dr hab. inż. Lech **Olejnik**, prof. ndz. PW

Zakład Obróbki Plastycznej i Odlewnictwa
Instytut Technik Wytwarzania
Wydział Inżynierii Produkcji
Politechniki Warszawskiej
ul. Narbutta 85, 02-524 Warszawa
kierownik grupy badawczej **UFG**by**SPD**

Dorobek publikacyjny za okres do listopada **2017**

Autor lub współautor **146** publikacji naukowych, referatów i wystąpień (w tym **70** publikacji w czasopismach z listy IF+JCR i ujętych w bazie WoS – **47** ujętych w Web of Science Core Collection) oraz **9** książek

Wskaźniki bibliograficzne

za okres do **17.06.2013** wg badania bibliograficznego przeprowadzonego przez Oddział Informacji Naukowej Biblioteki Głównej Politechniki Warszawskiej wartość indeksu Hirscha – **8**; liczba cytowań – 240 (w tym **162** cytowania z wykluczeniem autocytowań), wart. IF – **9,62**

Książki / Books

Monografie [1]

L. Olejnik: „Technika wytwarzania ultradrobnoziarnistych metali i stopów metodą przeciskania przez kanał kątowy". Prace naukowe Politechniki Warszawskiej, seria Mechanika. z.240 (2012), pp.215 OWPW (ISSN 0137-2335)

Współautorstwo publikacji i opracowań zbiorowych [5]

L. Olejnik: „Tooling for ECAP". Chapter 3 in: Severe Plastic Deformation Techniques. Edited by A.Rosochowski. Whittles Publishing, Dunbeath, U.K. **2017** , pp.87-134 (ISBN 978-184995-091-6) http://www.whittlespublishing.com/Severe_Plastic_Deformation_Technology

A. Rosochowski, **L. Olejnik**: „Severe plastic deformation for grain refinement and enhancement of properties". Chapter 5 in: Microstructure evolution in metal forming processes: modelling and applications. Eds.: J Lin, D Balint and M Pietrzyk. Woodhead Publishing Ltd., Sawston, **2012**, pp.114–141 (p.416) (ISBN-13: 978-0-85709-074-4)

U.Engel, A.Rosochowski, S.Geißdörfer, **L.Olejnik**: "Microforming and Nanomaterials". Chapter 9 in: Advances in Material Forming. Eds.: F.Chinesta and E.Cueto, Springer-Verlag France, Paris **2007**, pp. 99-124 (ISBN-13: 978-2-287-72142-7)

Rosochowski A., **Olejnik L.**, Richert M.: "3D-ECAP of square aluminium billets". Chapter in: Advanced Methods in Material Forming. Ed.: D. Banabic, Springer (**2007**), pp. 215-232 (ISBN: 978-3-540-69844-9)

K.Chodnikiewicz, **L.Olejnik**: Automatic Supervision in metal forming. Chapter 6 in: "Automatic Supervision in Manufacturing". Ed. M.Szafarczyk, Springer-Verlag, London, **1994**, pp.121-138 (ISBN 3-540-19858-x)

Opublikowane podręczniki i skrypty [3]

Kuczyński K., Erbel S., **Olejnik L.**: "Obróbka plastyczna. Laboratorium", Oficyna Wydawnicza Politechniki Warszawskiej. Warszawa **2003**. Skrypt dla kier. Mechanika i Budowa Maszyn

Olejnik L., Smoczyński Z.: " Wyposażenie pomiarowe i badawcze akredytowanego laboratorium przemysłowego. Biuro Gamma. Warszawa **1999**. Skrypt do zajęć szkoleniowych w zakresie systemów zapewnienia jakości.

Olejnik L.: "Nadzorowanie zautomatyzowanych procesów obróbki plastycznej" OWPW Warszawa **1997**. Skrypt dla kierunku Automatyka i Robotyka

Publikacje w czasopismach i wydaniach książkowych

2017

146 [70] AM.Elkaseer, SS.Dimov, DT.Pham, KP.Popov, **L.Olejnik** and A.Rosochowski: Material microstructure effects in micro-endmilling of Cu99.9E. Proc IMechE Part *B: Journal of Engineering Manufacture*. Vol.231 (2017) 12/02, pp.1-13

145 referat A.Rosochowski, L.Olejnik: New method of producing tailored blanks with constant thickness. International Conference on the Technology of Plasticity, ICTP 2017, 17-22 September 2017, Cambridge, United Kingdom

144 [69] M.Lipinska, W.Chrominski, **L.Olejnik**, J.Goliński, A.Rosochowski, M.Lewandowska: Ultrafine grained plates of Al-Mg-Si alloy obtained by Incremental Equal Channel Angular Pressing: Microstructure and Mechanical Properties. *Metallurgical and Materials Transactions A.* Vol. 48A (2017) 10: 4871—4882

143 [68] M.Ciemiorek, W.Chrominski, **L.Olejnik**, M.Lewandowska: Evaluation of mechanical properties and formability of ultrafine grained aluminum 1050 sheets produced by incremental ECAP. *Materials & Design*. 130 (2017) 9, pp:392-402

142 [67] M.Lipińska, E.Ura-Bińczyk, **L.Olejnik**, A.Rosochowski, M.Lewandowska: "Microstructure and Corrosion Behavior of the Friction Stir Welded Joints Made from Ultrafine Grained Aluminium". *Advanced Engineering Materials*. Vol.17 (2017)7: 1-10

141 referat M.Lipinska**,** L.Olejnik, A.Rosochowski, M.Lewandowska: Ultrafine grained aluminium plates obtained by the ECAP-PC process with subsequent upsetting. 7th International Conference on Nanomaterials by Severe Plastic Deformation (NanoSPD7) July 2-8, 2017, Sydney, Australia

140 referat M.Ciemiorek, W.Chrominski, L.Olejnik, A.Rosochowski, M.Lewnadowska: Incremental ECAP as a method of producing UFG plates with low anisotropy and good formability. 7th International Conference on Nanomaterials by Severe Plastic Deformation (NanoSPD7) July 2-8, 2017, Sydney, Australia

139, 9 BOOK **L.Olejnik**: „Tooling for ECAP". Chapter 3 in: Severe Plastic Deformation Techniques. Edited by A.Rosochowski. *Whittles Publishing*, Dunbeath, U.K. 2017, pp.87-134

