

LISTA

lucrărilor științifice în domeniul disciplinelor din postul didactic

A – Teza de doctorat

„Contribuții privind îmbunătățirea procesului de extrudare a materialelor compozite polimerice armate cu fibre scurte”

Conducător științific: Prof.dr.ing. IANCAU Horațiu

Universitatea Tehnică din Cluj-Napoca

Susținere publică: 28 septembrie 2011

B – Cărți și capitole în cărți

CĂRȚI

1. Ivan Kuric, Sorin Grozav, Nadežda Čuboňová, **Adrian Popescu**, ș.a. “*Mechanization and automation equipment for processing*”, ISBN 978-606-737-102-4, Editura UTPRESS, Cluj-Napoca, **2015**, 482 pagini;
2. Sorin Grozav, Vasile Ceclan, **Adrian Popescu**, “*Utilaje pentru prelucrare prin deformare plastică la rece . Vol. 1*”, ISBN 978-606-8009-12-4, Editura JRC, **2015**, 273 pagini;
3. Paul Bere, Hancu L., **Adrian Popescu** ș.a.; “*Materiale compozite cu matrice polimerică. Lucrări de laborator*” Editura, UTPRESS, Cluj-Napoca, ISBN, 978-606-737-115-4, **2015**, 190 pagini.
4. Hancu L., Iancu H., **Adrian Popescu** ș.a.; “*Fabricația pieselor din materiale plastice. Lucrări de laborator*”, Editura UTPRESS, Cluj-Napoca, ISBN, 978-606-737-207-6, **2016**, 306 pagini;
5. Csaba Gyenge, **Adrian Popescu** “*Tehnologia roților dințate*”, ISBN 978-606-504-205-6, Editura Alma Mater, Cluj-Napoca, **2017**, 214 pagini;
6. Sorin Grozav, Ivan Kuric, **Adrian Popescu**, s.a. “*Tools and equipment for automated processes and systems*”, ISBN 978-80-89276-56-1 editura PARDON PRINT, Slovakia, **2019**, 498 pagini;
7. **Adrian Popescu** “*Extrudarea materialelor polimerice armate cu fibre de sticlă scurte*” ISBN 978-606-737-658-6, Editura UTPRESS, Cluj-Napoca, **2023**, 280 pagini;
8. **Adrian Constantin Popescu**, Mircea Aurelian Rusu, Emilia Sabău; “*Tehnologii de sudare. Lucrări de laborator*”, ISBN 978-606-504-227-8, Cluj-Napoca, Editura Alma Mater, **2023**, 145 pagini;

C – Lucrări indexate ISI/BDI

c1) Articole / studii publicate în reviste de specialitate de circulație internațională recunoscute (cotate ISI)

