

LISTA DE LUCRĂRI

A. Teza de doctorat

1. **Pascu Adrian (2005):** *Cercetări privind solicitările structurilor de tip plasă și plăci perforate realizate din diferite materiale (Researches regarding structure stress of mesh type structures and strainer plates build of various materials)* Universitatea "Transilvania" din Brașov, conducător științific Prof. dr. ing. Ioan Curtu

B. Cărți și capitole în cărți (publicate în edituri recunoscute CNCSIS)

1. **Pascu Adrian, Oleksik Valentin (2014):** *Calculul structurilor utilizând metoda elementului finit*, Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-606-12-0719-0, 494 pag.
2. Frățilă Marcu, Vasiloaica Constantin, **Pascu Adrian, Avrigean, Eugen (2012):** *Rezistența materialelor – Lucrări de laborator*. Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-606-12-0384-0, 140 pag.
3. Ion Gheorghe, Nicolae Bercan, **Pascu Adrian (2010):** *Culegere de probleme de mecanică (Statică)*, Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-606-12-0046-7, 420 pag.
4. Avrigean Eugen, **Pascu Adrian, Oleksik Valentin (2009):** *Studii și cercetări asupra transmisiilor cardanice*, Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-973-739-875-8, 204 pag.
5. **Pascu Adrian (2008):** *Rezistența materialelor*, Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-973-739-700-3, 431 pag.
6. Oleksik Valentin, **Pascu Adrian (2007):** *Proiectarea optimală a mașinilor și utilajelor*, Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-973-739-431-6, 296 pag.

C. Articole publicate în reviste de specialitate

C1. Articole publicate în reviste de cotate ISI THOMSON / ISI Proceedings

1. Fleacă Radu, Oleksik Valentin, **Pascu Adrian, Cernușcă-Mițaru Mihaela, Roman Mihai (2014):** *Properties and Behaviour of Distal Femur to Axial Loading in Osteochondral Autologous Transplantation*. Romanian Biotechnological Letters, vol. 19, Issue 2, (March - April 2014), pag.9141-9147, ISSN 1224-5984 (factor de impact 0.363, scor relativ de influență 0.115). http://www.rombio.eu/vol19nr2/6_19_2_2014%20Fleaca%20rec%204%20dec%202013.pdf
2. Frățilă Anca, Oleksik Valentin, Boitor Cornel, **Pascu Adrian, Bogdan Pîrvu (2012):** *Numerical study about the strain analysis and the marginal design of dental indirect restorations*. Romanian Biotechnological Letters, vol. 17, Issue 4, (jul. - aug. 2012), pag.7474-7482, ISSN 1224-5984 (factor de impact 0.363, scor relativ de influență 0.115). <http://www.rombio.eu/rbl4vol17/9%20Fratila.pdf>
3. G.P. Potirniche, **A. Pascu, N. Shoemaker, P.T. Wang, M.F. Horstemeyer, D. Stillman, T.-L. Lin (2011):** *A visco-hyperelastic model for the termo-mechanical behavior of polymer fibers*. International Journal of Damage Mechanics, vol. 20, Issue 7, 2011, pag. 1002-1020, ISSN 1056-7895 (factor de impact 1.928, scor relativ de influență 1.060). DOI: [10.1177/1056789510370394](https://doi.org/10.1177/1056789510370394)
4. Yibin Xue, **Adrian Pascu, Mark Horstemeyer, Liang Wang, Paul Wang (2010):** *Microporosity effects on cyclic plasticity and fatigue of LENSTM - processed steel*. Acta Materialia, vol. 58, Issue 11, 2010, pag. 4029-4038, ISSN 1359-6454 (factor de impact 3.781, scor relativ de influență 10.827). DOI: [10.1016/j.actamat.2010.03.014](https://doi.org/10.1016/j.actamat.2010.03.014)
5. Oleksik Valentin, **Pascu Adrian, Mara Daniel, Bologna Octavian, Racz Gabriel, Breaz Radu (2010):** *Influence of geometric parameters on strain and thickness reduction in incremental forming process*. Steel Research International, vol. 81, no. 9, 2010, pag. 930-933 (factor de impact 0.453, scor relativ de influență 1.372).

- Oleksik Valentin, **Pascu Adrian**, Deac Cristian, Bologa Octavian, Racz Gabriel (2010): *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, pag. 935-938, ISSN 1960-6206, [DOI: 10.1007/s12289-010-0922-x](https://doi.org/10.1007/s12289-010-0922-x), (factor de impact 0.509, scor relativ de influență 0.865)