2016

138 [66] M.Lewandowska, W.Chrominski, M.Lipinska, **L.Olejnik** and A.Rosochowski: Incremental ECAP as a method to produce ultrafine grained aluminium plates. 13th International Aluminium Conference – **INALCO 2016**, Naples, 21-23 September, 2016. *Key Engineering Materials* (ISSN: 1662-9795), Vol. 710, pp. 59-64, 2016 September. DOI 10.4028/www.scientific.net/KEM.710.59

137 [65] A.Rosochowski, **L.Olejnik**: Incremental Non-Equal Channel Angular Pressing – FE Simulation. **ESAFORM2016** The 19th International ESAFORM Conference on Material Forming, Nantes - France, April 27-29th 2016. AIP Conference Proceedings, Melville, USA, vol. 1769, 010001 (2016); http://dx.doi.org/10.1063/1.4963404 , vol. 1769, pp.1-6, ISBN:

978-0-7354-1427-3 Editors: Francisco Chinesta, Elias Cueto and Emmanuelle Abisset-Chavanne ISSN: 0094-243X

136 [64] M.Lipinska, **L.Olejnik**, M.Lewandowska: Characterization of Microstructure and Mechanical Properties of 1350 Aluminium Alloy Processed by Equal-Channel Angular Pressing with Parallel Channels. **TMS 2016** 145th Annual Meeting & Exhibition, February 14 – 18, 2016, Nashville, Tennessee, USA Symposium Ultrafine Grained Materials IX. pp.1-7

135 [63] M.Gzyl, A.Rosochowski, S.Boczkal, **L.Olejnik**, M.N.Katimon: Producing High-Strength Metals by I-ECAP. *Advanced Engineering Materials*. Vol.18 (2016) Issue 2, pp. 219-223

2015

134 [62] **L. Olejnik**, A. Rosochowski: Wytwarzanie wielofunkcyjnych blach do tłoczenia za pomocą przyrostowego odkształcania w kanale kątowym. Production of tailored blanks by Incremental ECAP. *Obróbka Plastyczna Metali* (Metal Forming – ISSN 0867-2628) Vol. XXVI (2015) 4, pp. 307–324

133 [61] (Publikacja konferencyjna uwzględniana w bazie WoS) referat M. Lipińska, **L. Olejnik**, W. Chromiński, A. Rosochowski, J. Goliński, M. Lewandowska: Microstructure evolution in aluminium 6060 during Incremental ECAP. EUROMAT_2015 European Congress and Exhibition on Advanced Materials and Processes. Warsaw, Poland, September 20–24, 2015

132 [60] M.Lipińska, **L.Olejnik**, A.Pietras, A.Rosochowski, P.Bazarnik, J.Goliński, T.Brynk and M.Lewandowska: Microstructure and mechanical properties of friction stir welded joints made from ultrafine grained aluminium 1050. *Materials & Design*. 88 (2015) 12, pp. 22–31

131 poster L. Olejnik, M. Lipińska, W. Chromiński, M. Lewandowska: Efficient method of producing ultrafine grained non-ferrous metals. INTARG – Międzynarodowe Targi Innowacji Gospodarczych i Naukowych (Eurobusiness-Haller), 25 - 26 czerwca 2015, Kraków

130 referat M.Lipińska, L.Olejnik, E.Ura-Bińczyk, J.Goliński, A.Rosochowski, M.Lewandowska: Influence of grain size on the corrosion resistance of aluminium alloy Al 6060. VII Aluminium Surface Science & Technology Symphosium (**ASST2015**) 17-21 May, 2015, Madeira

129 referat L.Olejnik, J.Goliński, A.Rosochowski: Wytwarzanie wielofunkcyjnych blach techniką ścinania. Prace naukowe Politechniki Warszawskiej, seria Mechanika. z.267 (2015), pp.155-160. OWPW (ISSN 0137-2335, ISBN 978-83-7814-370-3) IX konferencja (**FIMM'15**) Fizyczne i Matematyczne Modelowanie Procesów Obróbki Plastycznej, 17-19.05.2015, Jabłonna

128 referat J.Goliński, L.Olejnik, A.Rosochowski: Kształtowanie przyrostowe wielofunkcyjnych pakietów blaszanych do tłoczenia. Prace naukowe Politechniki Warszawskiej, seria Mechanika. z.267 (2015), pp.149-154. OWPW OWPW (ISSN 0137-2335, ISBN 978-83-7814-370-3) IX konferencja (**FIMM'15**) Fizyczne i Matematyczne Modelowanie Procesów Obróbki Plastycznej, 17-19.05.2015, Jabłonna

127 [59] M. Gzyl, A. Rosochowski, S. Boczkal, **L. Olejnik**: The role of microstructure and texture in controlling mechanical properties of AZ31B magnesium alloy processed by I-ECAP. *Materials Science and Engineering: A-Structural Materials Properties Microstructure And Processing*. Vol.638, 25 June 2015, pp.20–29

126 [58] W.Chrominski, **L.Olejnik**, A.Rosochowski, M.Lewandowska: Grain refinement in technically pure aluminium plates using incremental ECAP processing. *Materials Science And Engineering A-Structural Materials Properties Microstructure And Processing*. 636 (2015), pp. 172–180

125 [57] A. Rosochowski, **L. Olejnik**, M. Rosochowska: Tailored Sheared Blanks Produced by Incremental ECAP. *Key Engineering Materials*. Vols. 651-653 (2015) pp 651-656

124 referat A.Rosochowski, L.Olejnik, M.Rosochowska: Tailored Sheared Blanks Produced by Incremental ECAP. **ESAFORM 2015** The 18th annual ESAFORM Conference on Material Forming, Graz - Austria, 15-17th April, 2015

123 [56] M.Gzyl, R.Pesci, A.Rosochowski, S.Boczkal & **L.Olejnik**: In situ analysis of the influence of twinning on the strain hardening rate and fracture mechanism in AZ31B magnesium alloy. *Journal Of Materials Science*. 50 (2015) 6, pp.2532–2543

122 [55 iSOD] – N.pkt.**12** (I.1.2. Publikacja w czasopiśmie z wykazu MNiSW) M. Gzyl, A. Rosochowski, **L. Olejnik**, K. Sikora, M.J. Qarni: Determination of friction factor by ring compression testing and FE analysis. *Computer Methods In Materials Science*, Vol. 15, 2015, No.1, pp.156-161