1. **Popescu Adrian**, Hancu, L., Bere P., *Research Concerning the Optimum Extrusion Temperature for Reinforced Polyamide*, 17th International Conference on Innovative Manufacturing Engineering, IManE 2013, Applied Mechanics and Materials Vol. 371, ISSN: 1662-7482, ISBN-13: 978-303785786-1, 23-24 Mai, Iași; Romania, pag. 394-398, **2013**;
2. Morar, C., **Popescu, A.**, *The design of a plastic injection mold for the part “Tensile Test Specimen”*, Journal: ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING, ISSN 1221-5872, Volume 60, No.2, pg. 319-324, Data publicării 5/7/**2017**;
3. Hancu, L., Marc, G., Popescu Adrian, Bere, P., Rodean, S., *Proposal for a composite structure and graphic design for a parking barrier*, MATEC Web of Conferences, Vol. 137, p. 08004, DOI: 10.1051/mateconf/201711207021, **2017**;
4. Bere, P., **Adrian Popescu** , Dudescu, C., Hancu, L, *Influence of the stacking sequence on the mechanical proprieties of glass fiber reinforced polymer*, Volume 112 MATEC Web Conf., 11204006, <https://doi.org/10.1051/mateconf/201711204006>, **2017**;
5. **Popescu, A.**, Hancu, L., Sabau, E., *Effect of temperature on the mechanical properties of extrusion glass fiber reinforced polyamide 6.6 composites (GFRPA 6.6)*, Journal: ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING, ISSN 1221-5872, Volume 61, No.2, pg. 213-218, Data publicării 27/6/**2018**;
6. **Adrian Popescu**, Hancu Liana, Sabău Emilia, *Effect of temperature on the mechanical properties of extrusion glass fiber reinforced polyamide 6.6 composites (GFRPA 6.6)*, Acta Technica Napocensis – Series: Applied Mathematics, Mechanics and Engineering, vol. 61, Issue II, pp. 213-218, ISSN 1221 – 5872, **2018**;
7. PANC Nicolae, Alina POPAN, Adrian Sever RADU, **Adrian POPESCU**, *The influence of silicon rubber aging on parts obtained in flexible molds*, Acta Technica Napocensis – Series: Applied Mathematics, Mechanics and Engineering, vol. 61, Issue III, pp. 363-368, ISSN 1221 – 5872, **2018**;
8. Vlad Bocăneț, **Adrian Popescu**, Cristina Fenișer, Iulian Tamba, *Study on the design and execution of a short fiber reinforced polyamide part*", MTeM, MATEC Web Conf., 299, <https://doi.org/10.1051/mateconf/201929906006>, **2019**;

9. PANC Nicolae, Mircea Cristian DUDESCU, Liana HANCU, **Adrian POPESCU**, **Aging influence upon some mechanical properties of silicon rubber**, Acta Technica Napocensis – Series: Applied Mathematics, Mechanics and Engineering, vol. 62, Issue II, ISSN 1221 – 5872, **2019**;
10. Andreea Elena Musteata, George Pelin, Mihail Botan, **Adrian Popescu**, Lorena Deleanu, *The Behavior of Polymeric Blends (PP + PA6) in Tensile Tests*, Materiale Plastice Journal , 57 (1), 153-166, <https://doi.org/10.37358/MP.20.1.5322>, **2020**;
11. **Adrian POPESCU**, Vlad BOCĂNEȚ, Emilia SABĂU, Carmen Gabriela BĂCILĂ, *Determination of the mechanical characteristics of polyamide 6.6 plastic reinforced with short glass fibers 30%*, Acta Technica Napocensis – Series: Applied Mathematics, Mechanics, and Engineering, Vol. 65, Issue II, June, pp. 179-184, ISSN 1221 – 5872, **2022**;
12. Popan, I.A. ; Trif, A ; Panc, N.A, ; **Popescu, A.C.** ; Popan, A.I. ; Pop, G.M. ; *Investigations of the quality characteristics of holes made by using indexable drills*, Acta Technica Napocensis Series-Applied Mathematics Mechanics And Engineering, Volume 65, Issue 3, Page. 339-344, Indexed, 2022-12-16, Published SEP. **2022**;
13. Gergő Norbert BOCZOR, Domnița FRĂȚILĂ, **Adrian POPESCU**, *Approach on the prevention and methods of eliminating defects occurring in the selective coating process using a 1k material*, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 66, Issue 4, October, ISSN 1221 – 5872, **2023**;
14. Emilia SABĂU, Alex Sebastian TIMBUS, Cristina Ștefana BORZAN, **Adrian Constantin POPESCU**, *Rotating frame design for photovoltaic panels*, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 66, Issue 4, October, ISSN 1221 – 5872, **2023**;
15. Emilia SABĂU, Mihai-Andrei DRAGOMIR, **Adrian POPESCU**, Brîndușa-Aniela RUSU, *Water flow simulation through the draft tube from a francis turbine*, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 66, Issue III, September, pg. 313-318, ISSN 1221 – 5872, **2023**;
16. Roxana Motorga, Vlad Mureșan, Mihai Abrudean, Iulia Clitan, Mihaela Unguresan, **Adrian Popescu**, *Advanced control of the 13C isotopic separation process using AI*, International Conference on Artificial Intelligence, Computer, Data Sciences and Applications (ACDSA), Paper ID: 385, February 01-02, 2024, Mahé, Seychelles, **Acceptată - în curs de publicare**;