C2. Articole susținute la conferințe indexate ISI Proceedings

- Adrian Pascu**, Valentin Oleksik, Ioan Bondrea, Liviu Roșca (2014): *Inverse analysis used to determine the plastic flow and tribological characteristics for deep-drawing sheet*. 11th International Conference on Technology of Plasticity, ICTP 2014, 19-24 October 2014, Nagoya, Japan, Procedia Engineering, volume 81, 2014, ISSN 1877-7058, pag. 1823-1829. [doi:10.1016/j.proeng.2014.10.240](https://doi.org/10.1016/j.proeng.2014.10.240) (ISI Conference Proceedings)
- Valentin Oleksik, **Adrian Pascu**, Ioan Bondrea, Eugen Avrigean, Liviu Roșca (2014): *Comparative study for springback prediction on single point incremental forming process*. 15th Conference on Metal Forming, 21-24 September 2014, Palermo, Italy.
- Oleksik Valentin, **Pascu Adrian**, Roșca Liviu, Bondrea Ioan (2013): *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, pag. 532-537, [DOI: 10.1063/1.4806872](https://doi.org/10.1063/1.4806872) (ISI Conference Proceedings, conferință ERA clasa A)
- Oleksik Valentin, **Pascu Adrian**, Avrigean Eugen, Bondrea Ioan (2013): *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 (ISI Conference Proceedings, conferință ERA clasa A)
- Oleksik Valentin, **Pascu Adrian**, Deac Cristian, Fleacă Radu, Roman Mihai, Bologa Octavian (2010): *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, pag. 1208-1215, [DOI: 10.1063/1.3457520](https://doi.org/10.1063/1.3457520) (ISI Conference Proceedings, conferință ERA clasa A)
- Oleksik Valentin, **Pascu Adrian**, Deac Cristian, Fleacă Radu, Roman Mihai (2009): *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, pag. 94-98, <http://www.wseas.us/e-library/conferences/2009/moscow/BEFI/BEFI15.pdf> (ISI Conference Proceedings)
- Pascu Adrian**, Oleksik Valentin, Pîrvu Bogdan, Frățilă Anca, Ionaș Mona, Boitor Cornel (2009): *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, pag. 249 - 254. (ISI Conference Proceedings)
- Pascu Adrian**, Oleksik Valentin, Curtu Ioan, Avrigean Eugen (2009): *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, pag. 799-800, <http://connection.ebscohost.com/c/articles/47080893/determination-forces-bending-perforated-plates-slotted-holes-through-experimental-fem> (ISI Conference Proceedings)
- Pascu Adrian**, Oleksik Valentin, Curtu Ioan, Avrigean Eugen (2009): *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, pag. 801-802 <http://connection.ebscohost.com/c/articles/47080894/stress-strain-field-distribution-ankle-foot-orthosis-afo-using-fem> (ISI Conference Proceedings)

10. Nicolae Cofaru, Valentin Oleksik, **Pascu Adrian** (2008): *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, 2008, ISSN 1790-2769, ISBN 978-960-474-022-2, pag. 167-172, 2008. <http://www.wseas.us/e-library/conferences/2008/bucharest2/vis/vis29.pdf>, (ISI Conference Proceedings)

C3. Articole publicate în reviste indexate BDI

1. Oleksik Mihaela, Deac Cristian, **Pascu Adrian**, Oleksik Valentin (2013): *Comparative study regarding the mechanical properties of silicon - coated and uncoated Naylor 6.6 fabrics* Academic Journal of Manufacturing Engineering, Volume 11, Issue 1/2013, pag. 84-89, ISSN 1583-7904 (B+ Index Copernicus)
2. Mihaela Oleksik, **Adrian Pascu**, Valentin Oleksik (2012): *Using of finite element method in study of behavior at the uniaxial traction tests of different types of weaves*. Petroleum - Gas University of Ploiesti Bulletin, Technical Series, vol. LXIV, no. 4/2012, pag. 81-88, ISSN 1224-8495 (B+, Ebsco)
3. Ionel Ciupe, Valentin Oleksik, **Adrian Pascu** (2012): *Experimental study of the crushing behavior of high density polyethylene pipes*. Petroleum - Gas University of Ploiesti Bulletin, Technical Series, vol. LXIV, no. 4/2012, pag. 45-50, ISSN 1224-8495 (B+, Ebsco)
4. **Pascu Adrian**, Oleksik Valentin, Fleacă Radu, Roman Mihai, Deac Cristian, Oleksik Mihaela (2011): *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, pag. 107-116, ISSN 1224-8495 (B+, Ebsco)
5. Frățilă Marcu, **Pascu Adrian** (2010): *Determination of stresses in the lenticular compensatory for thermal expansion applied with a shear force*. Acta Technica Napociensis – Applied Mathematics and Mechanics, no. 53, vol. II, 2010, pag. 169-172, ISSN 1221-5872 (B+, Index Copernicus - Cod CNCISIS 118)
6. **Pascu Adrian**, Oleksik Mihaela, Frățilă Marcu, Avrigean Eugen (2010): *Stress and strain analysis in plate with slotted holes placed in two different patterns, loading in perpendicular plane of plate*. Acta Technica Napociensis – Applied Mathematics and Mechanics, no. 53, vol. II, 2010, pag. 189-194, ISSN 1221-5872 (B+, Index Copernicus - Cod CNCISIS 118)
7. Oleksik Valentin, **Pascu Adrian**, Fleacă Radu, Roman Mihai, Deac Cristian (2010): *Using finite element method in study of autologous osteochondral mosaicoplasty*. Acta Technica Napociensis – Applied Mathematics and Mechanics, no. 53, vol. II, 2010, pag. 349-352, ISSN 1221-5872, (B+, Index Copernicus - Cod CNCISIS 118)
8. Fleacă Radu, Roman Mihai, Oleksik Valentin, **Pascu Adrian**, Deac Cristian, Baier Ioan (2010): *The evaluation of the pull out force between osteochondral plug and the receiving tunnel in autologous osteochondral transplantation*. Acta Medica Transilvanica, Anul XV, Vol. II, No. 1, 2010, ISSN 1453-1968, pag. 191-193, (B+, Index Copernicus - Cod CNCISIS 68)
9. Fleacă Radu, Roman Mihai, Oleksik Valentin, **Pascu Adrian**, Deac Cristian, Baier Ioan (2010): *Analysis of the mechanical properties of the osteochondral plugs in autologous osteochondral transplantation*. Acta Medica Transilvanica, Anul XV, Vol. II, No. 2, 2010, ISSN 1453-1968, pp. 224-226, (B+, Index Copernicus - Cod CNCISIS 68)
10. Oleksik Valentin, **Pascu Adrian**, Găvrus Adinel, Oleksik Mihaela (2010): *Experimental Studies Regarding the Single Point Incremental Forming Process*. Academic Journal of Manufacturing Engineering, Volume 8, Issue 2/2010, ISSN 1583-7904, pag. 51-56, (B+, Index Copernicus - Cod CNCISIS 127)
11. Frățilă Anca, Boitor Cornel, Ionaș Mona, Oleksik Valentin, **Pascu Adrian**, Pîrvu Bogdan (2009): *Aplicații ale metodei elementului finit în studiul solicitărilor mecanice în medicina dentară*. Revista Română de Stomatologie, vol. LV, Nr. 4/2009, ISSN 1843-0805, pag. 252-255, (B+, Ebsco, Cod CNCISIS: 756)
12. Boitor Cornel, Frățilă Anca, Ionaș Mona, **Pascu Adrian**, Oleksik Valentin, Pîrvu Bogdan (2009): *Analiza prin metoda elementului finit a leziunilor de abfracție dentară*. Revista Română de Stomatologie, vol. LV, Nr. 4/2009, ISSN 1843-0805, pag. 270-274, (B+, Ebsco, Cod CNCISIS: 756)
13. Avrigean Eugen, **Pascu Adrian**, Oleksik Valentin (2009): *Realising of the component elements of loaded cardan transmissions with the help of rapid prototyping*. MOCM – Volume 15 (4) 2009 – Romanian Technical Sciences Academy, ISSN 1224-7480, pag. 6-9 (B+, indexata in doua baze de date internationale: VINITI, CSA)

