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Employment and Positions

Institute of Metallurgy and Materials Science PAS: metallurgist (since 2014), master (since 2015), assistant professor (since 2017).

Scientific career

MSc Jagiellonian University, Faculties of Chemistry and Physics, Astronomy and Applied Computer Science, 2010

PhD Institute of Metallurgy and Materials Science PAS, 2014,

Scientific achievements

1.

D. Kalisz, S. Gerasin, **P. Bobrowski**, P. Żak, T. Skowronek: Computer simulation of microsegregation of sulphur and manganese and formation of MnS inclusions while casting rail steel, Archives of Metallurgy and Materials 61 (2016), 1939-1944.

2.

P. Bobrowski, M. Faryna, K. Głowiński: Evaluation of grain boundary plane distribution in yttria stabilized polycrystalline zirconia based on 3D EBSD analysis, Materials Characterization 122 (2016) 137-141.

3.

W. Skuza, H. Paul, K. Berent, M. Prażmowski, **P. Bobrowski**: Microstructure and mechanical properties of Ti/Cu clads manufactured by explosive bonding at different stand-off distances, Key Engineering Materials 716 (2016), 464-471.

4.

Ł. Rogal, J.T. Bonarski, **P. Bobrowski**: Effect of Tempering and Strain on Decomposition of Metastable Austenite in X210CrW12 Thixo-Cast Steel, Journal of Materials Engineering and Performance 25 (2016), 845-852.

5.

T. Gancarz, **P. Bobrowski**, J. Pstruś, S. Pawlak: Thermal and mechanical properties of lead-free SnZn-xNa casting alloys, and interfacial chemistry on Cu substrates during the soldering process, Journal of Alloys and Compounds 679 (2016), 442-453.

6.

M. Faryna, **P. Bobrowski**, Z. Pędzich, M. Bućko: Correlation between microstructure and ionic conductivity in cubic zirconia polycrystals, Materials Letters 161, 352-354, 2015.

7.

P. Bobrowski, Z. Pędzich, M. Faryna: Three-dimensional microstructural characterization of porous cubic zirconia, *Micron* 78, 73-78, 2015.

8.

J. Dutkiewicz, P. Ozga, W. Maziarz, J. Pstruś, B. Kania, **P. Bobrowski**, J. Stolarska: Microstructure and properties of bulk copper matrix composites strengthened with various kinds of graphene nanoplatelets, *Materials Science & Engineering A* 628, 124-134, 2015.

9.

P. Bobrowski, M. Faryna, Z. Pędzich: Investigation of grain boundary geometry and pores morphology in dense and porous cubic zirconia polycrystals, *Materials Research Bulletin* 57, 203-209, 2014.

10.

P. Bobrowski, M. Faryna, A. Bigos, M. Homa, A. Sypień, M. Bieda: Three-dimensional investigations of finely grained materials, *Archives of Metallurgy and Materials* 59, 1319-1325, 2014.

Research projects

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NCN grant: 2015/19/D/ST8/00823, leader

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NCN grant: DEC-2012/05/B/ST8/00117, employee

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NCBiR grant: "Cergraf", GRAF-TECH/NCBR/03/05/2012, employee

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NCBiR grant: "Gonar", INNOTECH-K2/IN2/20/181971/NCBR/13, employee

Experience gained abroad

10.2009-02.2010: University Erlangen-Nuernberg in Germany: investigations on the catalytic model system Au/TiO₂ using the XPS technique

Scientific interest

plastic deformation of metals, strength testing of materials, application of the EBSD technique to microstructure characterization, development of the 3D-EBSD technique