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ANEXA 4.1

LISTA **lucrărilor științifice în domeniul disciplinelor din postul didactic**

A. Teza de doctorat

Specializarea masterat

1. Doctorat: Cercetări teoretice și experimentale privind comportarea mecanică a materialelor compozite cu suport textil, Teză de doctorat, Domeniul Inginerie Mecanică, Universitatea Lucian Blaga din Sibiu
2. Master: Managementul Calității

B. Cărți și capitole în cărți publicate în ultimii 10ani

1. 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....

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

Lucrări indexate ISI Clarivate

1. ROSCA, N., OLEKSIK, M., ROSCA, L. (2021) Numerical-experimental study regarding the single point incremental forming process, 10th International Conference on Manufacturing Science and Education, paper 185.
2. ROSCA, N., OLEKSIK, M., OLEKSIK, V. (2021) Experimental study regarding PA and PE sheets on single point incremental forming process, 10th International Conference on Manufacturing Science and Education, paper 186.
3. VLAD, D., OLEKSIK, M. Research Regarding Uniaxial Tensile Strength of Nylon Woven Fabrics, Coated and Uncoated with Silicone, 9th International Conference on Manufacturing Science and Education -MSE 2019- Matec Web of Conferences 290, ISBN: 2261-236X, <https://doi.org/10.1051/mateconf/201929009003>, 2019, art. 09003
4. ROSCA, N., OLEKSIK, M. Simulation of the Single Point Incremental Forming of Polyamide and Polyethylene Sheets, 9th International Conference on Manufacturing Science and Education -MSE 2019- Matec Web of Conferences 290, ISBN: 2261-236X, <https://doi.org/10.1051/mateconf/201929003014>, 2019, art. 03014
5. BIRIȘ, C., OLEKSIK, M. Study about mechanical properties of materials obtained by thermoforming, Material Science Forum, Volume 564, Issue 1, ISBN: 0255-5476, <https://doi.org/10.4028/www.scientific.net/MSF.957.389>, 2019, p. 389-398
6. RUSU, G.P., POPP, M.O, OLEKSIK, M., RODEAN, C. Numerical simulation of material failure in single point incremental forming process, IOP Conference Series: Materials Science and Engineering, Volume 957, ISBN: 1757-8981, DOI: 10.1088/1757-899X/564/1/012018, WOS:000562599900018, 2019, p. 12-18

7. PASCU, A., **OLEKSIK, M.**, ROSCA, N., AVRIGEAN, E., OLEKSIK, V. Experimental studies on uniaxial and echi biaxial tensile tests applied to plastic materials sheets, 35th Danubia Adria Symposium on Advances in Experimental Mechanics Published by Materials Today-Proceedings, <https://doi.org/10.1016/j.matpr.2019.03.116>, WOS:000468465100006, 2019, p. 213-218,
8. ROSCA, N., OLEKSIK, V., PASCU, A., **OLEKSIK, M.**, AVRIGEAN, E. Optical study for springback prediction, thickness reduction and forces variations on single point incremental forming. 35th Danubia Adria Symposium on Advances in Experimental Mechanics Published by Materials Today-Proceedings, <https://doi.org/10.1016/j.matpr.2019.03.116>, WOS:000468465100006, 2019, p. 213-218
9. **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).
10. **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, conferința ERA clasa A)
11. **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).

Lucrări cotate ISI Clarivate

1. **OLEKSIK, M.**, DOBROTA, D., TOMESCU, M., PETRESCU, V. (2021). Improving the Performance of Steel Machining Processes through Cutting by Vibration Control. Materials, 14, Article 5712. <https://doi.org/10.3390/ma14195712>, quartila Q1.
2. SOPON, M. **OLEKSIK, V.**, ROMAN, M., COFARU, N., **OLEKSIK, M.**, MOHOR, C., BOICEAN, A., FLEACĂ, R. (2021). Biomechanical Study of the Osteoporotic Spine Fracture: Optical Approach. Journal of Personalized Medicine, 11(9), Article 907, <https://doi.org/10.3390/jpm11090907>, WOS:000700782700001, quartila Q1.
3. DOBROTĂ, D., PETRESCU, V., DIMULESCU, D., **OLEKSIK, M.** Preparation and Characterization of Composites Materials with Rubber Matrix and with Polyvinyl Chloride Addition (PVC), Metals, Volume 12 (9), 2020, <https://doi.org/10.3390/polym12091978>
4. FLEACĂ, R., MIȚARIU, S.I.C., OLEKSIK, V., **OLEKSIK, M.**, ROMAN, M. Mechanical Behaviour of Orthopaedic Cement Loaded with Antibiotics in the Operation Room, Materiale Plastice, Volume 54, Issue 2, p. 402-7407, ISSN 0025-5289, 2017.
5. AVRIGEAN, E., ȘTEȚIU, M., **OLEKSIK, M.**, ȘTEȚIU, A.A., TĂNĂȘESCU C., CHICEA R., DURA, H., BOICEAN, A. Theoretical and Experimental Determination of the Fracture-Risk Area on the Electrofusion Socket Made of High Density Polyethylene, Materiale Plastice, Volume 53, Issue 4, p. 718-721, ISSN 0025-5289, 2016
6. ȘTEȚIU, M., AVRIGEAN, E., **OLEKSIK, M.**, FLEACĂ, R., BOICEAN, A., ȘTEȚIU, A.A. Determining the Temperature Field at Welding the Polyethylene Sockets, Materiale Plastice, Volume 53, Issue 3, p. 470-472, ISSN 0025-5289, 2016

7. ȘTEȚIU, A.A., **OLEKSIK, M.**,OLEKSIK, V., PETRUSE, R., ȘTEȚIU, M., The minimal burrdimensioning of teeth preparations to be restored with biomaterials, Romanian Biotechnological Letters, Volume 18, Issue 3, p. 8381-8389, ISSN 1224-5984, 2013.
8. 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.

