

2018

Artykuły w czasopismach międzynarodowych, w tym z bazy Journal Citation Report (JCR):

1. **A. Kruk**, A.M. Wusatowska-Sarnek, **M. Ziętara**, K. Jemielniak, Z. Siemiątkowski and **A. Czyrska-Filemonowicz** - *Characterisation on White Etching Layer formed during ceramic milling of Inconel 718*, Metals and Materials International, 24(2018)1036-1045; DOI: 10.1007/s12540-018-0056-0; JCR.
2. **U. Stachewicz**, **P. Szewczyk**, **A. Kruk**, A.H. Barber, **A. Czyrska-Filemonowicz** - *Pore shape and size dependence on cells growth into electrospun fiber scaffolds for tissue engineering: 2D and 3D analyses using SEM and FIB-SEM tomography*, Materials Science and Engineering C, w druku; DOI:10.1016/j.msec.2017.08.076; JCR.
3. **B. Rutkowski**, A. Gil, A. Agüero, V. González, **A. Czyrska-Filemonowicz**- *Microstructure, chemical- and phase composition of Sanicro 25 austenitic steel after oxidation in steam at 700 °C*, Oxidation of Metals 89(2018)183-195; DOI:10.1007/s11085-017-9824-3; JCR.
4. V. Casalegno, S. Kondo, T. Hinoki, M. Ferraris, M. Salvo, **A. Czyrska-Filemonowicz**, T. Moskalewicz, Y. Katoh: *CaO-Al₂O₃ glass-ceramic as joining material for SiC based components: a microstructural study of the effect of Si-ion irradiation*, Journal of Nuclear Materials, 501(2018)172-180; DOI:10.1016/j.jnucmat.2018.01.033; JCR.
5. A.G. Sabato, A. Chrysanthou, M. Salvo, **G. Cempura**, F. Smaecetto - *Interface stability between bare, Mn-Co spinel coated AISI 441 stainless steel and a diopside-based glass-ceramic sealant*, International Journal of Hydrogen Energy, 43(3)(2018)368-375; JCR.
6. D. Teker Aydogan, F. Muhaffel, M. Menekse, O. Karabıyık Acar, **G. Cempura**, **A. Czyrska-Filemonowicz**, M. Baydogan, N. Karaguler, G.Torun Köse, H. Cimenoglu - *Optimization of micro-arc oxidation electrolyte for fabrication of antibacterial coating on titanium*, Materials Technology: Advanced Performance Materials, 33(2018)119-126, DOI: 101080/10667857.2017.1391931; JCR.
7. B. Dubiel, P. Indyka, I. Kalemba-Rec, **A. Kruk**, T. Moskalewicz, A. Radziszewska, S. Kaç, A. Kopia, K. Berent, M. Gajewska - *Examination of chemical elements partitioning between the gamma and gamma' phases in CMSX-4 superalloy using EDS microanalysis and electron tomography*, Journal of Alloys and Compounds, 731 (2018)693-703; JCR.
8. **S. Lech**, A. Gil, **G. Cempura**, A. Agüero, **A. Kruk**, **A. Czyrska-Filemonowicz** - *Microstructure of the oxide scale formed on Allvac 718Plus superalloy during oxidation at*

850 °C in dry air characterised by analytical electron microscopy, International Journal of Materials Research, on-line: 09.07.2018; JCR.

