

LISTA DE LUCRĂRI CONFORM CRITERIILOR C.N.A.T.D.C.U PENTRU DOMENIUL INGINERIE INDUSTRIALĂ ȘI MANAGEMENT

1⁰ Teza de doctorat

T1. OLEKSIK Valentin Ștefan, *Cercetări teoretice și experimentale privind procedeul de deformare incrementală a tablelor metalice de fabricație indigenă*, Teză de doctorat, Domeniul Inginerie Industrială, Universitatea „Lucian Blaga” din Sibiu, 275 pag, conducător științific prof. univ. dr. ing. Octavian BOLOGA, 2005.

2⁰ Cărți publicate (Ca, Cb, Cc), îndrumare publicate (I1, I2 etc.), capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator funcționale etc. (D1, D2 etc.), după caz, prin care se aduc contribuții la asigurarea și perfecționarea activităților didactice/profesionale.

Ca1. OLEKSIK, V. *Procedee neconvenționale de deformare a tablelor: Deformarea incrementală*, Editura Universității „Lucian Blaga” din Sibiu, ISBN 978-606-12-1004-6, 2015.

Ca2. OLEKSIK, V., OLEKSIK, M. *Comportarea la solicitări mecanice a materialelor compozite laminare și de tip membrană*, Editura Universității „Lucian Blaga” din Sibiu, ISBN 978-606-12-1005-3, 2015.

Ca3. PASCU, A., OLEKSIK, V. *Calculul structurilor utilizând metoda elementului finit*, Editura Universității „Lucian Blaga” din Sibiu, ISBN 978-606-12-0719-0, 2014.

Ca4. AVRIGEAN, E., PASCU, A., OLEKSIK, V. *Analiza teoretică și experimentală a transmisiilor cardanice*, Editura Universității „Lucian Blaga” din Sibiu, ISBN 978-606-12-0652-0, 2014.

Ca5. FLEACĂ, R., OLEKSIK, V. *Studii biomecanice privind transplantul osteocondral autolog în leziunile cartilajului articular*, Editura Universității „Lucian Blaga” din Sibiu, ISBN 978-606-12-0562-2, 2013.

Ca6. FLEACĂ, R., OLEKSIK, V., ROMAN, M. *Elemente de chirurgie și analiză FEM a leziunilor cartilajului articular*, Editura Universității „Lucian Blaga” din Sibiu, ISBN 978-606-12-0561-5, 2013.

Ca7. GHEORGHE, I., BERCAN, N., OLEKSIK, V. *Culegere de probleme de mecanică. Dinamica*. Editura Universității „Lucian Blaga” din Sibiu, ISBN 978-606-12-0549, 2013.

Ca8. AVRIGEAN, E., PASCU, A., OLEKSIK, V. *Studii și cercetări asupra transmisiilor cardanice*, Editura Universității „Lucian Blaga” din Sibiu, ISBN 978-973-739-875-8, 2009.

Cb1. OLEKSIK, V. *Analize structurale soluționate prin metoda elementului finit*, Editura Universității „Lucian Blaga” din Sibiu, ISBN 978-606-12-1006-0, 2015

Cb2. OLEKSIK, V., PASCU A. *Proiectarea optimală a mașinilor și utilajelor*, Editura Universității „Lucian Blaga” din Sibiu, ISBN 978-973-739-431-6, 2007.

Cc1. OLEKSIK, V., TURCU, N., BIRIȘ, C. *Tehnologii și sisteme de prelucrare a materialelor plastice. Îndrumar de laborator*. Editura Universității „Lucian Blaga” din Sibiu, ISBN 978-606-12-1008-4, 2015

Cc2. OLEKSIK, V., BERCAN, N., GHEORGHE, I., *Vibrațiile mașinilor și utilajelor. Îndrumar de laborator*. Editura Universității „Lucian Blaga” din Sibiu, ISBN 978-606-12-1007-7, 2015

D1. BANU, M.,..., OLEKSIK, V. *Tratat de tehnologii neconvenționale. Vol. 12. Tehnologii neconvenționale de deformare plastică*, Sibiu, Editura Cisarom, ISBN 973-695-071-9, 2006

