

## **2016**

### **Monografie:**

1. **G. Cempura, A. Gruszczyński, A. Czyrska-Filemonowicz** (red.) – *Proceedings of the 5<sup>th</sup> Stanisław Gorczyca European School on Electron Microscopy and Electron Tomography*, Kraków, 5-8.07.2016, Wydawnictwo Naukowe Akapit, ISBN 978-83-63663-81-0, Kraków 2016, s. 1-405

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1. **B. Rutkowski, A. Gil, A. Czyrska-Filemonowicz** - *Microstructure and chemical composition of the scale formed on Sanicro 25 steel tubes after fireside corrosion*, Corrosion Science, 102(2016)373-383; JCR; DOI: 10.1016/j.corsci.2015.10.030
2. **Kruk, G. Cempura, S. Lech, A. Czyrska-Filemonowicz** - *STEM-EDX and FIB-SEM tomography of Allvac 718Plus superalloy*, Archives of Metallurgy and Materials Science 61(2016)535-542; JCR
3. P. Mengucci, G. Barucca, A. Gatto, E. Bassoli, L. Denti, F. Fiori, E. Girardin, P. Bastianoni, **B. Rutkowski, A. Czyrska-Filemonowicz** - *Effects of thermal treatments on microstructure and mechanical properties of a Co-Cr-Mo-W biomedical alloy produced by laser sintering*, Journal of the Mechanical Behavior of Biomedical Materials; 60(2016)106-117; JCR
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8. M. Oezaslan, W. Liu, M. Nachtegaal, A.I. Frenkel, **B. Rutkowski**, M. Werheid, A.-K. Herrmann, C. L. Bonnaud, H. C. Yilmaz, N. Gaponik, **A. Czyrska-Filemonowicz**, A. Eychmüller, T. J. Schmidt – *Homogeneity and Chemical Distribution of Self-Assembled Bimetallic Pd-Pt Aerogels prepared by a spontaneously one-step gelation process*, Physical Chemistry Chemical Physics, 18(2016)20640-20650; JCR, DOI: 10.1039/C6CP03527B
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10. T. Moench, P. Friederich, F. Holzmueller, **B. Rutkowski**, J. Benduhn, T. Strunk, Ch. Koerner, K. Vandewal, **A. Czyrska-Filemonowicz**, W. Wenzel, K. Leo – *Influence of Meso- and Nanoscale Structure on the Properties of Highly Efficient Small Molecule Solar Cells*, Advanced Energy Materials; 6(2016)1-10; JCR, DOI 10.1002/aenm.201501280
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12. F. Mao, M. Taher, **O. Kryshnal**, **A. Kruk**, **A. Czyrska-Filemonowicz**, M. Ottosson, A.M. Andersson, U. Wiklund, U. Jansson - *A combinatorial study of gradient Ag-Al thin films: microstructure, phase formation, mechanical and electrical properties*, ACS Applied Materials & Interfaces, 8(44)(2016)330635-330643; JCR; DOI: 10.1021/acsami.6b10659
13. F. Muhaffel, **G. Cempura**, M. Menekse, **A. Czyrska-Filemonowicz**, N. Karaguler, H. Cimenoglu - *Characteristics of multi-layer coatings synthesized on Ti6Al4V alloy by micro-arc oxidation in silver nitrate added electrolytes*, Surface and Coatings Technology, 307, Part A (2016)308–315; JCR; DOI: 10.1016/j.surfcoat.2016.09.002
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15. T. Gancarz, **G. Cempura**, W. Skuza - *Characterization of ZnAl cast alloys with Na addition*, Materials Characterization, 111 (2016)147–153; JCR; DOI: 10.1007/j.matchar.2015.11.025
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2. **G. Cempura, B. Rutkowski, J. Jelita Rydel, K. Cieszyński, A. Czyrska-Filemonowicz** – *Microstructural evolution of HR6W alloy during ageing at high temperatures*, Inżynieria Materiałowa, 5(213) (2016)167-171
3. **O. Dziuba, A. Kruk, G. Michta** – *Microstructural characterization and mechanical properties of electron beam welded Allvac718 butt welded joint*, Inżynieria Materiałowa, 6(214) (2016)150-154
4. **B. Rutkowski, A. Gil, W. Ratuszek, B. Woźnik, A. Czyrska-Filemonowicz** – *The microstructure of Sanicro25 steel after steam oxidation studied by advanced electron microscopy and spectroscopy techniques*, Inżynieria Materiałowa, 5(213) (2016)201-205
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1. **A. Kruk, A. Czyrska-Filemonowicz** - *The 3D imaging and metrology of microstructural elements in innovative materials for clean energy systems and aeronautics*, 9<sup>th</sup> International conference on Processing and Manufacturing of Advanced Materials, THERMEC'2016, 29.05-03.06.2016, Graz, Austria; Book of Abstracts, Graz University of Technology, Medienfabrik Graz 2016, s. 316-317 (poszerzony abstrakt)
2. **B. Rutkowski, A. Gil, W. Ratuszek, A. Czyrska-Filemonowicz** - *The microstructure of Sanicro25 steel after steam oxidation studied by advanced electron microscopy and spectroscopy techniques*. XXI conference on Advanced Materials and Technologies, AMT'2016, 5-8.06.2016, Rawa Mazowiecka, abstrakt nr CO8
3. **S. Lech, K. Kulawik, A. Kruk, A. Czyrska-Filemonowicz** - *Characterisation of phases strengthening Incoloy 718 and Allvac 718Plus superalloys*, j.w., abstrakt nr DP7
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5. **O. Dziuba, A. Kruk, G. Michta** - *Microstructural characterization and mechanical properties of electron beam welded Allvac718 butt welded joint*, j.w., abstrakt EP4
6. **A. Kruk, A. Czyrska-Filemonowicz** – *Application of different imaging techniques for characterisation and visualisation of micro-and nanostructural elements in 718Plus superalloy*, Proc. European Microscopy Congress EMC'2016, 28.08-2.09.2016, Lyon; O. Stephan, M. Hytch, T. Epicier (red.), Wiley-VCH Verlag, Vol. 2.2, 2016, s. 882-883
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10. **U. Stachewicz, P. Szewczyk, A. Kruk, A. H. Barber, A. Czyrska-Filemonowicz** - *3D imaging via FIB-SEM tomography at nanoscale for tissue engineering applications*, Proc.