14. Oleksik Valentin, Gheorghe Ion, **Pascu Adrian (2008)**: *Analytical and numerical simulation study of the dynamic behavior of multi-cuttings bars*. Proceedings of the 4th International Conference on Robotics - ROBOTICS '08 - Braşov, 13-14 November 2008. Publicată în Bulletin of the "Transilvania" University of Braşov, Vol. 15(50) - Series A, ISSN 1223-9631, Special Issue, No.1, Vol. II, ISBN 978-973-598-387-1, pag. 745-750
15. **Pascu Adrian**, Sofonea Galaftion, Frăţilă Marcu (2007): *Determination of the stress and strain states and regression equations for a different parameters in perforated plates with square holes placed in a parallel pattern, stressed with uniaxial traction*. WSEAS Transaction on Computers Journal, Issue 2, vol. 6, February 2007, ISSN 1109-2750, pag. 306-313

C4. Articole publicate în reviste recunoscute CNCSIS (altele decât cele B+)

1. Boitor Cornel, Frăţilă Anca, Sabău Mariana, Nicoale Vasile, **Pascu Adrian (2010)** *Distribution of specific stresses and strains to different types of teeth with orthodontic force request*. Revista DentoMedica, Anul XIV, Nr. 1/2010, ISSN 1453-2476, pg. 21-25.
2. Fleacă Radu, Roman Mihai, Oleksik Valentin, **Pascu Adrian**, Deac Cristian, Baier Ioan (2009): *Analysis of the mechanical properties and the behaviour of the distal femur to axial static loading*. Revista de Ortopedie și Traumatologie (Journal of Orthopaedic Trauma), Vol. 19, No. 3, 2009, ISSN 1220-6466, pag. 128-129 (Categ. C, Cod CNCSIS: 374)
3. Roman Mihai, Fleacă Radu, Cofaru Nicolae, Oleksik Valentin, **Pascu Adrian**, Baier Ioan (2009): *Tibial fixation in ACL reconstruction with STG graft - biomechanical study*. Revista de Ortopedie și Traumatologie (Journal of Orthopaedic Trauma), Vol. 19, No. 3, 2009, ISSN 1220-6466, pag. 148-149 (Categ. C, Cod CNCSIS: 374)
4. Frăţilă Marcu, Vasiloaica Constantin, **Pascu Adrian (2008)**: *Stiffness of lens-shaped thermal expansion compensator*. Acta Universitatis Cibiniensis - Technical Series, vol. LVII, 2008, Sibiu, ISSN 1583-7149, pag. 31-34 (Categ. B, Cod CNCSIS: 5)
5. Gheorghe Ion, Oleksik Valentin, **Pascu Adrian (2008)**: *Modal and harmonic analysis applied on boring bar at pitched dynamic absorber*. Acta Universitatis Cibiniensis - Technical Series, vol. LVII, 2008, Sibiu, ISSN 1583-7149, pag. 35-40 (Categ. B, Cod CNCSIS: 5)
6. **Pascu Adrian**, Oleksik Valentin, Frăţilă Marcu, Sofonea Galaftion (2008): *Stress and strain distributions in plane plate with square holes placed in a parallel pattern, stressed at uniaxial tension (experimental and numerical studies)*. Acta Universitatis Cibiniensis - Technical Series, vol. LVII, Sibiu, 2008, ISSN 1583-7149, pag. 41-46 (Categ. B, Cod CNCSIS: 5)
7. Oleksik Valentin, **Pascu Adrian (2005)**: *Numerical simulation of first stage of incremental sheet forming process by a hemispherical punch centric positioned*. Acta Universitatis Cibiniensis - Technical Series, , Vol. LII, Sibiu, 2005, ISSN 1583-7149, pag. 25-30 (Categ. C, Cod CNCSIS: 5)