3⁰ Articole/studii publicate:

a) Reviste cotate ISI

- a1.)** ȘTEȚIU, A.A., OLEKSIK, V., ȘTEȚIU, M., BURLIBAȘA, M., TRĂISTARU, V., OANCEA, L., BERTEȘTEANU, S., IONESCU, I. Modelling and Finite Element Method in Dentistry, Romanian Biotechnological Letters, Volume 20, Issue 4, p. 10579-10584, ISSN 1224-5984, 2015 (Revista cotate ISI, factor de impact 0,381, SRI 0,115).
- a2.)** ȘTEȚIU, A.A., OLEKSIK, V., ȘTEȚIU, M., PETRUSE, R., BURLIBAȘA, M., CERNUȘCĂ-MIȚARU, M., IONESCU, I. Dimensioning Initial Preparation for Dental Incisal Reconstruction with Biomaterials, Romanian Biotechnological Letters, Volume 19, Issue 5, p. 9792-9800, ISSN 1224-5984, 2014 (Revista cotate ISI, factor de impact 0,381, SRI 0,115).
- a3.)** FLEACĂ, R., OLEKSIK, V., PASCU, A., CERNUȘCĂ-MIȚARU, M., ROMAN, M. Properties and Behaviour of Distal Femur to Axial Loading in Osteochondral Autologous Transplantation, Romanian Biotechnological Letters, Volume 19, Issue 2, p. 9141-9147, ISSN 1224-5984, 2014 (Revista cotate ISI, factor de impact 0,381, SRI 0,115).
- a4.)** BLAGA, A., OLEKSIK, V. A Study on the Influence of the Forming Strategy on the Main Strains, Thickness Reduction, and Forces in a Single Point Incremental Forming Process, Advances in materials science and engineering, Volume 2013, ISSN 1687-8434, Article ID 382635, p. 10, DOI: 10.1155/2013/382635 (Revista cotate ISI, factor de impact 1.01, scor relativ de influență 0)
- a5.)** ȘTEȚIU, A.A., OLEKSIK, M., OLEKSIK, V., PETRUSE, R., ȘTEȚIU, M., The minimal burr dimensioning of teeth preparations to be restored with biomaterials, Romanian Biotechnological Letters, Volume 18, Issue 3, p. 8381-8389, ISSN 1224-5984, 2013 (Revista cotate ISI, factor de impact 0,381, SRI 0,115).
- a6.)** ȘTEȚIU, A.A., OLEKSIK, M., OLEKSIK, V., ȘTEȚIU, M., BURLIBASA, M. Mechanical behavior of composite materials for dental obturations, Romanian Biotechnological Letters, Volume 18, Issue 4, p. 8528-8538, ISSN 1224-5984, 2013 (Revista cotate ISI, factor de impact 0,381, SRI 0,115).
- a7.)** FRĂȚILĂ, A., OLEKSIK, V., BOITOR, C., PASCU, A., PÎRVU, B. Numerical study about the strain analysis and the marginal design of dental indirect restorations, Romanian Biotechnological Letters, Volume 17, Issue 4, pp. 7474-7482, 2012 (Revista cotate ISI, factor de impact 0,381, SRI 0,115).
- a8.)** OLEKSIK, V., PASCU, A., MARA, D., BOLOGA, O., RACZ, G., BREAZ, R. Experimental research about the influence of geometric parameters on strain and thinning distribution of the incremental forming process. Steel Research International, Willey-VCH Verlag GmbH & Co., ISSN 1611-3683, Vol. 81, No. 9, 2010, p. 930-933. (scor relativ de influență 1.33, factor de impact 1.02)
- a9.)** OLEKSIK, V., PASCU, A., DEAC, C., FLEACĂ, R., BOLOGA, O., RACZ, G. Experimental study about the surface quality of the medical implants obtained by incremental forming. International Journal of Material Forming, Springer-Verlag France, Vol. 3, Suppl. 1, 2010,