17. Roxana Motorga, Mihai Abrudean, Vlad Mureșan, Valentin Sita, Cristian Bondici, **Adrian Popescu**, *Intelligent Model For A Mini Hydropower Plant And Its Adaptive Control*, International Conference on Artificial Intelligence, Computer, Data Sciences and Applications (ACDSA), Paper ID: 384, February 01-02, 2024, Mahé, Seychelles, **Acceptată - în curs de publicare.**

c2) Studii publicate la conferințe indexate în baze de date internaționale (DBLP, ACM, IEEE, SCOPUS)

1. Bere, P., Iancău, H., and **Popescu Adrian.**, *Compression test on tubes made of polymer composite materials*, Acta Technica Napocensis, Cluj-Napoca, series: applied mathematics and mechanics 52, vol. IV, ISSN 1221-9106, pag. 89-93, **2009**;
2. Bere, P., Iancău, H., Hancu, L., and **Popescu Adrian**, *Consideration regarding the behavior of the composite material tubes*, Annals Of MTeM For 2009 & Proceedings Of The 9th International Conference Modern Technologies In Manufacturing, MTeM, ISBN 973-9087-83-3, 9 – 12, October, Cluj-Napoca, pag 9 – 12, **2009**;
3. Sabău, E., Iancău, H., Potra, T., Hancu, L., and **Popescu Adrian**, *Cubic spline of regression with application at composite materials*, Of the 4th International Conference On Manufacturing Science and Education – MSE, Vol. I, ISSN 1843 – 2522, 4 – 6 June, Sibiu, pag. 71 – 74, **2009**;
4. Florea, C., Iancău, H., **Popescu Adrian**, Simon, M., and Bere, P., *Consideration regarding the manufacturing of the composite structures using the RTM process*, 3th International Conference Advanced Composite Materials Engineering COMAT, ISSN 1844 – 9336, 27- 29 October, Brasov, pag. 92 – 97, **2010**;
5. **Popescu Adrian**, Iancău H., și Florea, C., *Consideration regarding the influence of temperature into extrusion process of thermoplastic polymeric materials*, Acta Technica Napocensis, series: applied mathematics and mechanics 53, vol. IV, ISSN 1221-5872, Cluj-Napoca, pag. 705-711, **2010**;
6. Iancău, H., Florea, C., **Popescu Adrian**, *Theoretical and experimental research on the manufacture of composite structures using RTM process*, Acta Technica Napocensis, Cluj-Napoca, series: applied mathematics and mechanics 54, Issue I, ISSN 1221-5872, pag. 21-26, **2011**;
7. **Popescu Adrian**, Iancău, H., Hancu, Liana, Prună, R., *Research on extrusion optimization for reinforced polyamide*, Annals Of MTeM For 2011 & Proceedings of the 10th International Conference Modern Technologies In Manufacturing, MTeM **2011**, ISBN 973-7937-07-04, 6 - 8 October, Cluj-Napoca, pag. 275 – 278, **2011**;