C5. Articole publicate în volumele unor conferințe sau congrese internaționale

1. Avrigean Eugen, Valentin Oleksik, **Pascu Adrian (2014)**: *Experimental Determining of Mechanical and Elastic Characteristics for the Material used in the Manufacturing of Cardan Crosse*. IManE 2014 International Conference Fee "Beyond the limits of EU", 29-30 mai 2014, Chisinău, Republica Moldova, ISSN 978-0-00001-840-3, pag.
2. **Pascu Adrian**, Valentin Oleksik, Ionel Ciupe (2013): *Experimental and numerical study regarding the paralel plane test for polyethylene pipe stiffness*. Proceedings of 30th Danubia-Adria-Symposium on Advances in Experimental Mechanics, 25-28 September, 2013, Primosten, Croația, ISBN 978-953-7539-17-7, pag. 145-146
3. Cornel Gh. Boitor, **Adrian Pascu**, Anca Frăţilă, Mariana Sabău (2011): *Using the finite element method in determining stress area dental package after application of orthodontic forces type*. Timmedica International Congress and Exhibition; News in medicine, dental medicine and pharmacy; 4th Edition : Timișoara, România, June 16-18, 2011, ISBN 978-606-8054-45-2

4. **Pascu Adrian**, Frățița Marcu, Avrigean Eugen, Vasiloaica Constantin (2011): *Temperature and loading speed influence on the polyamide 6.6 yarn-to-yarn friction*. Proceedings of 28th Danubia-Adria-Symposium on Advances in Experimental Mechanics, 28th September – 01 October, 2011, Siofok, Hungary, ISBN 978-963-9058-32-3, pag. 277-278
5. Fleacă Radu, Roman Mihai, Oleksik Valentin, **Pascu Adrian**, (2011): *Pipkin II Fracture of the Femoral Head – Case Presentation*, 12th European Congress of Trauma and Emergency Surgery (ESTES), Milano, Italia, 27-30 May, 2011
6. Roman Mihai, Fleacă Radu, Cofaru Nicolae, Oleksik Valentin, **Pascu Adrian**, Deac Cristian, (2011): *Three different tibial fixation systems in ACL reconstruction with STG graft – biomechanical study*, 12th European Congress of Trauma and Emergency Surgery (ESTES), Milano, Italia, 27-30 May, 2011
7. Roman Mihai, Fleacă Radu, Cofaru Nicolae, Oleksik Valentin, **Pascu Adrian**, Deac Cristian, (2011): *Femoral condyle fracture after lateral patella dislocation. Fixation technique with subcondral K wires*, 12th European Congress of Trauma and Emergency Surgery (ESTES), Milano, Italia, 27-30 May, 2011
8. Roman Mihai, Fleacă Radu, Cofaru Nicolae, Oleksik Valentin, **Pascu Adrian**, Deac Cristian, (2011): *Partial ACL lesions*, 12th European Congress of Trauma and Emergency Surgery (ESTES), Milano, Italia, 27-30 May, 2011
9. Jafar Albinmousa, **Adrian Pascu**, Hamid Jahed, Alan Luo, D. Chen, Steve Lambert, J. Jordon, S. Begum, Xuming Su, Q.Q. Duan, Richard Osborne, Z. Zhang, Lin Zhang, T. Luo, Yuansheng Yang (2010): *Monotonic and Fatigue Behavior of Magnesium Extrusion Alloy AM30: An International Benchmark Test in the “Magnesium Front End Research and Development Project”*. presented at SAE 2010 World Congress & Exhibition, April 2010, Detroit, MI, USA, Session: Magnesium Technologies, and published in *Advances In Light Weight Materials – Aluminum, Casting Materials, and Magnesium Technologies*, ISSN 0148-7191, [DOI: 10.4271/2010-01-0407](https://doi.org/10.4271/2010-01-0407)
10. **Pascu Adrian**, Oleksik Valentin, Fleacă Radu, Deac Cristian, Roman Mihai (2010): *Numerical simulation of a femur with osteochondral autologous plug transplantation*. 9th International Symposium Computer Methods in Biomechanics and Biomedical Engineering, 24 – 27 February, 2010, Valencia, Spain
11. Fleacă Radu, Roman Mihai, Oleksik Valentin, **Pascu Adrian**, Deac Cristian, Baier Ioan (2010): *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, pag.248-249
12. Fleacă Radu, Roman Mihai, Oleksik Valentin, **Pascu Adrian**, Deac Cristian, Baier Ioan, Stanciu T. (2010): *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, pag.258-259
13. Roman Mihai, Fleacă Radu, Oleksik Valentin, **Pascu Adrian**, Deac Cristian, Cofaru Nicolae, Baier Ioan (2010): *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, pag.
14. Roman Mihai, Fleacă Radu, Cofaru Nicolae, Oleksik Valentin, **Pascu Adrian**, Deac Cristian, Baier Ioan, Roman Cristina (2010): *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, pag.
15. Fleacă Radu, Roman Mihai, Oleksik Valentin, **Pascu Adrian**, Deac Cristian, Baier Ioan, Stanciu T., Popescu M., Sopon C., Lupean A., Mohor C. (2010): *The Prevalence Of Knee Articular Cartilage Lesions In Arthroscopic Examination*. The 11th Congress of European Federation of National Association of Orthopaedics and Traumatology (EFORT 2010), Madrid, Spain, 2-5 June 2010, pag. 476
16. Roman Mihai, Fleacă Radu, Baier Ioan, Baciu R., Coman A.M., Oleksik Valentin, Cofaru Nicolae, **Pascu Adrian**, Deac Cristian, Roman Cristina. (2010): *Hybrid tibial fixation in ACL reconstruction with hamstrings graft (STG)*. The 11th Congress of European Federation of National Association of Orthopaedics and Traumatology (EFORT 2010), Madrid, Spain, 2-5 June 2010, pag. 516

