

## 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. Avrigean Eugen, Bondrea Ioan, **Pascu Adrian**, Oleksik Valentin (2016): *Theoretical and experimental analysis of the cardanic transmissions*, LAP Lambert Academic Publishing, Germany, ISBN 978-3-659-69486-8, 200 pag.
2. **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.
3. 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.
4. 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.
5. 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.
6. **Pascu Adrian (2008):** *Rezistența materialelor*, Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-973-739-700-3, 431 pag.
7. 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](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 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)
4. Yibin Xue, **Adrian Pascu**, Mark Horstemeyer, Liang Wang, Paul Wang (2010): *Microporosity effects on cyclic plasticity and fatigue of LENS<sup>TM</sup> - 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, Bologa 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).

6. 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

1. Eugen Avrigean, **Adrian Pascu**, Valentin Oleksik (2015): *Study of the cardan cross using the experimental an analytical method.* Procedia Engineering, volume 100, 2015, ISSN 1877-7058, pag. 499-504, DOI: [10.1016/j.proeng.2015.01.396](https://doi.org/10.1016/j.proeng.2015.01.396) (ISI Conference Proceedings)
2. **Adrian Pascu**, Valentin Oleksik, Ioan Bondrea, Liviu Roșca (2014): *Inverse analysis used to determine the plastic flow and tribological characteristics for deep-drawing sheet.* 11<sup>th</sup> 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)
3. Valentin Oleksik, **Adrian Pascu**, Ioan Bondrea, Eugen Avrigean, Liviu Roșca (2014): *Comparative study for springback prediction on single point incremental forming process.* 15<sup>th</sup> Conference on Metal Forming, 21-24 September 2014, Palermo, Italy.
4. Oleksik Valentin, **Pascu Adrian**, Roșca Liviu, Bondrea Ioan (2013): *Numerical-Experimental Comparison Study Regarding Single Point Incremental Forming Process.* Proceedings of the 11<sup>th</sup> 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)
5. 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 16<sup>th</sup> International Conference on Advances in Materials & Processing Technologies, Taiwan, 22-26 September 2013 (ISI Conference Proceedings, conferință ERA clasa A)
6. 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 10<sup>th</sup> 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)
7. Oleksik Valentin, **Pascu Adrian**, Deac Cristian, Fleacă Radu, Roman Mihai (2009): *Experimental strain field distribution in ankle-foot orthosis (AFO).* Proceedings of the 2<sup>nd</sup> 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/BEBI/BEBI15.pdf> (ISI Conference Proceedings)
8. **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.* 5<sup>th</sup> Balkan Region Conference on Engineering and Business Education & 2<sup>nd</sup> 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)
9. **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 20<sup>th</sup> 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)

10. **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)
11. Nicolae Cofaru, Valentin Oleksik, **Pascu Adrian** (2008): *Finite element simulations regard different alternatives of the single point incremental forming process*. Proceedings of the 1<sup>st</sup> 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 CNCIS 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 CNCIS 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 CNCIS 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 CNCIS 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 CNCIS 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 CNCIS 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 CNCIS: 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 CNCIS: 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 4<sup>th</sup> International Conference on Robotics - ROBOTICS '08 - Brașov, 13-14 November 2008. Publicată în Bulletin of the "Transilvania" University of Brașov, 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, Frățilă 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 CNCIS (altele decât cele B+)

1. Boitor Cornel, Frățilă 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 CNCIS: 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 CNCIS: 374)
4. Frățilă 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 CNCIS: 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 CNCIS: 5)
6. **Pascu Adrian**, Oleksik Valentin, Frățilă 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 CNCIS: 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 CNCIS: 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, Chisinau, 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 30<sup>th</sup> 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 Frățilă, 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; 4<sup>th</sup> Edition : Timișoara, România, June 16-18, 2011, ISBN 978-606-8054-45-2
  4. **Pascu Adrian**, Frățila Marcu, Avrigean Eugen, Vasiloaica Constantin (2011): *Temperature and loading speed influence on the polyamide 6.6 yarn-to-yarn friction*. Proceedings of 28<sup>th</sup> Danubia-Adria-Symposium on Advances in Experimental Mechanics, 28<sup>th</sup> September – 01 October, 2011, Siófok, 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*, 12<sup>th</sup> 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*, 12<sup>th</sup> 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*, 12<sup>th</sup> 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*, 12<sup>th</sup> 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*. 9<sup>th</sup> 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*, 14<sup>th</sup> 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*. 14<sup>th</sup> 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*. 14<sup>th</sup> 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*. 14<sup>th</sup> 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 11<sup>th</sup> 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, Baciuc 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 11<sup>th</sup> 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 11<sup>th</sup> 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 17<sup>th</sup> International Conference on Manufacturing Systems – ICMA<sup>s</sup>, 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 17<sup>th</sup> International Conference on Manufacturing Systems – ICMA<sup>s</sup>, 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*. 24<sup>th</sup> 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 15<sup>th</sup> International Conference on Manufacturing System, ICMA<sup>s</sup> – 2006, Bucharest – Romania, 2006, ISSN 1842-3183, pag. 407-410
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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*. 9<sup>th</sup> 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
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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 supraînălțării 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**