121 referat M.Gzyl, A.Rosochowski, L.Olejnik, K.Sikora: Determination of friction factor by ring compression testing and FE analysis. p.1-8. XXII Conference Computer Methods in Materials Technology. **KomPlasTech 2015**. January 11-14, 2015, Krynica-Zdrój

2014

120 referat A.Rosochowski, M.Rosochowska, L.Olejnik: A method of forming thick-walled oblique rings. 11th International Conference on Technology of Plasticity, **ICTP 2014**. October 19-24, 2014, Nagoya Congress Center, Nagoya, Japan

119 referat M.Lipińska, L.Olejnik, J.Goliński, A.Pietras, T.Brynk, A.Rosochowski and M.Lewandowska: "Joining ultrafine grained aluminium by friction stir welding – processing, microstructure and mechanical properties". Nano PL Conference "Nanotechnology and Advanced Materials for Innovative Industry", October 15 – 17, 2014, Kielce

118 [54 iSOD] – N.pkt.**10** (Publikacja konferencyjna uwzględniana w bazie WoS) **L. Olejnik**, W. Chrominski, A. Rosochowski, M. Lipinska, M. Lewandowska: Incremental ECAP as a novel tool for producing ultrafine grained aluminium plates. *Materials Science and Engineering* 63 (2014) 012004, pp.1–10 doi:10.1088/1757-899X/63/1/012004

117 [53] A. Rosochowski, **L. Olejnik**: Incremental ECAP of thick continuous plates - machine and initial trials. *Materials Science and Engineering*. 63 (2014) 012010, no. 1, pp.1–6 doi:10.1088/1757-899X/63/1/012010

116 referat L.Olejnik, W.Chrominski, A.Rosochowski, M.Lipinska, M.Lewandowska: Incremental ECAP as a novel tool for producing ultrafine grained aluminium plates. 6th International Conference on Nanomaterials by Severe Plastic Deformation (**NanoSPD6**). June 30 - July 4, 2014, Metz, France

115 referat A.Rosochowski, L.Olejnik: Incremental ECAP of thick continuous plates - machine and initial trials. 6th International Conference on Nanomaterials by Severe Plastic Deformation (**NanoSPD6**). June 30 - July 4, 2014, Metz, France

114 [52] M. Gzyl, A. Rosochowski, L. Olejnik and A. Reshetov: The Effect of Initial Grain Size on Formability of AZ31B Magnesium Alloy during I-ECAP. *Key Engineering Materials*. Vols. 611-612 (2014) pp 573-580

113 referat M.Gzyl, A.Rosochowski, L.Olejnik and A.Reshetov: The Effect of Initial Grain Size on Formability of AZ31B Magnesium Alloy during I-ECAP. **Esaform 2014** 17th ESAFORM Conference 7 - 9 May 2014, Dipoli Congress Centre, Espoo, Finland

112 [51] M. Gzyl, A. Rosochowski, R. Pesci, **L. Olejnik**, E. Yakushina, P. Wood: Mechanical Properties and Microstructure of AZ31B Magnesium Alloy Processed by I-ECAP. *Metallurgical and Materials Transactions A*, Vol.45A (2014)III, pp.1609–1620

2013

111 [50] M. Gzyl, A. Rosochowski, E. Yakushina, P. Wood, **L. Olejnik**: Route effects in I-ECAP of AZ31B magnesium alloy. *Key Engineering Materials.* Vols. 554-557 (2013) pp 876-884

110 [49] A. Rosochowski, **L. Olejnik**: Incremental ECAP with Converging Billets. *Key Engineering Materials.* Vols. 554-557 (2013) pp 869-875

109 referat M.Gzyl, A.Rosochowski, R.Pesci, E.Yakushina, **L.Olejnik**, P.Wood: "Mechanical properties of AZ31B magnesium alloy processed by I-ECAP". **TMS Magnesium Workshop,** Madrid 2013, May 21-24, 2013, Madrid, Spain

108 [48 iSOD Pkt.MNiSW– **10**] M.Gzyl, A.Rosochowski, A.Milenin, **L.Olejnik**: Modelling microstructure evolution during equal channel angular pressing of magnesium alloys using cellular automata finite element method. Computer Methods in Materials Science. Vol. 13, 2013, No. 2, pp. 357 – 363

107 referat M.Gzyl, A.Rosochowski, E.Yakushina, P.Wood, L.Olejnik: Route effects in I-ECAP of AZ31B magnesium alloy. The 16th International ESAFORM Conference on Material Forming. **ESAFORM 2013**. University of Aveiro, Portugal, 22-24 April, 2013

106 referat A.Rosochowski, L.Olejnik: Incremental ECAP with Converging Billets. . The 16th International ESAFORM Conference on Material Forming. **ESAFORM 2013**. University of Aveiro, Portugal, 22-24 April, 2013

105 referat M.Gzyl, A.Rosochowski, A.Milenin, L.Olejnik: Modelling microstructure evolution during equal channel angular pressing of magnesium alloys using cellular automata finite element method. XX Conference Computer Methods in Materials Technology. **KomPlasTech 2013**. Zakopane, 13-16, January, 2013 [Conf.Proc.], pp.1-8

104 [47] A.Rosochowski, **L.Olejnik**, J.Richert, M.Rosochowska, M.Richert: Equal channel angular pressing with converging billets - experiment. *Materials Science And Engineering A-Structural Materials Properties Microstructure And Processing* A560 (2013)1, 358–364

103 [46] A Rosochowski, M Rosochowska, **L Olejnik**: Severe plastic deformation by incremental angular splitting. Journal of Materials Science. Vol.48 (2013) 13, pp.4557-4562. Special Issue: Warsaw-Ultrafine Grained Materials (Print ISSN 0022-2461), pp.1-6

2012

102 referat M. Rosochowska, R. Balendra, A. Rosochowski, L. Olejnik: FE modelling of multi-stage drawing of a miniature tubular component with a middle flange and rounded edge. In: A. Tewari, K. Narasimhan and P.P. Date (Eds), Lightweighting: Possibilities & Challenges, Proc. of the Annual Conference of the International Deep Drawing Research Group, **IDDRG 2012**, 25-29 November 2012, Mumbai, India, pp. 128-133

