

Phone.: (012) 295 28 86, room 102

Fax: (012) 295 28 04

e-mail: nmwajda@imim-pan.krakow.pl

Employment and positions

Institute of Metallurgy and Materials Science, Polish Academy of Sciences: assistant professor (since 2005). Since March 2006 head of Strength Testing Laboratory of Accredited Testing Laboratories.

Scientific Career

M.Sc.: AGH – University of Science and Technology, Faculty of Metal Engineering and Industrial Computer Science, 1999

Ph.D.: AGH – University of Science and Technology, Faculty of Metal Engineering and Industrial Computer Science, 2005

Scientific achievements

Totally 36 papers published among them 1 in the journal cited by the Institute for Scientific Information in Philadelphia, 10 presentations during conferences.

The most relevant publications during last 5 years

1.

Wajda, W., Moe, P.T., Støren, S., Lefstad, M., Flatval, R.: "Measurement of Temperature and Pressure During Thin-Strip Extrusion", Proceedings ESAFORM 2005, Cluj-Napoca,

2.

Moe P.T., **Wajda W.**, Støren S., Lefstad M., Flatval R., An Experimental and Numerical Study of Induction Heating, Proceedings 8th ESAFORM, Cluj-Napoca, 577 - 580

3.

Wajda W., Paul H., Rozwój mikrostruktury w stopie aluminium A7475 odkształconym w procesie KOBÓ, Mat. Konf. KomPlasTech 2006,

4.

Żmudzki A., **Wajda W.**, Paul H., Pietrzyk M., Ocena bilansu energetycznego procesu wyciskania z wymuszoną zmianą drogi odkształcenia, Rudy i Metale, R51, 2006, 260 - 266

5.

M. PIETRZYK, Ł.MADEJ, D. SZELIGA, R. KUZIĄK, V.PIDVYSOTSKYY, H. PAUL, **W. WAJDA**,
Rheological models of metallic materials, Monografia: Research in Polish Metallurgy at the Beginning of XXI Century, ed. K.Świątkowski, 2006

6.

W.Wajda, H.Paul, Influence of grains misorientation on material hardening on example of aluminium bicrystals deformed in channel die, Mechanics of Advanced Materials and Structures, 2007,14,687-697

7.

H. Paul, J.H. Driver, **W. Wajda**, Strain hardening and microstructure evolution of channel-die compressed aluminium bicrystals, Mater. Sci. Eng. A (2007)

8.

L. Trębacz, M. Pernach, Ł. Madej, **W. Wajda**, M. Pietrzyk, H.Paul, Finite element simulation of deformation of polycrystals accounting for the orientation of grains, Mat. Konf. Computer Methods and Systems, 21 - 23 November 2007, Kraków, 161 - 166

9.

W.Wajda, H.Paul, Modeling of microstructure and texture evolution of channel-die deformed aluminum bicrystals with $\{100\}<001>/\{110\}<011>$ grains orientation, Computer Methods In Materials Science, 2009, vol. 9, no. 2, 277-282

10.

W.Wajda, H.Paul, Optimisation of parameters of single crystal model for aluminium bicrystals, Computer Methods In Materials Science, 11, 2011, 357-363

Research Projects

Projects from Ministry of Science and Higher Education

· *Modeling of microstructure and texture development including shear bands role* Project No. 3 T08A 061 30, supervisor, 2006 – 2009

Experience gained abroad

University of Waterloo, Canada, training on temper rolling (numerical simulation), 2000 (4 months)

Norwegian University of Science and Technology, research on material stable flow during thin walled profile extrusion, 2002 – 2005 (31 months)

Main scientific interest

Continuum mechanics, material behaviour modelling, numerical simulation (Finite Element Method) of plastic deformation/forming processes, material strength properties.