

2019

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

1. **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, 110(2019)3-10; DOI: 10.3 139/146-111678; JCR.
2. **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, 110(2019)42-48, DOI: 10.3 139/146-111675; JCR.
3. **Ł. Rakoczy, G. Cempura, A. Kruk, A. Czyrska-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, 110(2019)66-69; DOI: 10.3 139/146-111729; JCR.
4. **O. Kryshtal, A. Kruk, F. Mao, M. Taher, U. Jansson, A. Czyrska-Filemonowicz** - *Microstructure and phase composition of the Ag-Al film wear track: through-thickness characterization by advanced electron microscopy*, Archive of Metallurgy and Materials, 64(2019)251-256; JCR.
5. **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, 95(2019)397-408, DOI: 10.1016/j.msec.2017.08.076; JCR
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7. **P.K. Szewczyk, J. Knapczyk-Korczak, D.P. Ura, S. Metwally, A. Gruszczyński, U. Stachewicz** – *Biomimicking wetting properties of spider web from *Linothele megatheloides* with electrospun fibers*, Materials Letters, 233(2018) 211–214. DOI: 10.1016/j.matlet.2018.09.007; JCR.
8. **S. Metwally, J.E. Karbowniczek, P.K. Szewczyk, M.M. Marzec, A. Gruszczyński, A. Bernasik, U. Stachewicz** - *Single-step approach to tailor surface chemistry and potential on electrospun PCL fibers for tissue engineering application*, Advanced Materials Interfaces 6(2019)1-12, DOI: 10.1002/admi.201801211; JCR.
9. **P.K. Szewczyk, S. Metwally, J.E. Karbowniczek, M.M. Marzec, E. Stodolak-Zych, A.**

- Gruszczyński, A. Bernasik, U. Stachewicz** - *Surface potential controlled cells proliferation and collagen mineralization on electrospun polyvinylidene fluoride (PVDF) fibers scaffolds for bone regeneration*, ACS Biomaterials Science and Engineering 5(2019)591-593, DOI: 10.1021/acsbiomaterials.8b01108; JCR.
10. G. Viola, F. D'Isanto, V. Koval, **G. Cempura**, H. Yand, F. Smeacetto, M. Salvo - *Orthoenstatite to forsterite phase transformation in magnesium germanate ceramics*, Ceramics International 45(2019)7878-7884; JCR.
 11. D. Wrana, C. Rodenbücher, B.R. Jany, **O. Kryshnal, G. Cempura, A. Kruk**, P. Indyka, K. Szot, F. Krok - *A bottom-up process of self-formation of highly conductive titanium oxide (TiO) nanowires on reduced SrTiO₃*, Nanoscale 11(2019)89, DOI: 10.1039/c8nr04545c; JCR.
 12. **A.P. Kryshnal**, A. Minenkov, S. Bogatyrenko, **A. Gruszczyński** - *Melting process and the size depression of the eutectic temperature in Ag/Ge and Ge/Ag/Ge layered films*, Journal of Alloys and Compounds 786(2019)817-825; JCR.
 13. N.O. Mchedlov-Petrosyan, N.N. Kriklya, **A.P. Kryshnal**, A.A. Ishchenko, M.L. Malysheva, V.V. Tkachenko, A.Yu. Ermolenko, E. Osawa - *The interaction of the colloidal species in diluted hydrosol of nanodiamonds with inorganic and organic electrolytes*, Journal of Molecular Liquids 283(2019), s. 849–859; JCR.
 14. A.A. Ishchenko, N.O. Mchedlov-Petrosyan, N.N. Kriklya, **A.P. Kryshnal**, E. Osawa, A.V. Kulinich - *Interaction of Polymethine Dyes with Detonation Nanodiamonds*, ChemPhysChem 20(2019)1028-1035; JCR.
 15. **G. Cempura**, A. Gil, A. Agüero, M. Gutierrez, **A. Kruk, A. Czyrska-Filemonowicz** - *Microstructural studies of the scale on Sanicro 25 after 25 000 hours of oxidation in steam using advanced electron microscopy techniques*, Surface and Coatings Technology 377(2019) art.no 1249, s.1-10; on-line: 15.08.2019; DOI: 10.1016/j.surfcoat.2019.124901; JCR.
 16. A. Gil, **O. Kryshnal**, T. Brylewski, **A. Czyrska-Filemonowicz** - *Characterisation of a Cr₂O₃ scale formed on chromium with implanted yttrium by advanced electron microscopy*, Surface and Coatings Technology 368(2019)232-242; JCR.
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 18. A. Janas, B. R. Jany, K. Szajna, **A. Kryshnal, G. Cempura, A. Kruk**, F. Krok - *Nanostructure phase and interface engineering via controlled Au self-assembly on GaAs(001) surface*, Applied Surface Science 492(2019)703-710; JCR.
 19. S. Bogatyrenko, **A.P. Kryshnal**, A. Minenkov, **A. Kruk** - *Miscibility gap narrowing on the*