101 referat P.Wood, A.Rusinek, R.Pesci, A.Rosochowski, L.Olejnik: "Effect of grain size and stress state on the behaviour of Magnesium AZ31b alloy". Dynamic Behavior of Materials and Safety of Structures. Workshop 2012, 2-4 May, 2012, Poznań, Poland (Poznan University of Technology)

100, 8 BOOK [iSOD –N.pkt.20] **L.Olejnik**: „Technika wytwarzania ultradrobnoziarnistych metali i stopów metodą przeciskania przez kanał kątowy". *Prace naukowe Politechniki Warszawskiej, seria Mechanika*. z.240 (**2012**), pp.215 OWPW (ISSN 0137-2335)

99, 7 BOOK [iSOD – N.pkt.5] A. Rosochowski, **L. Olejnik**: Severe plastic deformation for grain refinement and enhancement of properties. Chapter 5 in: Microstructure evolution in metal forming processes: modelling and applications. Edited by J Lin, D Balint, Imperial College London, UK and M Pietrzyk, AGH University of Science and Technology Krakow, Poland. Woodhead Publishing Ltd., Sawston, **2012** , pp.114–141

98 referat A Rosochowski, M Rosochowska, L Olejnik: New SPD Process of Incremental Angular Splitting. **E-MRS** Fall Meeting 2012. Warsaw University of Technology, Warsaw, Poland. 17-21 September, 2012

97 [45 iSOD –N.pkt.8] A.Rosochowski, M.Rosochowska, **L.Olejnik**: New SPD Process of Incremental Angular Splitting. PTS 1 & 2 Book (Eds: M.Merklein, H.Hagenah) Series. *Key Engineering Materials*. Vols. 504-506 (2012) pp 569-574

96 referat A Rosochowski, M Rosochowska, L Olejnik: New SPD Process of Incremental Angular Splitting. The 15th International ESAFORM Conference on Material Forming. **ESAFORM 2012**. University Erlangen-Nuremberg, Germany. 14-16 March, 2012

2011

95 [44 iSOD] A.Rosochowski, L.Olejnik: Incremental ECAP of Tubular Components - FE Simulation. Book (Ed: G.Menary) Series: AIP Conference Proceedings Vol.1353 (2011) pp:517–522 American Institute of Physics 978-0-7354-0911-8/$30

94 referat A. Rosochowski, L. Olejnik: Incremental ECAP of Tubular Components - FE Simulation. The 14th International ESAFORM Conference on Material Forming. **ESAFORM 2011**. Queens University Belfast, 27-29 April 2011, Northern Ireland, UK

93 [43 iSOD] A.Rees, S.S.Dimov, R.Minev, G.Lalev, A.Rosochowski and **L.Olejnik**: The effect of material grain structure on the surface integrity of components processed by microwire electrical discharge machining (μWEDM). *Proceedings Of The Institution Of Mechanical Engineers Part B-Journal Of Engineering Manufacture* Vol.225 (2011) B9 pp 1647–1656

92 referat A. Rosochowski, L. Olejnik, Equal channel angular pressing with converging billets - FE simulation, In: G. Hirt and A.E. Tekkaya (Eds), Proc. of the 10th International Conference on Technology of Plasticity, **ICTP 2011**, 25-30 September 2011, Aachen, Germany, pp. 235-240

91 referat A.Rosochowski, L.Olejnik: Uzyskiwanie ultradrobnoziarnistych struktur w metalowych przedmiotach o pierścieniowym przekroju poprzecznym. VII konferencja (**FIMM'11**) Fizyczne i Matematyczne Modelowanie Procesów Obróbki Plastycznej, 19-21.05.2011, Jabłonna [Conf.Proc.] Prace naukowe PW. Mechanika Z. 238, pp.133-140 OWPW, W-wa 2011

90 [42 iSOD] A.Rosochowski, **L.Olejnik**: Incremental Equal Channel Angular Pressing for Grain Refinement. Materials Science Forum, Vol.674 (2011) p.19-28

89 referat Z.Pakiela, L.Jarosz, L.Olejnik: Thermal stability of 5483 Al alloy processed by ECAP (**BNM2011**), August 23-26, 2011, Ufa, Russia.

88 referat A.Rosochowski, L.Olejnik: New process configurations for ECAP (**BNM2011**), August 23-26, 2011, Ufa, Russia.

87 [41] A.Rosochowski, **L.Olejnik**: Current Practice and Future Opportunities for Two-Turn ECAP. PTS 1 & 2 Book (Eds: JT.Wang, RB.Figueiredo, TG.Langdon) Series: *Materials Science Forum* Vol.667-669 (2011) pp 121-126

86 referat A.Rosochowski, L.Olejnik: Current Practice and Future Opportunities for Two-Turn ECAP. 5th International Conference on Nanomaterials by Severe Plastic Deformation (**NanoSPD5**). March 21 - 25, 2011, Nanjing, China. Nanjing Univ Sci & Technol. Sponsor(s): Nanjing Univ Sci & Technol; Int NanoSPD Steer Comm; Natl Nat Sci Fdn China; Minist Sci & Technol China; Chinese Acad Sci, Inst Metal Res; Baoshan Iron & Steel Co Ltd

2010

85 referat A.Rosochowski, M.Rosochowska, L.Olejnik, B.Verlinden: "Incremental ECAP of Sheets". **MF2010** 13th International Conference on Metal Forming September 19-22, 2010, Toyohashi, Japan

84 referat A.Rosochowski, L.Olejnik: "Incremental Equal Channel Angular Pressing for Grain Refinement" **E-MRS 2010** Fall Meeting (Symposium L), September 13-17, 2010, Warsaw, Poland

83 [40] A.Rosochowski, M.Rosochowska, **L.Olejnik**, B.Verlinden: "Incremental equal channel angular pressing of sheets". Steel Research International, 81 (2010) No. 9 p.470-473

82 [39] T.Brynk, M.Rasiński, Z.Pakieła, **L.Olejnik**, K.J.Kurzydłowski: "Investigation of fatigue crack growth rate of Al 5483 ultrafine grained alloy after ECAP process", Physica Status Solidi A 207 (2010) No. 5, 1132–1135

81 [38] M.Rosochowska, A.Rosochowski, **L.Olejnik**: „FE simulation of micro-extrusion of a conical pin". International Journal of Material Forming, Vol.3, 2010, (Suppl.1), p.423-426