8. Paul BERE, Petru BERCE, Ovidiu NEMEȘ, Nicolae CORDOȘ, **Popescu Adrian**, Emanuela COCIȘ, *Research regarding mechanical characteristics of carbon/epoxy composite tubes*, Academic Journal of Manufacturing Engineering – Ajme, ISSN 1583-7904, Vol 9, Issue 4 pag. 6 – 11, **2011**;
9. **Popescu Adrian**, Iancău, H., Bere, P., Simon, M., *Experimental and theoretic research regarding optimization extrusion process for polymers reinforced fiber (PA 6.6 – 30 % GF)*, Acta Tehnica Napocensis, Cluj Napoca, series: applied mathematics and mechanics 55, Issue I, ISSN 1221-5872, Pag.239-244, **2012**;
10. Bere P., Sabau E., Hancu L., **Popescu A.**, *Rapid manufacturing method for obtaining bent tubular parts made of carbon/epoxy*, Academic Journal of Manufacturing Engineering – Ajme, ISSN 1583-7904 Vol 11, ISSUE 4, pag. 128-131, **2013**;
11. Radu, S.A., **Popescu, A.**, Pacurar, A., Pacurar, R., Borzan, C., „*Research Considering The Fabrication Of Resin Parts Using Silicone Rubber Molds*”, Academic Journal of Manufacturing Engineering – Ajme, ISSN 1583-7904 Vol 11, ISSUE 3 pag. 92-95, **2013**;
12. **Popescu Adrian**, Hancu, L., Conțiu, G., *The Micro-Fracto-Graphic Analyse Of Extruded Products From Polyamide 6.6 Reinforced With Glass Fibers*, Acta Tehnica Napocensis, Cluj Napoca, series: applied mathematics and mechanics 56, Issue I, ISSN 1221-5872, pag.195-200, **2013**;
13. **Popescu Adrian**, Hancu, L., Sabău, E., Radu, S.A., *Mechanical Characteristics Improvement for Extruded Products Made of Reinforced Polyamide*, Acta Tehnica Napocensis, Cluj Napoca, series: Applied mathematics and mechanics 56, Issue II, ISSN 1221-5872, pag.201-204, **2014**;
14. **Popescu A.**, Hancu L., Bere P., and Miron B., C., *Experimental and Theoretic Research Regarding Extrusion Optimization for Reinforced Polyamide (PA 6.6 – 10 % GF)*, The 12th INTERNATIONAL CONFERENCE ON MODERN TECHNOLOGIES IN MANUFACTURING, Applied Mechanics and Materials Vol. 808, Trans Tech Publications, doi:10.4028/www.scientific.net/AMM.808.125, ISBN-13: 978-3-03835-653-0, Switzerland, pp. 125-130, **2015**;
15. Bere P., **Popescu A.**, and Hancu L., *Experimental Research Regarding the Tensile Strength of Some Reinforced Composite Materials*, The 12th INTERNATIONAL CONFERENCE ON MODERN TECHNOLOGIES IN MANUFACTURING, Applied Mechanics and Materials Vol. 808, Trans Tech Publications, doi:10.4028/www.scientific.net/AMM.808.131, ISBN-13: 978-3-03835-653-0, Switzerland, pp. 131-136, **2015**;