17. Roman Mihai, Fleacă Radu, Cofaru Nicolae, Oleksik Valentin, **Pascu Adrian**, Deac Cristian, Baier Ioan (2010): *Hybrid tibial fixation of hamstring grafts in ACL reconstruction – a biomechanical study*. The 11th Congress of European Federation of National Association of Orthopaedics and Traumatology (EFORT 2010), Madrid, Spain, 2-5 June 2010, pag. 517
18. Yibin Xue, Marcos Lugo, **Adrian Pascu**, Mark Horstemeyer (2009): *Fatigue Mechanism and Multistage Fatigue Modeling for Wrought Mg-3Al-1Zn*, 2009 TMS (The Minerals, Metals & Materials Society) Annual Meeting & Exhibition; Proceedings Title: Collected Proceedings: Fatigue: Mechanisms, Theory, Experiments and Industry Practice Included Symposia: Fatigue: Mechanisms, Theory, Experiments and Industry Practice
19. Oleksik Valentin, **Pascu Adrian**, Deac Cristian, Fleacă Radu, Roman Mihai (2009): *Numerical simulation of the incremental forming process for knee implants*. X International Conference on Computational Plasticity COMPLAS X, Barcelona, Spain, 1-4 September 2009, E. Oriante and D. R. J. Owen (Eds) <http://congress.cimne.com/complas09/proceedings/pdfs/p492.pdf>
20. **Adrian Pascu**, Yibin Xue, Nathan Smelser, Liang Wang, Paul Wang, Mark Horstemeyer (2008): *Cyclic-Plasticity and Fatigue Behavior of LENS Processed Metal*. ASME 2008 International Mechanical Congress and Exposition (IMECE), Boston – Massachusetts, United State
21. Valentin Oleksik, Cristian Deac, **Adrian Pascu** (2008): *Experimental researches regarding the structural modifications suffered by parts obtained by incremental sheet metal forming*. Proceedings of the 17th International Conference on Manufacturing Systems – ICMA^s, Bucharest, 13-14 November, 2008, Published by Editura Academiei, ISSN 1842-3183, pag. 291-295
22. Nicolae Cofaru, **Adrian Pascu**, Valentin Oleksik (2008): *Finite element analysis of static, vibration and fatigue behavior of the eccentric shaft component of a moto-mower B62*. Proceedings of the 17th International Conference on Manufacturing Systems – ICMA^s, Bucharest, 13-14 November, 2008, Published by Editura Academiei, ISSN 1842-3183, pag. 339-342
23. Oleksik Valentin, **Pascu Adrian**, Frățilă Marcu (2007): *Constructive optimization of the elastic element comprised in a mechanical dynamometer by finite element method*. 24th Symposium on Experimental Methods in Solid Mechanics Danubia-Adria, Sibiu – Romania, 2007, ISBN 978-973-739-456-9, pag. 135-136
24. Oleksik Valentin, Breaz Radu Eugen, **Pascu Adrian** (2006): *Finite element simulation for rectangular parts obtained by incremental sheet metal forming process*. The 15th International Conference on Manufacturing System, ICMA^s – 2006, Bucharest – Romania, 2006, ISSN 1842-3183, pag. 407-410
25. **Pascu Adrian**, Oleksik Valentin, Curtu Ioan, Szava Ioan (2006): *Determination of forces appearing at the bending of perforated plates with square holes placed in parallel, through experimental tests and finite element analysis*. Symposium on Experimental Methods in Solid Mechanics 23rd Danubia – Adria, Podbanské, Slovak Republic 26 – 29 September 2006, ISBN 80-8070-589-5, pag. 43-44
26. **Adrian Pascu**, Ioan Curtu, Ioan Szava (2006): *The determination by experimental and numerical methods of stress and strain states in perforated plates with groove-shaped holes positioned in parallel pattern, stressed with single axis tensile stress*. 5th Youth Symposium on Experimental Solid Mechanics, Puchov, Slovakia 10 – 13 May 2006, ISBN 80-969228-0-7, EAN 9788096922802, pag. 18-19
27. Ioan Curtu, **Adrian Pascu**, Angela Repanovici, Vasile Ciofoaia (2005): *Using the finite elements method for the study of stresses and strains distribution in plates perforated with circular holes under applied stresses on the plate's plane*. 9th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology" TMT 2005, Antalya, Turkey 26 – 30 September 2005, ISBN 9958-617-28-5, pag. 913-916
28. Curtu Ioan, **Pascu Adrian**, Ciofoaia Vasile, Stanciu M., Repanovici Angela (2005): *Optimization of perforated structures with a circular holes*. 1st International Conference Computational Mechanics and Virtual Engineering, COMEC 2005, Universitatea "Transilvania" din Braşov, Braşov, ISBN 973-635-593-4, pag. 161-164
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2. **Pascu Adrian,** Sofonea Galaftion, Frățilă Marcu (2006): *Determinarea ecuațiilor de regresie a unor caracteristici mecanice și elastice în cazul unei structuri de tip plasă de sârmă solicitată la tracțiune uniaxială.* Al XII-lea Simpozion Național de Mecanica Ruperii, Universitatea „Valahia” Tîrgoviște, România, 2006, ISBN (10) 973-7616-48-0, ISBN (13) 978-973-7616-48-7, pag. 177-182
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13. **Pascu Adrian,** Sofonea Galaftion, Marcu Frățilă (2003): *Model de calcul al deformațiilor din laturile unei rețele de plasă de sârmă cu ochiuri hexagonale solicitată la întindere în planul structurii.* Al IX-lea Simpozion Național de Mecanica Ruperii, Sibiu-Mediaș, România, ISSN 1453-6536, pag. B7-B10
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17. Bercan Nicolae, Vasiloaica Constantin, **Pascu Adrian (2001)**, *Cinematica directă și indirectă a unui robotomecanism de orientare bimobil cu mișcări decuplate*. A III-a Conferință de Dinamica Mașinilor CMD 2001, Universitatea „Transilvania” din Brașov, ISSN 1223-96361, pag. 453-456
18. Vasiloaica Constantin, Bercan Nicolae, **Pascu Adrian (2001)**: *Funcții de tensiuni în structuri cilindrice pretensionate prin înfășurare*. A III-a Conferință de Dinamica Mașinilor CMD 2001, Universitatea „Transilvania” din Brașov, ISSN 1223-96361, pag. 457-460
19. Vasiloaica Constantin, Sofonea Galaftion, **Pascu Adrian**, Avrigean Eugen (2000), *Model de funcție pentru determinarea tensiunilor în structuri cilindrice pretensionate*. A VI-a Sesiune de Comunicări Științifice, Universitatea “C-tin. Brâncuși” Tg. Jiu - România, ISBN 973-8086-11-6, pag. 25-30