1.

Prof. univ. dr. ing. Adrian Marius PASCU

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2. AMRITA BASAK, SUMAN DAS (2016): *Epitaxy and Microstructure Evolution in Metal Additive Manufacturing*, Annual Review of Materials Research, Vol. 46: 125-149 (Volume publication date July 2016), First published online as a Review in Advance on March 9, 2016, (FI=10.390), DOI:[10.1146/annurev-matsci-070115-031728](https://doi.org/10.1146/annurev-matsci-070115-031728), citează lucrarea C1-4
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8. AREF YADOLLAHI, NIMA SHAMSAEI, SCOTT M. THOMPSON, DENVER W. SEELY, (2015): *Effects of process time interval and heat treatment on the mechanical and microstructural properties of direct laser deposited 316L stainless steel*, Material Science and Engineering: A, Volume 644, 17 September 2015, Pages 171-183, ISSN 0921-5093, (FI=2.642), doi:[10.1016/j.msea.2015.07.056](https://doi.org/10.1016/j.msea.2015.07.056), citează lucrarea C1-4
9. DONGDONG GU., (2015): *Laser Additive Manufacturing (AM): Classification, Processing Philosophy, and Metallurgical Mechanisms*, Chapter in Book [Laser Additive Manufacturing of High-Performance Materials](#), April 2015, Pages 15-71, Print ISBN: 978-3-662-46088-7, Online ISBN: 978-3-662-46089-4, DOI: [10.1007/978-3-662-46089-4\\_2](https://doi.org/10.1007/978-3-662-46089-4_2), citează lucrarea C1-4
10. 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,

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11. 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
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  13. WANG SHAO GANG, WANG SUCHENG, ZHANG LEI (2013): *Application of high resolution transmission x-ray tomography in material science*, Acta Metallurgica Sinica, vol. 49, No. 8, 2013, pag. 897-910, ISSN: 1006-7191 (print version) ISSN: 2194-1289 (electronic version) (FI=0.467, SRI=0), citează lucrarea C1-4
  14. D.D. GU, W. MEINERS, K. WISSEN BACH, R. POPRAWA (2012): *Laser additive manufacturing of metallic components: materials, processes and mechanisms*, International Materials Reviews, Volume 57 Issue 3 (May 2012), pag. 133-164, ISSN: 0950-6608 (print version) ISSN: 1743-2804 (electronic version) (FI=7.480, SRI=0), DOI: <http://dx.doi.org/10.1179/1743280411Y.0000000014>, citează lucrarea C1-4  
 Yibin Xue, Adrian Pascu, Mark Horstemeyer, Liang Wang, Paul Wang (2010): *Microporosity effects on cyclic plasticity and fatigue of LENS<sup>TM</sup>-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)
  15. SHAKIR GATEA, HENGAN OU, GRAHAM MCCARTNEY, (2016): *Review on the influence of process parameters in incremental sheet forming*, The International Journal of Advanced Manufacturing Technology, Pages 1-21, ISSN 0268-3768 (Print), 1433-3015 (Online), Received: 22 October 2015 /Accepted: 25 January 2016 # The Author(s) 2016. This article is published with open access at Springerlink.com (FI=1.568), DOI: [10.1007/s00170-016-8426-6](https://doi.org/10.1007/s00170-016-8426-6), citează lucrarea C1-6
  16. RAHUL JAGTAP, SACHIN KASHID, SHAILENDRA KUMAR, H. M. A. HUSSEIN (2015): *An experimental study on the influence of tool path, tool diameter and pitch in single point incremental forming (SPIF)*, Advances in Materials and Processing Technologies, Volume 1, Issue 3-4, 2015, Pages 465-473, DOI: [10.1080/2374068X.2015.1128171](https://doi.org/10.1080/2374068X.2015.1128171)
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