- ISSN 1960-6206, DOI 10.1007/s12289-010-0922-x, p. 935-938 (scor relativ de influență 1.06, factor de impact 1.24)
- a10.) OLEKSIK, V., BOLOGA, O., BREAZ, R. RACZ, G., GĂVRUȘ, A.** Numerical simulations and experimental researches regards the precision of the incremental forming process. *Steel Research International*, No. 79 (2008), Special Edition, Volume 1, Publishing Company: Verlag Stahleisen Gmbh, ISBN 978-3-514-00754-3, pp. 591-594, 2008. (scor relativ de influență 1.33, factor de impact 1.02)
- a11.) OLEKSIK, V., BOLOGA, O., BREAZ, R. RACZ, G.** *Comparison between the numerical simulations of incremental sheet forming and conventional stretch forming process.* The 11th ESAFORM Conference on Material Forming, 23-25 April 2008, Lyon, France, Published in *International Journal of Material Forming*, ISSN 1960-6206 (Print) 1960-6214 (Online), Springer Paris doi: 10.1007/s12289-008-0153-6, Vol. 1 (2008), Supplement 1, paper 433, pp. 1187-1190, 2008. (scor relativ de influență 1.06, factor de impact 1.24)
- a12.) GAVRUS, A., BANU, M., RAGNEAU, E., MAIER, C., OLEKSIK, V.** *An inverse analysis approach of the Erichsen test starting from a finite element model.* The 11th ESAFORM Conference on Material Forming, 23-25 April 2008, Lyon, France, Published in *International Journal of Material Forming*, ISSN 1960-6206 (Print) 1960-6214 (Online), Springer Paris doi: 10.1007/s12289-008-0153-6, Vol. 1 (2008), Supplement 1, paper 435, pp. 5-8, 2008. (scor relativ de influență 1.06, factor de impact 1.24)
- a13.) FLEACĂ, R., ROMAN, M., OLEKSIK, V., PASCU, A., DEAC, C., BAIER, I.** Biomechanical analysis of the relationship between the plug and the deep of the receiving tunnel in autologous osteochondral transplantation, 14th ESSKA Congres, June 9-12, 2010, Oslo, Abstract Published on *Knee Surgery Sports Traumatology Arthroscopy*, Springer-Verlag Berlin Heidelberg 2010, Vol. 18, Supplement 1, June 2010, ISSN 0942-2056, p.248-249. **(REZUMAT)**
- a14.) FLEACĂ, R., ROMAN, M., OLEKSIK, V., PASCU, A., DEAC, C., BAIER, I., STANCIU, T.** Comparative analysis by finite element method on a theoretical model between 6 mm and 8 mm diameter plug osteochondral autologous transplantation, 14th ESSKA Congres, June 9-12, 2010, Oslo, Abstract Published on *Knee Surgery Sports Traumatology Arthroscopy*, Springer-Verlag Berlin Heidelberg 2010, Vol. 18, Supplement 1, June 2010, ISSN 0942-2056, p.258-259. **(REZUMAT)**
- a15.) ROMAN M., FLEACĂ R., OLEKSIK V., PASCU A., DEAC C., COFARU N., BAIER I.** ACL reconstruction with STG grafts - hybrid tibial fixation – biomechanical study. 14th ESSKA Congres, June 9-12, 2010, Oslo, Abstract Published on *Knee Surgery Sports Traumatology Arthroscopy*, Springer-Verlag Berlin Heidelberg 2010, Vol. 18, Supplement 1, June 2010, ISSN 0942-2056. **(REZUMAT)**
- a16.) ROMAN M., FLEACA R., COFARU N., OLEKSIK V., PASCU A., DEAC C., BAIER I., ROMAN CRISTINA** Partial lesions of the anterior cruciate ligament. 14th ESSKA Congres, June 9-12, 2010, Oslo, Abstract Published on *Knee Surgery Sports Traumatology Arthroscopy*, Springer-Verlag Berlin Heidelberg 2010, Vol. 18, Supplement 1, June 2010, ISSN 0942-2056 **(REZUMAT)**

b.) Articole susținute la conferințe indexate ISI Proceedings

- b1.) OLEKSIK, V.** Influence of geometrical parameters, wall angle and part shape on thickness reduction of single point incremental forming, The 11th International Conference on

