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## **Employment and positions**

Institute of Metallurgy and Materials Science, Polish Academy of Sciences: assistant professor (since 2008)

## **Scientific Career**

**M.Sc.:** AGH – University of Science and Technology, Faculty of Non-Ferrous Metals, 2002

**Ph.D.:** AGH – University of Science and Technology, Faculty of Non-Ferrous Metals, 2007

## **Scientific achievements**

A total of 19 publications in national and international journals, also 12 reports in the conference

The most important publications during last 5 years:

1.

Rogal Ł., Kalita D., **Tarasek A.**, Bobrowski P., Czerwinski F.: „Effect of SiC nano-particles on microstructure and mechanical properties of the CoCrFeMnNi high entropy alloy”, Journal of Alloy and Compounds, 2017, vo. 708, p. 344-352

2.

Wołczyński W., **Tarasek A.**, Sypień A., Bydałek A.W.: „Copper droplets agglomeration / coagulation in the conditions similar to industrial ones”, Archives of Metallurgy and Materials, 2017, vol. 62, No. 1, p. 307-314

3.

Pawełek A., Piątkowski A., Wajda W., Skuza W., **Tarasek A.**, Ranachowski Z., Ranachowski P., Ozgowicz W., Kudela S. Jr., Kudela S.: „Plastic instabilities included by the Portevin-Le Chatelier effect and fracture character of deformed Mg-Li alloys investigated using the acoustic emission method”, Archives of Metallurgy and Materials, 2016, vol. 61, No. 2, p. 897-904

4.

Pawełek A., Ozgowicz W., Ranachowski Z., Piątkowski A., Kudela S., Jr., Wajda W., Skuza W., Grzegorzczak B., **Tarasek A.**, Kudela S.: „Mechanisms of plastic instability and fracture of compressed and tensile tested Mg-Li alloys investigated using acoustic emission method”, Frattura ed Integrata Strutturale, 2016, vol. 35, pp.11-20

5.

Paul H., Driver J.H., **Tarasek A.**, Wajda W., Miszczyk M.M.: „Mechanism of macroscopic shear band formation in plane strain compressed fine-grained aluminium”, Materials Science and Engineering A, 2015, vol. 642, pp. 167-180

6.

**Tarasek A.**, Olszowska Sobieraj B., Stolarska J., Uliasz P.: „The influence of the technology of microstructure formation and properties of AlMgSi alloys on the micro-cracks under load of static compression”, Key Engineering Materials, 2016, vol. 682, pp. 99-106

7.

Paul H., Baudin T., Brisset F., **Tarasek A.**: „Recrystallization of ECAP-processed AA4343 aluminium alloy containing large second phase particles”, Materials Science Forum, 2013, vol. 753, pp. 239-242

8.

Paul H., Baudin T., **Tarasek A.**, Brisset F.: „Crystallographic aspects of deformation and recrystallization in ECAP-processed AA3104 aluminium alloy”, Solid State Phenomena, 2012, vol. 186, pp. 98-103

## Research Projects

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3 T08B 051 26: *The influence of natural ageing of wire rod on suppleness to drawing and shaping properties of wires made of conductive AlMgSi alloy* - AGH - University of Science and Technology, Faculty of Non-Ferrous Metals (2004-2007) - contractor

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3 T08B 082 28: *Investigation of properties evolution of wires made of conductive AlMgSi alloys due to exposure to temperature and stress* - AGH - University of Science and Technology, Faculty of Non-Ferrous Metals (2004-2007) - contractor

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R 15 048 03: *Development of shaping technology of multilayer products for heat exchangers made from new functional materials based on aluminum alloys* - Institute of Metallurgy and Materials Science Polish Academy of Science (2007-2010) - contractor

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N 507 110 32/3350: *Modification of microstructure and texture of magnesium alloy construction aimed at improving the technology in their development* - Institute of Metallurgy and Materials Science Polish Academy of Science (2007-2010) - contractor

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N 507 056 31/1289: *Application of acoustic methods to the determination of mechanical properties of nanocrystalline alloys, composites and ceramic materials* - Institute of Metallurgy and Materials Science Polish Academy of Science (2006-2009) - contractor

## **Experience gained within the country and abroad**

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2nd International Conference on Non-Ferrous Metals, 22.06 - 24.06.2015 Kraków

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International Conference Human safety in work environment. Operating machinery and equipment. Integrated Management Systems: Quality - Environment - Safety - Technology Szczecin - Ystad - Kopenhaga - Malmö - Szczecin 09.10 - 13.10.2013

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XXXVII School of Material Engineering, Kraków - Krynica, 29.09 - 02.10.2009, AGH - University

of Science and Technology

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*XIII Technology and Training Conference: "Electromagnetic and Telecommunication Cable and Overhead Lines"*, Zakopane 14-17 March 2006 / Institute of Non-Ferrous Metals - Gliwice.  
Association of Engineers and Technicians of Non-Ferrous Metals - SITMN

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*VI Science Conference: Deformation of Metals and Alloys*, 22-25.11.2005, Metalurgy  
Committee PAS

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*International Drawing Conference: "Modern Technology and Modeling the Process of Manufacturing Wires and Wire Products"*, Zakopane, 03-05.11.2005

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*XXXII School of Material Engineering*, Kraków - Krynica, 28.09 - 01.10.2004, AGH - University of  
Science and Technology