D. Brevete de invenție

1. Bercan Nicolae, Bercan Radu, **Pascu Adrian (2002)**: *Braț telescopic echilibrat*. Brevet de invenție nr. 00119291, Titular: Universitatea Româno-Germană din Sibiu, România, Data de depozit: 06.02.2002

E. Proiecte de cercetare – dezvoltare – inovare

E1. Proiecte bținute prin competiție pe bază de contract/grant în străinătate/țară (Pi-internaționale, Pn-naționale,)

1. (Pi) - “Ballistic Impact Dynamic Modeling of Fabric for New Protective Systems” - (Director (Principal Investigator PI)-: funded by SAE Solutins, Award number: 07060579, Data: 01.11.2007 – 31.11.2008, valoare contract: 101.959 USD)
2. (Pi) - “Integration of Damage Models” - (membru în colectivul de cercetare (Co-PI): funded by Miltech, Agreement number: MILTEC-04-C-0018, Data: 01.10.2007 – 31.09.2008, valoare contract: 425.000 USD)
3. (Pi) - “Internal State Variable Model for Powder Metal (PM) / Laser Engineered Net Shaping (LENS) Components” - (membru în colectivul de cercetare (Co-PI): funded by US Army TARDEC, Agreement number: W56HZV-04-02-0003, Bilateral Modification: P00005, Data: 27.09.2004 – 27.09.2009, valoare contract: 4.919.998 USD)
4. (Pi) - “A Canada-China-USA Collaborative Research & Development Project: Magnesium Front End Research And Development (MFERD)” - (membru în colectivul de cercetare (Co-PI): funded by US DoE, Award number: W56HZV0420003 05020218, Modification number: P00004, Data: 27.09.2004 – 27.09.2008, valoare contract: 3.269.998 USD)
5. (Pn) - “Analiza teoretică și experimentală a comportării statice și dinamice a grefelor în transplantul osteocondral autolog” (membru în echipa de proiect), 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 (2008-2011), valoare contract: 737.200 RON
6. (Pn) - “Dezvoltarea unei metode de studiu a comportării plastice a materialelor prin analiză inversă” (membru în echipa de proiect), Beneficiar: C.N.C.S.I.S., Nr. contract 375/2003 (2003-2004), valoare contract: 190,67 mil. ROL.