80 referat M.Rosochowska, A.Rosochowski, L.Olejnik: „FE simulation of micro-extrusion of a conical pin". **Esaform2010**, April 7-9, 2010, Brescia, Italy

79 referat L.Olejnik: „Wytwarzanie płyt i blach o strukturze UFG wykonanych z metali lekkich". Sympozjum Naukowe w Laboratorium Ciśnieniowego Kształtowania Materiałów Inżynierskich Instytutu Wysokich Ciśnień PAN, Celestynów 23.02.2010

2009

78 referat Rosochowska M., Rosochowski A., Olejnik L.: Finite element analysis of forward extrusion of 1010 steel. Annals of Dunarea de Jos, University of Galati, Fascicle V, Technologies in Machine Building (2009)

77 referat T.Brynk, M.Rasinski, Z.Pakiela, L.Olejnik, K.J.Kurzydlowski: "Investigation of fatigue crack growth rate of Al 5483 ultrafine grained alloy after ECAP process" **E-MRS 2009** Fall Meeting (Symposium H) pp.1-4

76 [37 iSOD] **L.Olejnik**, W.Presz, A.Rosochowski: "Backward extrusion using micro-blanked aluminium sheet". Int.J.Mater.Form. (2009) Vol. 2 Suppl 1, pp.617–620

75 [36] L.Olejnik, M.Kulczyk, W.Pachla, A.Rosochowski: „Hydrostatic extrusion of UFG aluminium". Int J Mater Form (2009) Vol. 2 Suppl 1, pp.621–624

74 referat Rees A., Dimov S.S., Minev R., Lalev G., Rosochowski A., Olejnik L.: The effect of surface integrity of components processed by μWEDM. (**4M/ICOMM2009**) Annual Conference on Multi-Material Micro Manufacture, 23–25 Sep.2009, Karlsruhe, Germany [Conf.Proc.] p.219-222

73 referat Pham D.T., Elkaseer A.M., Popov K.P., Dimov S.S., Olejnik L., Rosochowski A.: Micromiling of coarse-grained and ultrafine-grained Cu99.9E: Effects of material microstructure on machining conditions and surface quality. In : Proceedings of the International Conferences on Multi-Material Micro Manufacture (4M)/International Conferences on Micro Manufacturing (ICOMM), 23–25 Sep.2009, Karlsruhe, Germany p.241-244 (2009)

72 referat D.T.Pham, A.M.Elkaseer, K.P.Popov, S.S.Dimov, L.Olejnik, A.Rosochowski: An experimental and statistical study of the factors affecting surface roughness in the micromilling process. Proceedings of **IPROMS'09** (International Virtual Conference) Innovative Production Machines and Systems Conference, 6–17th July 2009, Cardiff, UK, pp.1-7

71 [35] **L.Olejnik**, A.Rosochowski: „Przyrostowy sposób przeciskania przez kanał kątowy". Przegląd Mechaniczny. 68(2009)10, pp.22-27

70 [34] D.Myszka, **L.Olejnik**, M.Kłębczyk: „Mikrostructure transformation during plastic deformation of the austempered ductile iron". Archives of Foundry Engineering. 9(2009)1, pp.169-174 ISSN 1733-3490 (dawniej: Archiwum Odlewnictwa)

69 [33] A.Rosochowski, **L.Olejnik**: „Ultrafine grains – a new option for light metals". Materials Technology (Advanced Performance Materials) Vol 24 (2009) No 3, pp.139-142

68 referat J. Kokkonen, V-T. Kuokkala, J.D. Seidt, A. Walker, A. Gilat, L. Olejnik, A. Rosochowski: „High strain rate deformation analysis of UFG aluminum sheet samples". Proceedings of the 2009 SEM Annual Conference and Exposition on Experimental and Applied Mechanics (**SEM09**) Albuquerque, New Mexico USA, June 1–4, 2009. [Conf.Proc.] paper No.318, pp.1-7

67 referat L.Olejnik, J.Goliński, A.Rosochowski: Wytwarzanie odkształceń ścinających metodą przyrostową. (**FIMM'09**) Fizyczne i Matematyczne Modelowanie Procesów Obróbki Plastycznej, 14-16.05.2009, Jabłonna [Conf.Proc.] Prace naukowe PW. Mechanika Z. 226, pp.7-12 OWPW, W-wa 2009

66 referat M.Rosochowska, A.Rosochowski, L.Olejnik: "Finite element analysis of forward extrusion of 1010 steel". International Conference New Technologies in Manufacturing (**NewTech2009**), Galati, Romania 23–25 September 2009 [Conf.Proc.] pp.1-6

65 referat A.Rosochowski, L.Olejnik: Ultrafine grained metals in micro-manufacturing. 2nd International Symposium on Bulk Nanostrutured Materials (**BNM2009**), Sept. 22–26, 2009, Ufa, Russia

64 referat L.Olejnik, W.Presz, A.Rosochowski: ”Backward extrusion using micro-blanked aluminium sheet” [Conf.Proc.] **Esaform2009** Proceedings of the 12th ESAFORM Conference on Material Forming, Enschede (the Netherlands), 27-29 April 2009 (edited by A.H. van den Boogaard, R. Akkerman, University of Twente)

63 referat L.Olejnik, M.Kulczyk, W.Pachla, A.Rosochowski: „Hydrostatic extrusion of UFG aluminium” [Conf.Proc.] **Esaform2009** VOL: Proceedings of the 12th ESAFORM Conference on Material Forming, Enschede (the Netherlands), 27–29 April 2009 (edited by A.H. van den Boogaard, R. Akkerman, University of Twente)

62 referat L.Olejnik: „Wytwarzanie półwyrobów z metali UFG przeznaczonych do dalszego przerobu”. Symposium **UNIPRESS**, Instytut Wysokich Ciśnień PAN, 15.01.2009, Celestynów

2008

61 [32] **L. Olejnik**, A. Rosochowski: „Scaled-up ECAP with enhanced productivity”, 12th International Conference Metal Forming (**MF2008**), Sept.21-24, 2008 Kraków, Poland. Steel Research International 79 (2008), Special Edition, Vol. 2 pp.439-446

60 referat L. Olejnik, A. Rosochowski: „Using ICFG guidelines for developing ECAP with enhanced productivity”, 41st ICFG Plenary Meeting (**IGFG2008**) September 14 - 17, 2008, Warsaw, Poland. [Conf.Proc.] pp.1-7