- Technology of Plasticity – 2014, Nagoya, Japan, October 19-24, Published by Procedia Engineering, Elsevier, Vol. 81 (2014), p. 2280-2285, 2014, doi: 10.1016/j.proeng.2014.10.321 (ISI Proceedings, conferință indexată ERA în clasa A).
- b2.)** PASCU, A., **OLEKSIK, V.**, BONDREA, I., ROȘCA, L. Inverse analysis used to determine plastic flow and tribological characteristics for deep-drawing sheet, The 11th International Conference on Technology of Plasticity – 2014, Nagoya, Japan, October 19-24, Published by Procedia Engineering, Elsevier, Vol. 81 (2014), p. 1823-1829, 2014, doi: 10.1016/j.proeng.2014.10.240 (ISI Proceedings, conferință indexată ERA în clasa A).
- b3.)** OLEKSIK, M., **OLEKSIK, V.** Experimental Studies Regarding the Mechanical Behaviour of Silicon-Coated and Uncoated P.A. 6.6 Fabrics, Published by Applied Mechanics and Materials, Trans Tech Publications Switzerland, Vol. 657, 2014, DOI: 10.4028/www.scientific.net/AMM.657.377, p. 377-381. (ISI Proceedings).
- b4.)** AVRIGEAN, E., PASCU, A., **OLEKSIK, V.** Experimentally Testing the Polyethylene Pipes upon Being Strained with the Squeeze - Off Tool, Proceedings of the 2015 International Conference on Sustainable Energy and Environmental Engineering (SEEE 2015), Bangkok, Thailand, Book series Advances in Engineering Research, Vol. 14, p. 159-163, (ISI Proceedings).
- b5.)** AVRIGEAN, E., **OLEKSIK, V.**, PASCU, A. Experimental Determining of Mechanical and Elastic Characteristics for the Material used in the Manufacturing of Cardan Crosses, Published by Applied Mechanics and Materials, Trans Tech Publications Switzerland, Vol. 657, 2014, DOI: 10.4028/www.scientific.net/AMM.657.427, p. 427-431. (ISI Proceedings).
- b6.)** **OLEKSIK, V.**, PASCU, A., ROSCA, L., BONDREA, I. Numerical-Experimental Comparison Study Regarding Single Point Incremental Forming Process, Proceedings of the 11th International Conference on Numerical Methods in Industrial Forming Processes (Numiform 2013), Chinese Acad Sci (CAS), Inst Met Res, Shenyang, Peoples Republic of China, 06-10 July, 2013, Published by American Institute of Physics, Vol. 1532, 2013, ISBN: 978-0-7354-0799-2, p. 532-537, DOI: 10.1063/1.4806872. (ISI Proceedings, **conferință ERA clasa A**)
- b7.)** OLEKSIK, M., **OLEKSIK, V.** Application of the Inverse Analysis for Determining the Material Properties of the Woven Fabrics for Macroscopic Approach, Proceedings of the 11th International Conference on Numerical Methods in Industrial Forming Processes (Numiform 2013), Chinese Acad Sci (CAS), Inst Met Res, Shenyang, Peoples Republic of China, 06-10 July, 2013, Published by American Institute of Physics, Vol. 1532, 2013, ISBN: 978-0-7354-0799-2, p. 1002-1006, DOI: 10.1063/1.4806943 (ISI Proceedings, **conferință ERA clasa A**)
- b8.)** **OLEKSIK, V.**, PASCU, A., AVRIGEAN, E., BONDREA, I. Theoretical and Experimental Studies on the Influence of Process Parameters on Strains and Forces of Single Point Incremental Forming, Proceedings of the 16th International Conference on Advances in Materials & Processing Technologies, Taiwan, 22-26 september 2013, Published by Advanced Materials Research, Trans Tech Publications Switzerland, Vol. 939, 2014, p. 367-372, DOI:10.4028/www.scientific.net/AMR.939.367, (ISI Proceedings, **conferință ERA clasa A**)
- b9.)** OLEKSIK, M., COFARU, N., **OLEKSIK, V.** Experimental Studies Regarding Mechanical Behaviour of Textile Reinforcements Laminated Composite Materials, Applied Mechanics and Materials, Volume 371, 2013, DOI: 10.4028/www.scientific.net/AMM.371.348, p. 348-352. (ISI Proceedings).
- b10.)** TERA, M., DEAC, C., **OLEKSIK, V.**, BOLOGA, O., **OLEKSIK, V.**, BIRIȘ, C. Comparative Study by Numerical Analysis on the Formability of Deep-Drawn Tailor-Welded Blanks, 2nd International Conference on Advanced Material Research (ICAMR 2012), Chengdu, CHINA, published in Advanced Materials Research II, Parts 1 and 2, Volume 463-464, 2012 DOI: 10.4028/www.scientific.net/AMR.463-464.582, pp. 582-586.