16. Hancu L., Iancău H., Bere P., and **Popescu A.**, *Research Concerning Chalk's Influence on Composite-Based Melamine's Compressive Strength*, The 12th INTERNATIONAL CONFERENCE ON MODERN TECHNOLOGIES IN MANUFACTURING, Applied Mechanics and Materials Vol. 808, Trans Tech Publications, doi:10.4028/www.scientific.net/AMM.808.149, ISBN-13: 978-3-03835-653-0, Switzerland, pp. 125-130, **2015**;
17. Pop G., Șteopan ., Conțiu G., and **Popescu A.**, *Some Researches Regarding the Surface Quality when Drilling Carbon Fiber Reinforced Composites*, INTERNATIONAL CONFERENCE ON MODERN TECHNOLOGIES IN MANUFACTURING, Applied Mechanics and Materials Vol. 808, Trans Tech Publications, doi:10.4028/www.scientific.net/AMM.808.155, ISBN-13: 978-3-03835-653-0, Switzerland, pp. 155-160, **2015**;
18. Bulej V., Kuric I., and **Popescu A.**, *The Mould Design for Production of Plastic Component by Injection Moulding Technology*, INTERNATIONAL CONFERENCE ON MODERN TECHNOLOGIES IN MANUFACTURING, Applied Mechanics and Materials Vol. 808, Trans Tech Publications, doi:10.4028/www.scientific.net/AMM.808.161, ISBN-13: 978-3-03835-653-0, Switzerland, pp. 161-166, **2015**;
19. Miron-Borzan C. Ș., Popan A., Ceclan V., **Popescu A.**, and Berce P., *Custom implants: Manufacturing principles and determination of psychological price*, INTERNATIONAL CONFERENCE ON MODERN TECHNOLOGIES IN MANUFACTURING, Applied Mechanics and Materials Vol. 808, Trans Tech Publications, doi:10.4028/www.scientific.net/AMM.808.169, ISBN-13: 978-3-03835-653-0, Switzerland, pp. 169-174, **2015**;
20. Hancu, L., Marc, G., **Popescu, A.**, Bere, P., Rodean, S., *Proposal for a composite structure and graphic design for a parking barrier*, MATEC Web Conf. Volume 137, 2017, Modern Technologies in Manufacturing (MTeM 2017 - AMaTUC), Article Number: 08004, Number of page(s): 6, Section: Processes of Plastics and Composite Materials, DOI <https://doi.org/10.1051/mateconf/201713708004>, Published online 22 November **2017**;
21. Sabau, E., **Popescu, A.**, Vilău C., *Mechanical behavior of composite materials using the finite element analysis*, MATEC Web Conf. Volume 137, 2017, Modern Technologies in Manufacturing (MTeM 2017 - AMaTUC), Article Number: 08006, Number of page(s): 6, Section: Processes of Plastics and Composite Materials, DOI: <https://doi.org/10.1051/mateconf/201713708006>, Published online 22 November **2017**;

22. Bere, P., Popescu, A., Dudescu, C., Hancu, L., *Influence of the stacking sequence on the mechanical properties of glass fiber reinforced polymer*, MATEC Web Conf. Volume 112, 2017, 21st Innovative Manufacturing Engineering & Energy International Conference – IManE&E 2017, Article Number: 04006, Number of page(s): 6. Section Advanced Materials, DOI: <https://doi.org/10.1051/mateconf/201711204006>, Published online 03 July 2017;
23. Emilia Sabău, **Adrian Popescu**, Cristian Vilau, *Mechanical behavior of composite materials using the finite element analysis*, MTeM - AMaTUC, MATEC Web of Conferences, Vol. 137, DOI: 10.1051/mateconf/201713708006, 2017;
24. Adrian Popescu, Ioan Turcin, *Considerations regarding the influence of temperature injection molding process of thermoplastic polymer*, International Conference on “Advanced Manufacturing Technologies”, Vol. 12, CAMPUS 02 University of Applied Sciences in Graz, Austria, 2018;
25. Emilia Sabău, Cristian Vilău, Paul Bere, **Adrian Popescu**, *Finite element simulation of delamination process in composite materials*, MTeM, MATEC Web of Conferences 299(2):06003, ISBN: 978-2-7598-9083-5, DOI: 10.1051/mateconf/201929906003, 2019;
26. Sabău E., **Popescu Adrian**, Miron-Borzan C.Ș., Panc N. *Mathematical regression model of unidirectional glass fibre reinforced polymer composites*, Academic Journal of Manufacturing Engineering – AJME, ISSN 1583-7904, vol. 17(3), pp. 108-112, 2019;
27. **Adrian Popescu**, Trif Adrian, *Sabău Emilia*, *Influence of processing parameters on extruded polymeric materials*, Academic Journal of Manufacturing Engineering – AJME, ISSN 1583-7904, vol. 18(4), pp. 119-123, 2020;
28. Sabău Emilia, Trif Adrian, Miron-Borzan Cristina-Ștefana, **Popescu Adrian**, *Numerical simulation of flexural behavior of glass fiber reinforced polymer composites*, Academic Journal of Manufacturing Engineering – AJME, vol. 19(1), pp. 52-56, 2021.