59 referat Geissdörfer S., Rosochowski A., Olejnik L., Engel U.: Micro-extrusion of an ultrafine grained copper can. 4th International Conference on Multi-Material Micro Manufacture (**4M2008**), Cardiff, UK, September 9–11, 2008, [Conf.Proc.] pp.191-194

58 V-T. Kuokkala, J. Kokkonen, B. Song, W. Chen, **L. Olejnik** and A. Rosochowski: „Dynamic Response of SPD Processed 1070 Aluminum at Various Temperatures”. 18th **Dymat 2008** Technical Meeting, September10–12, Bourges, France. . [Conf.Proc.] Edited by H. Couque, pp. 39-46. In “The Behaviour of Bulk Nanomaterials and Metallic Glasses under Dynamic Loading” H. Couque, editor, ISBN : 2-9517947-3-8, 2008 by DYMAT, CEA Centre de Valduc, 21120 Is-sur-Tille, France

57 [31] A. Rosochowski, **L. Olejnik**, M. Richert: „Double-billet Incremental ECAP”, 4th International Conference on Nanomaterials by Severe Plastic Deformation (**NanoSPD4**), Goslar, Germany, August 18–22, 2008, Materials Science Forum 584-586 (2008) pp 139-144

56 [30] **L. Olejnik**, A. Rosochowski, M. Richert: „Incremental ECAP of plates”, 4th International Conference on Nanomaterials by Severe Plastic Deformation (**NanoSPD4**), Goslar, Germany, August 18–22, 2008, Materials Science Forum 584-586 (2008) pp 108-113

55 referat J. Kokkonen, V-T. Kuokkala, **L. Olejnik** and A. Rosochowski: „Dynamic behavior of ECAP-processed aluminum at high strain rates at room and sub-zero temperatures”, in: Proceedings of the 11th International Congress and Exposition of the Society for Experimental Mechanics, **SEM2008**, June 2–5, 2008, Orlando, Florida, USA. [Conf.Proc.], paper No.164, pp.1-8

54 [29] A. Rosochowski, **L. Olejnik**: „Finite element analysis of two-turn Incremental ECAP”. International Journal of Material Forming (2008) Suppl 1: pp.483–486

53 [28] S. Geißdörfer, A. Rosochowski, **L. Olejnik**, U. Engel, M. Richert: „Micro-extrusion of ultrafine grained copper”. 11th **Esaform2008** conference on material forming. Lyon, France. 23, 24 and 25 April 2008, [Conf.Proc.] pp.1-4

52 referat L. Olejnik, A.Rosochowski: "Wytwarzanie nanokrystalicznych materiałów objętościowych i badanie ich właściwości". „Nanostructuring of bulk materials and testing their physical properties” 19.02.2008 Sympozjum GUM, Warszawa

2007

51 referat A. Rosochowski, L. Olejnik, S. Roginski, M. Richert: "Micro-EDM of UFG aluminium". Proc. of **4M 2007** 3rd Int. Conf. on Multi-Material Micro Manufacture, Borovets, Bulgaria, Oct 3–5, 2007, pp. 203-206 [Conf.Proc.]

50 [27] A. Rosochowski, **L. Olejnik**: "Finite element simulation of severe plastic deformation processes", Proceedings of the Institution of Mechanical Engineers, Part L, Journal of Materials: Design and Applications, 221/4 (2007), 187-196

49 referat A. Rosochowski, **L. Olejnik**: "Concept of a new SPD process of incremental ECAP" , **BNM'07** International Symposium on Bulk Nanostructured Materials; from fundamentals to innovations, 14–18 August 2007, Ufa, Russia

48 referat Z. Pakiela, P. Nowakowski, L. Olejnik and J. Mizera: "Mechanical properties and microstructure of 5483 Al alloy processed by ECAP" , **BNM'07** International Symposium on Bulk Nanostructured Materials; from fundamentals to innovations, 14-18 August 2007, Ufa, Russia

47 [26] **L.Olejnik**, J.Golinski, A. Rosochowski: „Problem wzajemnego oddziaływania wstępniaków w procesie ECAP z użyciem wzmacnianej matrycy". Przegląd Mechaniczny. LXVI(2007)7-8, str.37- 41 ISSN 0033-2259

46 referat Olejnik L., Rosochowski A.: "Nanostructuring - a new task for metal forming", **APE'07** 4th Int.Conf. On Advances in Production Engineering, 14 - 16 June 2007, Warsaw, Poland, [Conf.Proc.] edited by L.Dabrowski, Warsaw Univ. of Technology, Warsaw 2007, pp. 139-146 (ISBN: 978-83-916234-7-3)

45 referat Osmer J., Riemer O., Brinksmeier E., Rosochowski A., Olejnik L., Richert M.: Diamond Turning of Ultrafine Grained Aluminium Alloys. Proceedings of the 7th International Conference, **euspen 2007**, 20–24 May, 2007, Bremen, Germany, [Conf.Proc.] vol. 2, p.316-319

44 referat Olejnik L., Rosochowski A.: „Symulacja numeryczna procesów SPD – Numerical simulation of SPD processes". **FIMM'07**, Fizyczne i Matematyczne Modelowanie Procesów Obróbki Plastycznej, 17–19.05.2007, Jabłonna k/Warszawy. Zeszyty Naukowe Politechniki Warszawskiej MECHANIKA nr 216 (2007), pp.107-112

43 referat L.Olejnik, J.Golinski, A. Rosochowski: „Problem wzajemnego oddziaływania wstępniaków w procesie ECAP z użyciem wzmacnianej matrycy - Investigation of billet interaction during ECAP in prestressed dies". **FIMM'07**, Fizyczne i Matematyczne Modelowanie Procesów Obróbki Plastycznej, 17-19.05.2007, Jabłonna k/Warszawy. Zeszyty Naukowe Politechniki Warszawskiej MECHANIKA nr 216 (2007), pp.101-106

42, 6 BOOK [24] U.Engel, A.Rosochowski, S.Geißdörfer, **L.Olejnik**: "Microforming and Nanomaterials" in Advances in Material Forming, Esaform 10 years on, edited by F.Chinesta and E.Cueto, Springer-Verlag France, Paris 2007, pp. 99-124 (ISBN-13: 978-2-287-72142-7)