- b11.)** GLIGOR, A., **OLEKSIK, V.**, PETRESCU, V., DEAC, C. Using the finite element method in teaching students about the phenomena occurring at the flow of methane gas through pipes and faucets, International Conference on Engineering & Business Education, Innovation and Entrepreneurship, Sibiu, Romania, 18 - 21 October, 2012, ISBN: 978-606-12-0369-7, ISSN 1843-6730 pp. 623 -626, (ISI Proceedings).
- b12.)** **OLEKSIK, V.**, PASCU, A., DEAC, C., FLEACĂ, R., ROMAN, M. BOLOGA, O. The influence of geometrical parameters on the incremental forming process for knee implants analyzed by numerical simulation – Proceedings of the 10th International Conference on Numerical Methods in Industrial Forming Processes (Numiform 2010), Published by American Institute of Physics, No. 1252, Vol. 1, 2010, ISBN: 978-0-7354-0799-2, p. 1208-1215 (ISI Proceedings), conferință indexată ERA în clasa A.
- b13.)** BREAZ, R.E., BOLOGA, O.C., RACZ, G.S., **OLEKSIK, V.**, GIRJOB, C., Simulation approach for improving CNC milling machines accuracy for single axis motion, ISIE 2010, 2010 IEEE International Symposium on Industrial Electronics, Bari, Italy, 4-7 July 2010, pp. 1760 - 1764, ISBN 978-1-4244-6390-9, 2010, (ISI Proceedings).
- b14.)** **OLEKSIK, V.**, PASCU, M., DEAC, C., FLEACĂ, R., ROMAN, M. Experimental strain field distribution in ankle-foot orthosis (AFO). Proceedings of the 2nd WSEAS International Conference on Biomedical Electronics and Biomedical Informatics, Moscow, Rusia, 22-25 August 2009, ISSN: 1790-5125, ISBN: 978-960-474-110-6, p. 94-98, (ISI Proceedings).
- b15.)** PASCU, A., **OLEKSIK, V.**, PÎRVU, B., FRĂȚILĂ, A., IONAȘ, M., BOITOR, C. Modern methods of study and research in mechanical engineering applied to medicine. 5th Balkan Region Conference on Engineering and Business Education & 2nd International Conference on Engineering and Business Education, Sibiu, Romania, 15 - 17 October, 2009, ISBN: 978-973-739-848-2, p. 249 -254, (ISI Proceedings).
- b16.)** TERA, M., BOLOGA, O., **OLEKSIK, V.**, BIRIȘ, C. Study Regarding the Numerical Simulation of the Deep Drawing Process for Tailor Welded Blanks. The 20th DAAAM International World Symposium, 25-28 November 2009, Vienna, Austria, ISSN 1726-9679, p. 63-64, (ISI Proceedings)
- b17.)** PASCU, A., **OLEKSIK, V.**, CURTU, I., AVRIGEAN, E. Determination of Forces at the Bending of Perforated Plates with Slotted Holes through Experimental and FEM. The 20th DAAAM International World Symposium, 25-28 November 2009, Vienna, Austria, ISSN 1726-9679, p. 799-800, (ISI Proceedings).
- b18.)** PASCU, A., **OLEKSIK, V.**, CURTU, I., AVRIGEAN, E. Stress and Strain Field Distribution in Ankle-Foot Orthosis (AFO) using FEM. The 20th DAAAM International World Symposium, 25-28 November 2009, Vienna, Austria, ISSN 1726-9679, p. 801-802, (ISI Proceedings).
- b19.)** BREAZ, R.E., BOLOGA, O., BIRIS, CRISTINA, RACZ, G., GIRJOB, CLAUDIA, **OLEKSIK, V.**, *Method for Improving the Contouring Accuracy for CNC Profiling Machines at the Shop Floor Level*, The 7th IEEE International Conference on Industrial Informatics, INDIN 2009, 24-26 iunie 2009, Cardiff, Marea Britanie, ISBN 978-1-4244-3760-3, ISSN 1935-4576, IEEE Catalog Number: CFP09INI-CDR,
- b20.)** COFARU, N., **OLEKSIK, V.**, PASCU, A. *Finite element simulations regard different alternatives of the single point incremental forming process*. Proceedings of the 1st Wseas International Conference on Visualization, Imaging and Simulation (VIS'08), Bucharest, Romania, November 7-9, ISSN 1790-2769, ISBN 978-960-474-022-2, pg. 167-172, 2008, (ISI Proceedings).
- b21.)** BREAZ, R.E., BOLOGA, O., RACZ G., **OLEKSIK, V.**, *Motion Control Systems for Machine Tools – a Mechatronic Approach by Means of Simulation*, IEEE International Symposium on Industrial Electronics, June 30 – July 2 2008, Cambridge, United Kingdom, ISBN 978-1-4244-