Articole în reviste și volumele unor manifestări indexate în alte baze de date internaționale

1. **OLEKSIK, M.**Comparative StudyAboutDifferent Experimental LayoutsUsed on Single Point Incremental Forming Process, Acta Universitatis Cibiniensis, Vol. 70 (2018), Issue 1, ISSN 1583-7149, p. 21-27.
2. RUSU, G.P., POPP, M.O, BÂRSAN, A., **OLEKSIK, M.**Crimping Profile Optimization on the Air Spring Using Finite Element Method, Acta Universitatis Cibiniensis, Vol. 70 (2018), Issue 1, ISSN 1583-7149, p. 43-47.
3. **OLEKSIK, M.**, BIRIS, C.The influence of the silicone layer on polyamide 6.6 fabrics subjected to uniaxial and equibiaxial tensile tests, Academic Journal of Manufacturing Engineering, Vol. 16 (2018), Issue 4, ISSN 1583-7904, p. 161-166.
4. AVRIGEAN E., OLEKSIK, V., **OLEKSIK, M.**NecessaryStudy on theBehavior of Polyethylene Pipes under the Action of Accidental External Mechanical Factors, International Journal of Research in Engineering and Science, Vol. 5 (2017), Issue 8, ISSN (Online) 2320-9364, ISSN (Print) 2320-9356, p. 01-07.
5. AVRIGEAN E., PASCU, A., **OLEKSIK, M.**Simulation of the Mechanical Behavior of Polyethylene Pipes in the Static and Dynamic Field, International Journal of Research in Engineering andScience, Vol. 5 (2017), Issue 8, ISSN (Online) 2320-9364, ISSN (Print) 2320-9356, p. 15-21.
6. PASCU, A., **OLEKSIK, M.**, AVRIGEAN E. Experimental Method for Determining Forces at Bending of Perforated Plates, ACTA Universitatis Cibiniensis – Technical Series, Vol. 69 (2017), Issue 1, ISSN: 1583-7149, p. 52-58.
7. **OLEKSIK, M.**, COFARU, N.The influence of thestress concentrator on silicone coated polyamide 6.6 fabrics subjected to uniaxial tension tests, Academic Journal of Manufacturing Engineering, Vol. 15 (2017), Issue 4, ISSN 1583-7904, p. 133-139.
8. OLEKSIK, V., PASCU, A., BONDREA, I., **OLEKSIK, M.**, ROSCA, L. Study about the Influence of the Geometrical Parameters on the Force Variation, the Thickness Reduction and the Springback of Single Point Incremental Forming Process, TIMES-iCON2016, Bangkok, Thailand November, 2016, p. 85-90.
9. AVRIGEAN, E., **OLEKSIK, M.** Determination of the Fracture-Risk Areas on the Electrofusion Elbow Made of High Density Polyethylene, International Journal of Scienceand Research (IJSR), ISSN (Online): 2319-7064, Volume 4 Issue 11, November 2015, p. 1169-1174 (Index Copernicus, Scholar Google).
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11. **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.

12. **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.
13. **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).
14. 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).
15. OLEKSIK, V., PASCU, A., GĂVRUȘ, A., **OLEKSIK, M.** Experimental studies regarding the single point incremental forming process. Academic Journal of Manufacturing Engineering, Vol. 8, No. 2, 2010, ISSN 1583-7904, Cod CNCISIS 127, categ. B+, p. 51-56. (Index Copernicus, Scopus).
16. PASCU, A., **OLEKSIK, M.**, FRĂȚILĂ M., AVRIGEAN E. 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 (Index Copernicus, Scholar Google).
17. COFARU, I., **OLEKSIK, M.**, COFARU, N., ROMAN, M., FLEACĂ, R. Experimental stand used for studies of the knee's articulation pathology, Academic Journal of Manufacturing Engineering, Vol. 8, No. 3, 2010, ISSN 1583-7904, p. 6-11 (Index Copernicus, Scopus, Scholar Google).

Granturi/proiecte câștigate prin competiție

1. Titlu Proiect: „Studiu asupra comportării fittingurilor și țevilor de polietilenă sub acțiunea factorilor externi”, Beneficiar: S.C. SIFEE ACTION S.R.L., Nr. contract 3107/05.08.2021. Perioada contractului: 2021-2022. Valoare contract: 20.000 RON.
2. Titlu Proiect: „Studii și cercetări asupra identificării problemelor apărute în timpul sudării prin electrofuziune și exploatarea fittingurilor de polietilenă din domeniul rețelelor de distribuție gaze naturale”, Beneficiar: S.C. INSTALSIB GAZPROIECT SRL, Nr. contract 4520/11.11.2020. Perioada contractului: 2020-2021. Valoare contract: 10.500 RON.
3. Titlu Proiect: „Dispozitiv pentru testarea automată a conectorilor modulari”, (director în echipa de proiect), Beneficiar: S.C. ODU Romania Manufacturing, Nr. contract 5705/14.12.2018. Perioada contractului: 2018-2019. Valoare contract: 36.000 RON.
4. Titlu Proiect: „Cercetări privind optimizarea parametrilor procesului de solicitare mecanică a ansamblurilor sudate de țevi și fittinguri din polietilenă de înaltă densitate”, (membru în echipa de proiect), Beneficiar: S.C. PROCONFORT S.R.L. Sibiu, Nr. contract 2969/30.07.2015. Valoare contract: 11.500 RON.