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21. F. Muhaffel, M. Kaba, **G. Cempura**, B. Derin, **A. Kruk**, E. Atar, H. Cimenoglu - *Influence of alumina and zirconia incorporations on the structure and wear resistance of titania-based MAO coatings*, Surface and Coatings Technology 377(2019) art. no. 124900, s.1-11; JCR.
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23. **D.P. Ura, J.E. Karbowniczek, P.K. Szewczyk, S. Metwally**, M. Kopyściański, **U. Stachewicz** - *Cell integration with electrospun PMMA nanofibers, microfibers, ribbons, and films: a microscopy study*, Bioengineering 6(2019)1-12.
24. **P.K. Szewczyk, S. Metwally, Z.J. Krysiak, Ł. Kaniuk, J.E. Karbowniczek, U. Stachewicz** - *Enhanced osteoblasts adhesion and collagen formation on biomimetic polyvinylidene fluoride (PVDF) films for bone regeneration*, Biomedical Materials 14(2019) art. no. 065006, s. 1–8.
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26. **S. Metwally, U. Stachewicz** - *Surface potential and charges impact on cell responses on biomaterials interfaces for medical applications*, Materials Science and Engineering C, Materials for Biological Applications 104(2019), art. no. 109883, s. 1-27; JCR.
27. T. Busolo, **D.P. Ura**, S.K. Kim, M.M. Marzec, A. Bernasik, **U. Stachewicz**, S. Kar-Narayan - *Surface potential tailoring of PMMA fibers by electrospinning for enhanced triboelectric performance*, Nano Energy 57(2019)500–506.
28. **S. Metwally**, S. Martínez Comesaña, M. Zarzyka, **P.K. Szewczyk, J.E. Karbowniczek, U. Stachewicz** - *Thermal insulation design bioinspired by microstructure study of penguin feather and polar bear hair*, Acta Biomaterialia 91(2019)270–283; JCR.
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32. E. Rudnik, **J. Knapczyk-Korcza**k – *Preliminary investigations on hydrometallurgical treatment of spent Li-ion batteries*, Metallurgical Research & Technology 116(2019)1-6.
33. V. Petkov, R. Valov, M. Witkowska, M. Madej, **G. Cempura**, M. Sułowski - *Sintered steels coated with a chromium layer doped with diamond nanoparticles*, Archive of Metallurgy and Materials 64(2019)1633-1638; JCR.
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36. B.R. Jany, A. Janas, W. Piskorz, K. Szajna, **O. Kryshstal**, **G. Cempura**, P. Indyka, **A. Kruk**, **A. Czyrska-Filemonowicz**, F. Krok - *Chemically driven growth of Au-rich nanostructures on AIII-BV semiconductor surfaces*", zgłoszony do RSC Nanoscale; JCR.
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Publikacje w materiałach konferencyjnych:

1. **J. Karbowniczek**, **P. Szewczyk**, **S. Metwally**, **A. Gruszczyński**, **U. Stachewicz** - *2D and 3D electron microscopy imaging in tissue engineering*, Materiały "Microscopy characterization of organic-inorganic interfaces", 7-8.03.2019, Berlin, Niemcy, s. 82.
2. B.R. Jany, A. Janas, W. Piskorz, K. Szajna, **A. Kryshstal**, **G. Cempura**, P. Indyka, **A. Kruk**, **A. Czyrska-Filemonowicz**, F. Krok - *Characterization of Gold rich Nanostructures on AIII-BV Semiconductor Surfaces by Electron Microscopy and Machine Learning Techniques*, MC'2019: Microscopy Conference, 1-5.09.2019, Berlin, Niemcy, s. 303-304.
3. B.R. Jany, A. Janas, W. Piskorz, K. Szajna, **A. Kryshstal**, **G. Cempura**, P. Indyka, **A. Kruk**, **A. Czyrska-Filemonowicz**, F. Krok - *Chemical and structural imaging of gold-*

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4. **S. Lech, A. Kruk, G. Cempura, A. Gruszczyński, A. Gil, A. Agüero, A.M. Wusatowska-Sarnek, A. Czyrska-Filemonowicz** - *Influence of high temperature exposure on the microstructure of Allvac 718Plus superalloy Studied by Novel Electron Microscopy and Tomography Techniques*, AMT2019: Advanced Materials and Technologies: XXII Physical Metallurgy and Materials Science Conference, 9-12.06.2019, Bukowina Tatrzańska, Poland: programme & abstracts, 2019, s. 94-95.
5. **O. Dziuba, A.M. Wusatowska-Sarnek, A. Kruk** - *Influence of isothermal holding on the microstructure and mechanical properties of EBW dissimilar Inconel 718/Allvac718Plus welded joint*, j.w., s. 49-50.
6. **J. Knapczyk-Korczak, D. P. Ura, J. P. Chiverton, U. Stachewicz** - *Collecting water in electrospun polymer fiber composites*, j.w., s. 72–73.
7. **W. Osuch, G. Michta, R. Błoniarczyk, I. Suliga** - *Evolution of the dislocation structure of iron meteorite*, j.w., s. 327.
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9. **Z. Krysiak, U. Stachewicz** - *Biocompatibility and cell culture study on electrospun PVB patches for skin treatment*; Proceedings of the ESB 2019 annual conference of the European Society for Biomaterials, 9–13.09.2019, Dresden, Niemcy, s. 1197–1198.
10. **D. P. Ura, A. Gradyś, A. Zaszczynska, P. Sajkiewicz, U. Stachewicz** - *Controlling of mechanical properties of electrospun PMMA fibers via voltage polarity*; Proceedings of II European summer school on Materials science, 28-30.08.2019, Dresden, Niemcy, M. Bieda (red.), Institute of Metallurgy and Materials Science of the Polish Academy of Sciences, 2019. s. 64–67.
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13. **A. P. Kryshnal**, S.I. Bogatyrenko - *In situ aberration-corrected STEM studies of metal-induced crystallization of amorphous semiconductor films*; NANO-2019: International research and practice conference "Nanotechnology and Nanomaterials", 27–30.08. 2019, Lviv, Ukraina, s. 373.

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19. **K. Zawadzka**, M. Dudek, E. Mars, E. Godlewska - *Fluoride oxide coatings for Mg-2Si protection*, International thermoelectric workshop on new materials for direct conversion of heat into electricity: abstracts, K. Wojciechowski (red.). AGH Kraków, 2019, s. 94.