- 1666-0, IEEE Catalog Number: CFP08ISI-CDR, Library of Congress: 2007936380, 2008, (ISI Proceedings).
- b22.) OLEKSIK, V., BOLOGA, O., RACZ, G., BREAZ, R.** Numerical Simulations and Experimental Researches for Determining the Forces of Incremental Sheet Forming Process. Proceedings of the 10th ESAFORM Conference on Material Forming, 18-20 April 2007, Zaragoza, Spain, Published in American Institute of Physics, ISBN 978-0-7354-0414-4, pp. 245-251, 2007, (ISI Proceedings).
- b23.) BREAZ, R.E., BOLOGA, O., OLEKSIK, V., RACZ G.** *Computer Simulation for the Study of CNC Feed Drives Dynamic Behavior and Accuracy*, The IEEE Region 8 EUROCON 2007, International Conference on “Computer as a tool” Warsaw University of Technology, Warsaw, Poland, September 9-12, doi: 10.1109/EURCON.2007.4400575, pp. 2229-2233, 2007, (ISI Proceedings).
- b24.) BREAZ, R.E., OLEKSIK, V., BOLOGA, O.** *Mechatronic Contouring System for Unconventional Sheet Metal Forming*, Proceedings of The 32nd Annual Conference of the IEEE Industrial Electronics Society IECON’06, Paris, France, ISSN 1553-572X, ISBN 1-4244-0136-4, pp. 4026-4029, November 7-10, doi: 10.1109/IECON.2006.347370, 2006 (IEEE Catalog Number 06CH37763C), (ISI Proceedings).

c.) Articol publicat în reviste indexate BDI

- c1.) OLEKSIK, V., PASCU, A., BONDREA, I., AVRIGEAN, E. ROȘCA, L.** Comparative study for springback prediction on single point incremental forming process, Metal Forming 15th International Conference, Palermo, September 2014, Published by Key Engineering Materials, Trans Tech Publications Switzerland, Vol. 622-623, 2014, p. 375-381, DOI:10.4028/www.scientific.net/KEM.622-623.375, (ISI Proceedings, **conferința ERA clasa A**).
- c2.) GLIGOR, A., OLEKSIK, V., DEAC, C., PETRESCU, V.** CFD study on eliminating impurities from natural gas flows in cyclone-type separators, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Vol. XXIII (XIII), Issue 1, 2014, ISSN 1583- 0691, p. 311-314.
- c3.) AVRIGEAN, E., PASCU, A., OLEKSIK, V.** Study of the Cardan Cross Using the Experimental and Analytical Method, Published by Procedia Engineering, Elsevier, Vol. 100 (2015), p. 499-504, 2015, doi:10.1016/j.proeng.2015.01.396
- c4.) OLEKSIK, M., DEAC, C., PASCU, A., OLEKSIK, V.** Comparative study regarding the mechanical properties of silicon-coated and uncoated nylon 6.6 fabrics, Academic Journal of Manufacturing Engineering, Vol. 11 (2013), Issue 1, ISSN 1583-7904, p. 84-89.
- c5.) OLEKSIK, M., COFARU, N., DEAC, C., OLEKSIK, V.** Study on the influence of the temperature and strain rate on the behavior of polyamide 6.6 at the uniaxial tensile test, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Vol. XXII (XII), Issue 1, 2013, ISSN 1583- 0691, p. 245-248.
- c6.) CIUPE, I., OLEKSIK, V., PASCU, A.,** Experimental study of the crushing behaviour of high density polyethylene pipes. Petroleum - Gas University of Ploiesti Bulletin, Technical Series, vol. LXIV, no. 4/2012, p. 81-88, ISSN 1224-8495 (B+, Ebsco).
- c7.) OLEKSIK, M., PASCU, A., OLEKSIK, V.,** Using finite element method to study the behaviour under uniaxial traction of different types of weaves. Petroleum - Gas University of