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15. **J. Karbowniczek, A. Gruszczyński, A. Kruk, A. Czyrska-Filemonowicz** - *Visualization of the interface between cells and ceramic coating surface by electron microscopy and tomography techniques*, j.w., s. 49
16. **J. Karbowniczek, S. Metwally, G. Cempura, A. Czyrska-Filemonowicz** - *Functional coatings deposited on titanium alloy by micro-arc oxidation for improved bone-implant integration*, E-MRS Fall Meeting, Special session: Advanced Materials and Technologies for Bone Engineering; Warszawa, 22-23.09.2016 (abstrakt)
17. **U. Stachewicz, P. Szewczyk, A. Kruk, A. H. Barber, A. Czyrska-Filemonowicz** - *3D imaging via FIB-SEM tomography at nanoscale for tissue engineering applications*, j.w.
18. **G. Cempura, A. Gruszczyński, K. Płońska-Niżnik** – *Sample preparation methods (including FIB)- an overview*, Proceedings of the 5<sup>th</sup> Stanisław Gorczyca European School on Electron Microscopy and Electron Tomography, Kraków, 5-8.07.2016, Wydawnictwo Naukowe Akapit, G. Cempura, A. Gruszczyński i A. Czyrska-Filemonowicz (red.), ISBN 978-83-63663-81-0, Kraków 2016, s. 363-375
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20. **A. Kruk, A. Czyrska-Filemonowicz** – *Application of different imaging techniques for characterisation and visualisation of micro-and nanostructural elements in 718Plus superalloy*, j.w., 301-304

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