524/#\\_ffn\\_sectitle](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5769524/#_ffn_sectitle).

[DZIAN, Anton (45%) - ŽIVČÁK, Jozef (25%) - PENCIAK, Rastislav (5%) - HUDÁK, Radovan (25%)]

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[FINDRIK BALOGOVÁ, Alena (20%) - HUDÁK, Radovan (20%) - TÓTH, Teodor (10%) - SCHNITZER, Marek (10%) - FERANC, Jozef (10%) - BAKOŠ, Dušan (10%) - ŽIVČÁK, Jozef (20%)]

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[PAL, Snehashis (20%) - GUBELJAK, N. (5%) - HUDÁK, Radovan (20%) - LOJEN, G. (5%) - RAJTÚKOVÁ, Viktória (20%) - PREDAN, J. (5%) - KOKOL, Vanja (5%) - DRSTVENSEK, Igor (20%)]

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**ADM - Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**

ADM001 [134912] **Material and thermal analysis of laser sintered products** / Radovan Hudák ... [et al.] - 2013. In: Acta Mechanica et Automatica. Vol. 7, no. 1 (2013), p. 15-19. - ISSN 1898-4088 [HUDÁK, Radovan (23%) - ŠARIK, Martin (23%) - DADEJ, Róbert (23%) - ŽIVČÁK, Jozef (23%) - HARACHOVÁ, Daniela (8%)]

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ADM002 [163522] **Automatization of contact pressure measurement between trunk orthosis and patient's body using a matrix tactile sensor** / Radovan Hudák, Viktória Rajtúková, Jozef Živčák - 2015. In: Acta Mechanica et Automatica. Vol. 9, no. 1 (2015), p. 38-43. - ISSN 1898-4088 Spôsob prístupu: <http://www.degruyter.com/view/j/ama.2015.9.issue-1/ama-2015-0008/ama-2015-0008.xml>.

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[FEDORIKOVÁ, Alica (30%) - HUDÁK, Radovan (10%) - ŽIVČÁK, Jozef (10%) - BIDULSKÝ, Róbert (10%) - PETROUŠEK, Patrik (10%) - BIDULSKÁ, Jana (10%) - KOČIŠKO, Róbert (10%) - RAJTÚKOVÁ, Viktória (10%)]

**Ohlasy:**

1. 2018 [1] HARUN, W.S.W. et al. A review of powdered additive manufacturing techniques for Ti-6Al-4V biomedical applications In: Powder Technology Vol. 331 (2018), p. 74-97 ISSN: 0032-5910
2. 2017 [2] MANFREDI, Diego - BIDULSKÝ, Róbert Laser powder bed fusion of aluminum alloys In: Acta Metallurgica Slovaca Vol. 23, no. 3 (2017), p. 276-282 ISSN: 1335-1532
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ADM004 [182773] **The manufacturing precision of dental crowns by two different methods is comparable** / Viktória Rajtúková ... [et al.] - 2016.In: Lékař a Technika. Vol. 46, no. 4 (2016), p. 102-106. - ISSN 0301-5491

[RAJŤUKOVÁ, Viktória (20%) - POLÁČEK, Irenaj (10%) - TÓTH, Teodor (10%) - ŽIVČÁK, Jozef (10%) - IŽARÍKOVÁ, Gabriela (10%) - KOVAČEVIČ, Mila (10%) - SOMOŠ, Andrej (10%) - HUDÁK, Radovan (20%)]

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