41 referat Rosochowski A., Olejnik L.: "FEM Simulation of Incremental Shear" (keynote presentation), 10th **ESAFORM** conference on material forming. Zaragoza, Spain, 18-20 April 2007. American Institute of Physics Conf.Proc. edited by E.Cueto and F.Chinesta Vol.907 (2007), pp.653-658 (ISBN: 978-0-7354-0414-4)

40, 5 BOOK [23] Rosochowski A., **Olejnik L.**, Richert M.: "3D-ECAP of square aluminium billets" in Advanced Methods in Material Forming, edited by D. Banabic, Springer (2007), pp. 215-232

39 [25] A.Rosochowski, W.Presz, **L.Olejnik**, M.Richert: "Micro-extrusion of ultra-fine grained aluminium", Int.J.Adv.Manuf.Technol. 33(2007)1-2, pp.137-146 International Journal Of Advanced Manufacturing Technology DOI 10.1007/s00170-007-0955-6

38 referat L.Olejnik, A.Rosochowski: „Wytwarzanie nanometali techniką SPD z użyciem technologii smarowania Chemetall", seminarium Chemetall Polska Sp. z o.o., Jachranka 5-6 czerwca 2007

2006

37 [21] Popov K.B., Dimov S.S., Pham D.T., Minev R.M., Rosochowski A., **Olejnik L.**: Micromilling: material microstructure effects. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Mechanical Engineering Science. (Proc.IMechE, Part B, Vol.220), 2006, (11), pp.1807-1813 *DOI: 10.1243/09544054JEM683*

36 referat Rosochowski A., Olejnik L.: "FEM simulation of SPD processes", Symposium on Modelling of Manufacturing Processes, **IMechE**, Structural Technology and Materials Group, 12 Dec. 2006, London, UK

35 referat A.Rosochowski, L.Olejnik, J.Gagne, N.Ladeveze, M.Rosochowska: "Compression behaviour of UFG aluminium". Proc. of the 9th Int. Conference on Material Forming **ESAFORM** 2006, Glasgow, United Kingdom, April 26-28, 2006, pp. 543-546 [Conf.Proc.]

34 referat K. Popov, S. Dimov, D.T. Pham, R. Minev, A. Rosochowski, L. Olejnik, M. Richert: "The effects of material microstructure in micro-milling". Proc. of **4M** 2006 Second International Conference on Multi-Material Micro Manufacture, 20-22 September 2006, Grenoble, France, Eds. W. Menz, B. Fillon, S. Dimov, Elsevier 2006, pp. 127-130 [Conf.Proc.]

33 [20] Rosochowski A., **Olejnik L**., Richert M.: "Channel configuration effects in 3D-ECAP". Materials Science Forum. Vols. 503-504 (2006), pp.179-184

2005

32 referat A.Rosochowski, W.Presz, L.Olejnik, M.Richert: "Micro-extrusion of UFG aluminium", Scotland-Taiwan Micronanotechnology workshop, The Royal Society of Edinburgh, 12 October 2005, Edinburgh, UK (2005)

31 [19] Rosochowski A., **Olejnik L**., Richert M.: „3D-ECAP of square aluminium billets". International Journal of Forming Processes. 8(2005)1, pp. 637-640

30 [18] **Olejnik L**., Rosochowski A.: „Methods of fabricating metals for nano-technology". Bull. Pol. Ac.: Tech. 53(2005)4, pp.413-423

29 referat Rosochowski A., Olejnik L., Richert M.: "Channel configuration effects in 3D-ECAP ". The 3rd International Conference on Nanomaterials by Severe Plastic Deformation (**NanoSPD3**). Fukuoka, Japan, September 22-26, 2005, pp.179-184. [Conf.Proc.]

28 referat A. Rosochowski, W. Presz, L. Olejnik, M. Richert: „Micro-extrusion of ultra-fine grain aluminium". In: Menz, W.; Dimov, S. (eds): **4M2005**, Proc. 1st Int. Conf. on Multi-Material Micro Manufacture (4M) Conference, Karlsruhe, Germany, June 29 – July 1, 2005. London: Elsevier 2005, pp. 161-164

27 referat A. Rosochowski, L. Olejnik, M. Richert: „3D-ECAP of square aluminium billets". 8th Int. **ESAFORM** conference on Material Forming 2005. Cluj-Napoca, Romania, April 27-29, 2005, pp. 637-640. [Conf.Proc.]

2004

26 [17] **L.Olejnik**, Z.Smoczyński: „Stopy aluminium jako materiały tiksotropowe", ZN WITPiS 66(2004)3, pp.46-75

25 [16] A. Rosochowski, **L. Olejnik**, Richert M.: " Metal forming technology for producing bulk nanostructured metals" The 10th Int.Conf. METAL FORMING, September 19-22, 2004, KRAKÓW, POLAND. [Conf.Proc.] - Steel GRISP 2(2004), pp.35-44 Suppl. Metal Forming 2004

24 referat A. Rosochowski, L. Olejnik, R. Balendra: "FEM analysis of two-turn equal channel angular extrusion of cylindrical billets". The 7th Int. conference on Material Forming **ESAFORM**'2004. Trondheim, Norway, April 28-30 2004 . [Conf.Proc.] pp. 207-210

2003

23 [15] **Olejnik L.**: "Materiały tiksotropowe - metody otrzymywania". Mechanik. (2003)7, 417-422

22, 4 BOOK [14] Kuczyński K., Erbel S., **Olejnik L.**: "Obróbka plastyczna. Laboratorium", Oficyna Wydawnicza Politechniki Warszawskiej. Warszawa 2003

2002

21 [13] **Olejnik L**., Krammer A.: "Electronic labelling in recycling of manufactured articles". Journal of Environmental Management. vol 66/4 (DEC/2002) pp 395-409

20 [12] Rosochowski A.,**Olejnik L**.: "Numerical and physical modelling of plastic deformation in 2-turn equal channel angular extrusion" Journal of Materials Processing Technology. 125-126 (2002), 309-316

2001

19 [11] **Olejnik L.**: "Preparation of Thixo-Material (Survey of Methods)". Technology of Light Alloys (2001)3, 22-29 [in russian]

18 [10] Kawka M., **Olejnik L**., Rosochowski A., Sunaga H., Makinouchi A.: "Simulation of wrinkling in sheet metal forming" J. of Materials Processing Technology 109(2001), 283-289