9. **A. Kruk, G. Cempura** - *Application of analytical electron microscopy and FIB/SEM tomographic technique for phase analysis in as-cast Allvac 718Plus superalloy*, International Journal of Materials Research, on-line: 16.06.2018; JCR.
10. S. Molin, A. G. Sabato, H. Javed, **G. Cempura**, A. R. Boccaccini, F. Smeacetto - *Co-deposition of CuO and Mn_{1.5}Co_{1.5}O₄ powders on Crofer22APU by electrophoretic method: structural, compositional modifications and corrosion properties*, Materials Letters, 218(2018)329-333; JCR.
11. S.I. Bogatyrenko, A.A. Minenkov, **A.P. Kryshtal** - *Supercooling under crystallization of Bi-Sn eutectic alloy in contact with Bi, Sn and amorphous C*, Vacuum: Surface Engineering, Surface Instrumentation & Vacuum Technology, 152(2018)1-7; JCR.
12. A.A. Minenkov, S.I. Bogatyrenko, **A.P. Kryshtal** - *Effect of size on phase transformation temperatures in Ge/Bi/Ge films*- Journal of Alloys and Compounds, 756(2018)50-56; JCR.
13. Ł. Rakoczy, **G. Cempura, A. Kruk, A. Czyska-Filemonowicz**, A. Zielińska-Lipiec - *Morphological evolution and X-ray investigation of γ' precipitates in Ni based superalloy during rapid quenching*, International Journal of Materials Research, w druku; JCR.
14. F. Wierońska, P. Burmistrz, A. Strugała, D. Makowska, **S. Lech** - *Effect of using coke dust as a sorbent for removing mercury from flue gases on the contents of selected ecotoxic elements in fly ash*, Energy & Fuels, 32(5)(2018)5693-5700; DOI:10.1021/acs.energyfuels.7b035557; JCR.
15. A. Turk, D. Bombač, J. Jelita Rydel, **M. Ziętara** - *Grain boundary carbides as hydrogen diffusion barrier in a Fe-Ni alloy: A thermal desorption and modelling study*, Materials and Design 160 (2018) 985–998; JCR.
16. **P.K. Szewczyk, J. Knapczyk-Korczak, D.P. Ura, S. Metwally, A. Gruszczyński, U. Stachewicz** - *Biomimicking wetting properties of spider web from *emph {Linothele megatheloides}* with electrospun fibers*, Materials Letters, 233(2018) 211-214; JCR.

Publikacje w materiałach konferencyjnych:

1. **A. Kruk, G. Cempura, S. Lech, A. M. Wusatowska-Sarnek and A. Czyska-Filemonowicz** - *Application of Analytical Electron Microscopy and Tomographic Techniques for Metrology and 3D Imaging of Microstructural Elements in Allvac 718Plus*, Proceedings of the 9th International Symposium on the Superalloy 718 & Derivatives: Energy, Aerospace and Industrial Applications. The Minerals, Metals & Materials Series. Springer, Cham, E. Ott i inni (red.), s. 1035-1050. 3-6.06.2018. Pittsburg, USA. DOI:

2. **S. Lech, A. Kruk, G. Cempura, A. M. Wusatowska-Sarnek and A. Czyrska-Filemonowicz** - *2D and 3D analysis of ATI718Plus superalloy after heat treatment with gradient of temperature*, Eurosuperalloys 2018, 9-13.09.2018, Oxford, UK, w druku (abstrakt).
3. V. Casalegno, M. Ferraris, M. Salvo, T. Moskalewicz, **A. Czyrska-Filemonowicz**, S. Kondo, T. Hinoki, L. Gozzelino, G. Ghigo - *Irradiation stability of SiC-based joints for nuclear applications*, 5th Workshop on TEM with in situ Irradiation (WOTWISI-5), 11-13.04.2018, Huddersfield, UK (abstrakt).
4. A. Gil, **O. Kryshtal**, T. Brylewski, **A. Czyrska-Filemonowicz** - *Microscopic investigations of a Cr₂O₃ scale formed on a substrate with implanted yttrium ions*, European Corrosion Congress, EUROCORR 2018, 9-13.09.2018, Krakow (abstrakt).
5. **G. Cempura**, A. Gil, A. Agüero, M. Gutierrez, **A. Kruk, A. Czyrska-Filemonowicz** - *Microstructure of Sanicro 25 steel after long-term oxidation characterised by advanced microscopy techniques*, European Corrosion Congress, EUROCORR 2018, 9-13.09.2018, Krakow, dokument elektroniczny.
6. **S. Metwally, U. Stachewicz** - *Electrospinning of charged induced fiber scaffolds*, ELECTROSPIN 2018: international conference, 16-18.01.2018, Stellenbosch, Republika Południowej Afryki, s. 44 (abstrakt).
7. **U. Stachewicz** - *Electrospun fibers in 3D – FIB-SEM tomography*, j.w., s. 53 (abstrakt).
8. **P.K. Szewczyk, U. Stachewicz** - *Controlling crystalline phase in electrospun PVDF nanofibers with altering voltage polarity*, j.w., s. 60 (abstrakt).
9. **U. Stachewicz** - *3D imaging of cell interactions with nanofiber based scaffolds*, New frontiers in biomaterials, 9th international workshop on interfaces - book of abstracts, Santiago de Compostela, 16-18.04.2018, s. 43 (abstrakt).
10. B.R. Jany, A. Janas, K. Szajna, **O. Kryshtal, G. Cempura, A. Kruk, A. Czyrska-Filemonowicz**, F. Krok - *Chemically driven growth of gold-rich nanostructures on AlInBV semiconductor surfaces*, 34th European Conference on Surface Science, 26-31.08.2018, Aarhus, Denmark (abstrakt).
11. **S. Metwally, J. Karbowniczek**, M. Marzec, A. Bernasik, **U. Stachewicz** - *Electrospun PCL scaffolds for tissue engineering* AGH-HU joint symposium, Book of abstracts, Wydawnictwo Naukowe Akapit, 14-16.05.2018, AGH Kraków, 2018, s. 44 (abstrakt).
12. **J. Knapczyk**, M. Gajek, M. Marzec, A. Bernasik, **U. Stachewicz** – *Wetting of electrospun fibers for water harvesting*, j.w., s. 90 (abstrakt).