E2. Alte proiecte de cercetare dezvoltare

1. „Invață lucrând! Practica asigură succesul în carieră”. (membru în echipa de proiect), Beneficiar: Universitatea “Lucian Blaga” din Sibiu, Cod contract POSDRU/161/2.1./G/139293, Proiect cofinanțat din Fondul Social European prin Programul Operațional Sectorial pentru Dezvoltarea Resurselor Umane 2007 – 2013, Axa prioritară: 2. Corelarea învățării pe tot parcursul vieții cu piața muncii, Domeniul major de intervenție: 2.1. Tranziția de la școală la o viață activă, valoare contract: 2.141.277 RON.

2. „Creșterea calității programelor de studii de licență și master în domeniile Mecatronică și Robotică și Inginerie Industrială prin armonizarea acestora cu cerințele pieței muncii și transferul transnațional de know-how”. (membru în echipa de proiect), Beneficiar: Universitatea “Lucian Blaga” din Sibiu, Cod contract POSDRU/156/1.2./137094, Proiect cofinanțat din Fondul Social European prin Programul Operațional Sectorial pentru Dezvoltarea Resurselor Umane 2007 – 2013, Axa prioritară: 1. Educația și formarea profesională în sprijinul creșterii economice și dezvoltării societății bazate pe cunoaștere, Domeniul major de intervenție: 1.2. Calitate în învățământul superior, valoare contract: 1.646.282 RON.
3. „Studii teoretice și experimentale asupra comportării mecanice a ansamblurilor sudate de țevi și fittinguri din polietilenă de înaltă densitate”, (membru în echipa de proiect), Beneficiar: S.C. FUSION ROMANIA S.R.L. Sibiu, Nr. contract 1669/04.06.2014, valoare contract: 10.400 RON
4. „Analiza stabilității componentei tibiale a endoprotezei totale de genunchi în defectele osoase ale platoului tibial”, (membru în echipa de proiect), Beneficiar: S.C. STRYKER ROMANIA S.R.L. București, Nr. contract 34562/21.11.2013, valoare contract: 146.700 RON
5. “Studii și cercetări privind nivelul de compatibilitate cu caracteristicile de exploatare a unor materiale tubulare metalice (țevi de extracție), ca urmare a degradării premature a acestora - țevi de extracție care echipează sondele de gaz ale S.M.G.N.ROMGAZ S.A.”, (membru în echipa de proiect), Beneficiar: S.C. S.M.G.N.ROMGAZ S.A. Mediaș, Nr. contract 12/13.01.2011, valoare contract: 147.000 RON
6. „Specializarea cadrelor didactice din învățământul secundar, profesional și tehnic în proiectarea asistată de calculator” (cod contract: POSDRU/19/1.3/G/11316). (membru în echipa de proiect), Proiect cofinanțat din Fondul Social European prin Programul Operațional Sectorial pentru Dezvoltarea Resurselor Umane 2007 – 2013, Axa prioritară: 1 Educația și formarea profesională în sprijinul creșterii economice și dezvoltării societății bazate pe cunoaștere, Domeniul major de intervenție: 1.3 Dezvoltarea resurselor umane din educație și formare, Beneficiar: Universitatea “Lucian Blaga” din Sibiu, (perioada de desfășurare: 01.04.2010 – 31.03.2012), valoare contract: 1.564.000 RON
7. Phare 2004 “Formare profesională în domeniile CAM, CAD și aplicații Office”. (membru în echipa de proiect), Beneficiar: Universitatea “Lucian Blaga” din Sibiu, Nr. contract PHARE 2004/016-772.04.02.02.01.01.710, valoare contract: 50.000 Euro
8. Phare 2002 Coeziune Economică și Socială – Dezvoltarea Resurselor Umane – “Formare profesională și specializare în domeniul IT (CAD și aplicații MS-Office)”. (membru în echipa de proiect), Beneficiar: Universitatea “Lucian Blaga” din Sibiu, Nr. contract RO-2002/000-586.05.02.02.294.2004, valoare contract: 50.000 Euro
9. “Soluții constructive pentru compensarea supraîncălzirii conductei de tranzit gaze DN 1200, Isaccea Negru Vodă, de la supra-traversarea Pârâului Taița, jud. Tulcea” (membru în echipa de proiect), Beneficiar: S.C. Transgaz S.A. Mediaș, Nr. contract 27/2002, valoare contract: 43,5 mil. ROL
10. “Studiul stării de tensiune și deformație la sapa de foraj cu role conice și la reducția dezaxată de la sonda de foraj direcțional” (membru în echipa de proiect), Beneficiar: S.C. Dafora S.A. Mediaș, Nr. contract 2506/2002, valoare contract: 100 mil. ROL
11. “Studiul tensiunilor și a deformațiilor la conducta de tranzit gaze DN 1200, Isaccea Negru Vodă, traversarea aeriană a Pârâului Taița, jud. Tulcea” (membru în echipa de proiect), Beneficiar: S.C. Transgaz S.A. Mediaș, Nr. contract 86/2001, valoare contract: 41 mil. ROL