- Ploiesti Bulletin, Technical Series, vol. LXIV, no. 4/2012, p. 45-50, ISSN 1224-8495 (B+, Ebsco).
- c8.) BREAZ, R., RACZ, G., BOLOGA, O., **OLEKSIK, V.**, Motion Control of Medium Size CNC Machine-Tools - A Hands-on Approach, the 7th IEEE Conference on Industrial Electronics and Applications (ICIEA 2012), Singapore, July 18-20 2012, ISBN 978-1-4577-2118-2, pp. 2112 – 2117, 2012, (**ERA categoria A**)
- c9.) BLAGA, A., BOLOGA, O., **OLEKSIK, V.**, PÎRVU, B. Experimental researches regarding the influence of geometric parameters on the principal strains and thickness reduction in single point incremental forming. UPB Scientific Bulletin, Series D: Mechanical Engineering Volume 74, Issue 2, 2012, ISSN 1454-2358, pp. 111-120 (Scopus, Scholar Google).
- c10.) PASCU, A., **OLEKSIK, V.**, FLEACĂ, R., ROMAN, M., DEAC, C., **OLEKSIK, M.** Experimental study on the behavior of osteochondral cylinders transplanted at the femoral condyle in the case of autologous osteochondral transplant. Petroleum - Gas University of Ploiesti Bulletin, Technical Series, vol. LXIII, no. 1/2011, p. 107-116, ISSN 1224-8495 (B+, Ebsco).
- c11.) BLAGA, A., **OLEKSIK, V.**, BOLOGA, O., PÎRVU, B. Influence of geometric parameters on forces in single point incremental forming process for various parts, The Annals Of “Dunărea De Jos” University Of Galați, Fascicle XIV, Mechanical Engineering, ISSN 1224-5615, 2011, p.33-38 (B+)
- c12.) BLAGA, A., BOLOGA, O., **OLEKSIK, V.**, RACZ, G. Influence of geometric parameters on the main deformations, relative thinning and forces in single point incremental forming for dome parts, Bulletin of the Polytechnic Institute of Iași, Vol. LVII(LXI), Fascicle 4, Machine Constructions, 2011, p. 9-18 (B+).
- c13.) BLAGA, A., **OLEKSIK, V.**, BOLOGA, O., BREAZ, R. Experimental studies and FEM analysis regarding the forming forces in single point incremental forming process for various parts, Bulletin of the Polytechnic Institute of Iași, Vol. LVII(LXI), Fascicle 4, Machine Constructions, 2011, p. 19-34, (B+).
- c14.) BLAGA, A., **OLEKSIK, V.**, BOLOGA, O., BREAZ, R. Experimental Studies and FEM Analysis Regarding the Influence of Geometric Parameters on Strain, Thickness Reduction and Forces in Incremental Forming Process, Analele Universității “Eftimie Murgu” Reșița Anul XVIII, Nr. 3, 2011, ISSN 1453 – 7397, p. 43-54. (B+).
- c15.) BLAGA, A., BOLOGA, O., **OLEKSIK, V.**, BREAZ, R. Influence of tool path on main strains, thickness reduction and forces in single point incremental forming process, Journal Proceedings in Manufacturing Systems (ICMaS 2011), Vol. 6, Issue 4, 2011, ISSN 2067-9238p. 191-196. (IndexCopernicus, Scholar Google).
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4^o Proiecte de cercetare-dezvoltare-inovare:

- Pn1.** *Analiza teoretică și experimentală a comportării statice și dinamice a grefelor în transplantul osteocondral autolog*, Beneficiar: C.N.C.S.I.S.-U.E.F.I.S.C.S.U., PNII-Idei Proiecte de cercetare exploratorie, Nr. contract 698/19.01.2009 (2009-2011), valoare contract: 737.200 RON – **Director;**
- Pn2.** *Dezvoltarea unei metode de studiu a comportării plastice a materialelor prin analiză inversă*, cod C.N.C.S.I.S., Nr. 375/2003, 2003-2004, valoare contract: 13.375 RON Beneficiar: Consiliul Național al Cercetării Științifice din Învățământul Superior, - **Director;**
- Pn3.** *Studiu privind tehnologia de presare incrementală a materialelor compozite*, cod A.N.S.T.I., Nr. 6229/2000, tema B1, 2000-2001, valoare contract: 9000 RON Beneficiar: Agenția Națională de Știință și Inovare - **Director;**
- Pn4.** *Tehnologii avansate de încălzire rapidă în infraroșu a matrițelor pentru prelucrare la cald*, CEEX Nr. 217/2006, A.M.C.S.I.T. – Universitatea „Politehnica” din București, 2006-2008, Beneficiar: Agenția Managerială de Cercetare Științifică, Inovare și Transfer Tehnologic, – **Membri în colectivul de cercetare;**
- Pn5.** *Studii și cercetări privind optimizarea presării unor materiale ușoare*, Nr. grant 27657/2005, tip A, cod C.N.C.S.I.S. Nr. 752/2005, 2005-2006, Beneficiar: Consiliul Național al Cercetării Științifice din Învățământul Superior, – **Membri în colectivul de cercetare;**
- Pn6.** *Materiale, tehnologii și echipamente pentru profilări plane și spațiale – MATEPROF*, CEEX Nr. 130/2006, A.M.C.S.I.T. – Universitatea „Politehnica” din București, 2006-2008, Beneficiar:

Agenția Managerială de Cercetare Științifică, Inovare și Transfer Tehnologic, – **Membru în colectivul de cercetare;**

Pn7. *Metode de modelare, simulare și producție virtuală bazată pe tehnologia informației și comunicării dedicată noii generații de sisteme de prelucrare reconfigurabile*, CEEEX Nr. 22/2005 – INFOSOC București, 2005-2007, Beneficiar: INFOSOC, – **Membru în colectivul de cercetare;**

Pn8. *Modernizarea mașinilor de rectificat și ascuțit din fabricația și exploatarea partenerilor industriali prin echiparea cu sisteme cu comandă numerică*, RELANSIN Nr. 1841 / 2003 – A.M.C.S.I.T. – Universitatea „Politehnica” din București, 2003-2004, Beneficiar: Agenția Managerială de Cercetare Științifică, Inovare și Transfer Tehnologic, – **Membru în colectivul de cercetare;**

Pn9. *Sisteme inteligente de prelucrare prin deformare plastică la rece în construcție modulară – SINTDEF*, CEEEX, A.M.C.S.I.T. – Universitatea „Politehnica” din București, Nr. 24/ 2005-2007, Beneficiar: Agenția Managerială de Cercetare Științifică, Inovare și Transfer Tehnologic, – **Membru în colectivul de cercetare;**

Pn10. *Configurarea unui laborator de cercetare în domeniul sistemelor flexibile de prelucrare prin presare*, cod A.M.C.S.I.T., Nr. 1365/2001, 2001-2003, Beneficiar: Agenția Managerială de Cercetare Științifică, Inovare și Transfer Tehnologic, – **Membru în colectivul de cercetare;**

Pn11. *Dezvoltarea unui program complex de pregătire postuniversitară prin doctorat în domeniul materialelor, tehnologiilor și a echipamentelor pentru prelucrări prin deformare plastică*, cod C.N.C.S.I.S, Tip D, Nr. 21/1998, 1998-2001, Beneficiar: Banca Mondială și Guvernul României, – **Membru în colectivul de cercetare;**

Pn12. *Cercetări privind prelucrabilitatea unor materiale indigene prin deformare volumică radial-rotativă*, cod C.N.C.S.I.S, Nr. 737/1997, 1997-1999, Beneficiar: Consiliul Național al Cercetării Științifice din Învățământul Superior, – **Membru în colectivul de cercetare;**

Pn13. *Studii și cercetări privind tehnologiile moderne de deformare plastică a tablelor subțiri în pachet și posibilitățile implementării acestora în industria românească*, Ministerul Educației și Cercetării, cod Nr. 1309/1997, B1, 1997-1999, Beneficiar: Ministerul Educației și Cercetării – **Membru în colectivul de cercetare;**

Pn14. *Generarea suprafețelor tehnice prin deformare plastică la rece cu bile și role: dezvoltare și implementare industrială*, Ministerul Educației și Cercetării, cod Nr. 1309/1996, A2, 1996-1999, Beneficiar: Ministerul Educației și Cercetării – **Membru în colectivul de cercetare;**

Pn15. *Studii și cercetări privind ambutisarea în condiții de solicitare neconvențională a materialului semifabricatului*, cod C.N.C.S.I.S, Nr. 5032/1082, 1994-1996, Beneficiar: Ministerul Educației Naționale – **Membru în colectivul de cercetare;**

Pn16. *Dezvoltarea infrastructurii de cercetare a unui laborator pentru testarea materialelor avansate utilizate în producția de caroserii auto (TESTMAT)*, PNCDII – Programul 2 – Capacități 124 CPI/2007, 2007-2008, Beneficiar: Autoritatea Națională pentru Cercetare Științifică, **Membru în colectivul de cercetare.**

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