2000

17, [9] **Olejnik L.**: "PC-owanie w przemyśle" Przegląd Mechaniczny LIX(2000)8, s.25-27
16, [8] **Olejnik L.**: "Narzędzia szybkiej wymiany przyrządów". Przegląd Mechaniczny LIX(2000)3, s.11-19

Starsze publikacje

15, 3 BOOK [7] **Olejnik L.**, Smoczyński Z.: "Wyposażenie pomiarowe i badawcze akredytowanego laboratorium przemysłowego". Biuro Gamma. Warszawa **1999**. str.136, rys.20, tab.9 ISBN 83-87848-09-3

14 referat Olejnik L.: "Przygotowanie próby standardowej do oceny przydatności pakietów MES do analizy stanów niestatecznych". Program Priorytetowy Nowe Technologie, Prace Naukowe Politechniki Warszawskiej z. 2, W-wa **1999**, s.17-26

13 referat Olejnik L., Rosochowski A., Kawka M., Sunaga H., Makinouchi A.: "Experimental and numerical study of wrinkling during deep drawing of conical cups" 6th Int.Conf.on Technology of Plasticity. Nuremberg 19-24 Sept. [Conf.Proc.] Vol.3., pp.2105-2110 Ed. Geiger. Springer-Verlag Berlin **1999**

12, [6] **Olejnik L.**: "Techniki nadzorowania procesów technologicznych realizowanych przy użyciu pras" Przegląd Mechaniczny LVII(**1998**)23-24, s.30-39

11 referat Kawka M., Olejnik L., Rosochowski A., Sunaga H., Makinouchi A.:"Modelling wrinkling phenomena in sheet metal forming" International conference on advances in production engineering APE'98. Warsaw, 1-3 June **1998**. Proc.Conf. Part.I Editor L.Dabrowski [Conf.Proc.] pp. 129-138

10a referat L. Olejnik: „Automatic straightening of bars", Automatyzacja produkcji - Innowacje w technice i zarządzaniu AP'97. Wrocław 20-21 November **1997**. Prace Naukowe Instytutu Technologii Maszyn i Automatyzacji Politechniki Wrocławskiej. Nr 67 (**1997**). Seria: konferencje nr 29. Tom 2. s.147-150

10b referat L. Olejnik: „Monitorowanie procesu prostowania wałków". Metrologia Wspomagana Komputerowo MWK'97. Zegrze, 19 - 22 05.**1997**

9 referat L.Olejnik, E.Fugger: „Deflection controlled straightening of bars", The Baltic Sea Metal Forming and Cutting Seminar BAMFAC'97. 20-21 may **1997**, Warsaw. [Conf.Proc.] pp. 24/1-24/8

8, 2 BOOK [5] Olejnik L.: "Nadzorowanie zautomatyzowanych procesów obróbki plastycznej" OWPW Warszawa **1997**

7 referat A.Rosochowski, **L.Olejnik**: „Parameter selection in rotary forging", 11th National Conference on Manufacturing Research. De Montfort University, Leicester, 12-14 September **1995**. [Conf.Proc.] pp. 124-130

6, 1 BOOK [4] K.Chodnikiewicz, **L.Olejnik**: Automatic Supervision in metal forming. Chapter 6 in: "Automatic Supervision in Manufacturing". M.Szafarczyk (Ed.), Springer-Verlag, London, **1994**, pp.121-138. ISBN 3-540-19858-x

5 referat A.Rosochowski, L.Olejnik: „Computer Simulation of Forging on PXW Presses". 11th Conference on Design and Technology of Pressings and Forgings, Poznan, 19 May **1993**.

4 referat A.Rosochowski, L.Olejnik: „Upper Bound Modelling of Rotary Forging of Thin Discs on PXW Presses". Symposium on Modelling Metal Forming Processes, Warsaw, October **1992**

3 [3] A.Rosochowski, **L.Olejnik**: Damage evolution in mild steel. Int.J.Mech.Sci., 30 (**1988**), 51-60

2 [2] **L.Olejnik**, A.Rosochowski: Measurement of small density changes of solids. Obrobka Plastyczna, 27 (**1988**), 23-30

1 [1] **L.Olejnik**: Computer aided design of deep drawing processes. Mechanik 61(1988)10, 667-679

L.Olejnik: Influence of void growth on ductile fracture of mild steel. PhD Thesis, Warsaw University of Technology, Warsaw **1986**

K.Kuczynski, **L.Olejnik**: Cold forming of steel sleeve with flange. Reports of ITB (**1987**)1,37-40

L.Olejnik: Softening of cold worked mild steel. Reports of ITB (1987)1,76-78

L.Olejnik: Plastic dilatation in void containing mild steel and its influence on materials behavior. Archiwum Hutnictwa 31(**1986**)1,185-191

L.Olejnik, A.Rosochowski: Relative density change evolution and mechanical softening of a low carbon steel subjected to cold plastic deformation. Zesz.Nauk. AGH-Mechanika (**1986**)9,11-117

K.Kuczynski, **L.Olejnik**: Cold forming of steel part of high-voltage switch. Obrobka plastyczna 24(**1985**)1,11-21

L.Olejnik: The method of uniform plastic deformation at high level of tension stress. Prace ITB (**1983**)1,7-21

Nagrody naukowe

2015 Nagroda Rektora Politechniki Warszawskiej za osiągnięcia w dziedzinie naukowej - za osiągnięcia naukowe w roku 2014, indywidualna II stopnia

2010 Nagroda Rektora Politechniki Warszawskiej wręczana w czasie inauguracji roku akademickiego 2010/11, zespołowa II stopnia za osiągnięcia dydaktyczne w r.2009 –za uruchomienie przedmiotu obieralnego INAUP i przygotowanie pre-skryptu nt. automatyzacji pras

2009 Nagroda Rektora Politechniki Warszawskiej za osiągnięcia naukowe – za osiągnięcia naukowe w latach 2007-2008

1997 Nagroda Rektora Politechniki Warszawskiej za osiągnięcia dydaktyczne – za skrypt Nadzorowanie

1989 Software Fair Award for Deep Drawing CAE software

1988 The Production Engineering Faculty Advisory Council Award for Outstanding Ph.D. Dissertation

1986 Nagroda Rektora Politechniki Warszawskiej za osiągnięcia naukowe – proces kształtowania plastycznego elementów wyłącznika wysokiego napięcia