13. Ł. Rakoczy, **B. Rutkowski**, A. Zielińska-Lipiec - *The comprehensive study of carbides morphology in Ni-based superalloy*, j.w., s. 91 (abstrakt).
14. **K. Zawadzka**, E. Godlewska, K. Mars, **A. Czyrska-Filemonowicz** - *Reactive diffusion in skutterudites*, C-MAC Euroschool 2018, 24-29.06.2018, AGH Kraków (abstrakt).
15. A. Gil, **O. Kryshtal**, T. Brylewski, **A. Czyrska-Filemonowicz** - *Growth mechanism of a Cr₂O₃ scale formed on chromium implanted with yttrium*, 18th International Polish-French Conference on Reactivity of Solids, Program and Abstracts, 2-4.07.2018, AGH Kraków, s. 24 (abstrakt).
17. **A.P. Kryshtal**, A.A. Minenkov, S.I. Bogatyrenko - *Melting and crystallization of nanosized Bi films confined between Ge layers*, International conference on Diffusion in Solids and Liquids, 25-29.06.2018, Amsterdam, Netherlands, Abstract book, s. 157 (abstrakt).
18. **A. Kryshtal**, S. Bogatyrenko, A. Minenkov, P. Ferreira - *In Situ Aberration-Corrected STEM of Metal-Induced Crystallization: The Case of the Ag/Ge Couple*, The Twentieth Annual Conference YUCOMAT 2018, 3-7.09.2018, Herceg Novi, Montenegro, s. 84 (abstrakt)
19. **O. Dziuba**, **G. Michta**, **A. Kruk** - *Mikrostruktura i właściwości mechaniczne wybranych obszarów złącza spawanego metodą GTAW wykonanego z nadstopu ALLVAC 718Plus*, XLVI Szkoła Inżynierii Materiałowej, Ryto, 25-28.09.2018, Wydawnictwo Naukowe Akapit, 2018, s. 51-55.
20. **J. Knapczyk**, M. Gajek, **U. Stachewicz** - *Wetting properties and morphology of electrospun fibers from hydrophobic and hydrophilic polymers*, 4th international conference on Biomedical polymers & polymeric biomaterials, Kraków, 15-18.07.2018, Book of abstracts, Wydawnictwo Naukowe Akapit, 2018, s. 203 (abstrakt)
21. **S. Metwally**, **J.E. Karbowniczek**, **A. Gruszczyński**, **P.K. Szewczyk**, **U. Stachewicz** - *PCL fibers' porosity impact on cells attachment and proliferation for tissue engineering*, 4th international conference on Biomedical polymers & polymeric biomaterials, 15-18.08.2018, Kraków, book of abstracts, s. 77 (abstrakt).
22. **P.K. Szewczyk**, **S. Metwally**, **J.E. Karbowniczek**, **A. Gruszczyński**, M.M. Marzec, A. Bernasik, **U. Stachewicz** - *Surface charge controlled cell proliferation on electrospun Polyvinylidene Fluoride fibers*, j.w., s. 114 (abstrakt).