F. Publicații în curs de apariție

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G.P. Potirniche, A. Pascu, N. Shoemaker, P.T. Wang, M.F. Horstemeyer, D. Stillman, T.-L. Lin (2011): *A visco-hyperelastic model for the thermo-mechanical behavior of polymer fibers*. International Journal of Damage Mechanics, vol. 20, Issue 7, 2011, pag. 1002-1020, ISSN 1056-7895 (factor de impact 1.928, scor relativ de influență 1.060). DOI: [10.1177/1056789510370394](https://doi.org/10.1177/1056789510370394)
2. GANESH PUPPALA, ANIRUDDHA MOITRA, S. SATHYANARAYANAN, RAKESH KAUL, SASIKALA G, RAM CHANDRA PRASAD, LALIT. M. KUKREJA (2014): *Evaluation of fracture toughness and impact toughness of laser rapid manufactured Inconel-625 structures and their co-relation*, Materials & Design, Volume 59, July 2014, Pages 509–515, ISSN: 0261-3069, (FI=2.913, SRI=0), DOI: [10.1016/j.matdes.2014.03.013](https://doi.org/10.1016/j.matdes.2014.03.013), citează lucrarea C1-4
3. PULIN NIE, O.A. OJO, ZHUGUO LI, (2014): *Numerical modeling of microstructure evolution during laser additive manufacturing of a nickel-based superalloy*, Acta Materialia, vol. 77, 2014, pag. 85-95, ISSN 1359-6454 (FI=3.941, SRI=10.827), DOI: [10.1016/j.actamat.2014.05.039](https://doi.org/10.1016/j.actamat.2014.05.039), citează lucrarea C1-4
4. P. GANESH, RAKESH KAUL, G. SASIKALA, HARISH KUMAR, S. VENUGOPAL, PRAGYA TIWARI, SANJAY RAI, R. C. PRASAD, L. M. KUKREJA (2014): *Fatigue Crack Propagation and Fracture Toughness of Laser Rapid Manufactured Structures of AISI 316L Stainless Steel*, Metallography, Microstructure and Analysis, ISSN: 2192-9270, January 2014, DOI: [10.1007/s13632-013-0115-3](https://doi.org/10.1007/s13632-013-0115-3), citează lucrarea C1-4
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Yibin Xue, Adrian Pascu, Mark Horstemeyer, Liang Wang, Paul Wang (2010): *Microporosity effects on cyclic plasticity and fatigue of LENSTM-processed steel*. Acta Materialia, vol. 58, Issue 11, 2010, pag. 4029-4038, ISSN 1359-6454 (factor de impact 3.781, scor relativ de influență 10.827). DOI: [10.1016/j.actamat.2010.03.014](https://doi.org/10.1016/j.actamat.2010.03.014)
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10. DUFLOU, J.R., BEHERA, A.K, VANHOVE, H., BERTOL, L.S. (2013): *Manufacture of Accurate Titanium Cranio-Facial Implants with High Forming Angle Using Single Point Incremental Forming*, Key Engineering Materials, Sheet Metal 2013, Volume: 549, DOI: 10.4028/www.scientific.net/KEM.549.223, pag. 1312-1319, ISSN: 1662-9795, citează lucrarea **C2-3**:
11. MITSUISHI, M., CAO, J., BARTOLO, P., FRIEDRICH, D., SHIH, A.J., RAJURKAR, K., SUGITA, N., HARADA, K. (2013): *Biomanufacturing*, CIRP Annals – Manufacturing Technology, Vol. 62 (2013), p. 585-606, ISSN: 0007-8506, jurnal cotat ISI Thompson, <http://dx.doi.org/10.1016/j.cirp.2013.05.001> (FI=2.251, SRI=2.108), citează lucrarea **C2-3**:
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Oleksik Valentin, **Pascu Adrian**, Deac Cristian, Fleacă Radu, Roman Mihai, Bologa Octavian (2010): *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, pag. 1208-1215.
13. CHERA, I., BOLOGA, O., RACZ, G., BREAZ, R. (2013): *Researches regarding an incremental forming process by means of an industrial robot*, Buletinul Institutului Politehnic Iași, Published by "Gheorghe Asachi" Technical University, Tom LIX (LXIII), Fasc. 1, 2013, pag. 31 – 36, citeaza lucrarea **C2-8**:
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16. CHERA, I., BOLOGA, O., RACZ, G., BREAZ, R. (2013): *Researches regarding an incremental forming process by means of an industrial robot*, Buletinul Institutului Politehnic Iași, Published by "Gheorghe Asachi" Technical University, Tom LIX (LXIII), Fasc. 1, 2013, pag. 31 – 36, citeaza lucrarea **C3-10**:
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