D – Lucrări publicate în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. **Popescu Adrian**, Iancău, H., Grozav, S., Hancu, L., Onețiu, G., *Consideration on extrusion of the tubes made of thermoplastic materials*, Proceedings of International Doctoral Seminar, AlumniPress, ISBN 978-80-8096-088-9, 17 – 19 May, Smolenice – Slovakia, pag. 278 – 285, 2009;

- Volume de conferințe cu referenți

1. Bere, P.; Berce, P.; Nemes, O.; Sabau, E.; Cordos, N.; **Popescu Adrian**; *Carbon/epoxy composite bent tubes with variable section manufacturing method*, 13th International Scientific Conference, Automation in Production Planning and Manufacturing, ISBN 978-80-89276-35-6, Žilina – Turčianske Teplice, 02 – 04 Mai, Slovak Republic, pag. 26-31, **2012**;
2. Ceclan, V.; Grozav, S.; Bâlc N.; **POPESCU Adrian**; Radu, A.; *Experimental research regarding bending tubes of aluminium*, 13th International Scientific Conference, Automation in Production Planning and Manufacturing, ISBN 978-80-89276-35-6, Žilina – Turčianske Teplice, 02 – 04 Mai, Slovak Republic, pag. 36-39, **2012**;
3. **Popescu, Adrian**; Grozav, S.; Radu, A.; Bere, P.; Ceclan, V.; *Experimental and theoretic research regarding extrusion optimization for reinforced polyamide (PA 6.6 – 20 % GF)*, 13th International Scientific Conference, Automation in Production Planning and Manufacturing, ISBN 978-80-89276-35-6, Žilina – Turčianske Teplice, 02 – 04 Mai, Slovak Republic, pag. 184-187, **2012**;
4. Radu, S.A.; Grozav, S.; **POPESCU, Adrian**; Contiu, G.; Ceclan, V.; *The comparing of the roughness obtained by three rapid prototyping systems (LOM, FDM and SLS)*, 13th International Scientific Conference, Automation in Production Planning and Manufacturing, ISBN 978-80-89276-35-6, Žilina – Turčianske Teplice, 02 – 04 Mai, Slovak Republic, pag. 194-199, **2012**;
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6. **Popescu, A.**, Grozav, S., Kuric, I., Ceclan, V., Trif, A., *Theoretical Aspects on Extrusion Plastic Materials*, 15th International Scientific Conference, Automation in Production Planning and Manufacturing, ISBN 978-80-554-0878-1, EAN 9788055408781, Žilina – Oščadinca Slovak Republic, 19 – 21 Mai , pag. 146-150, **2014**;
7. Ceclan, V., Grozav, S., Kuric, I., Borzan, C.Ş., **Popescu, A.**, Trif, A., *Theoretical Research Regarding the Mecanical Characteristic Hydrofoming Tubular Specimens*, 15th International Scientific Conference, Automation in Production Planning and Manufacturing, ISBN 978-80-554-0878-1, EAN 9788055408781, Žilina – Oščadinca Slovak Republic, 19 – 21 Mai , pag. 51-55, **2014**;

8. Trif, A., Borzan, M., Frățilă, D., Ceclan, V., **Popescu, A.**, Popan, A., *Research Regarding the Influence of Temperature on Carbide Inserts in Turning Process*, 15th International Scientific Conference, Automation in Production Planning and Manufacturing, ISBN 978-80-554-0878-1, EAN 9788055408781, Žilina – Oščadnica Slovak Republic, 19 – 21 Mai , pag. 170-174, **2014**;
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12. Miron A. V., Borzan M., Ceclan V., Miron-Borzan C.S., **Popescu A.** *Case study of simulation for a superplastic forming*, 16th International Conference „Automation in Production Planning and Manufacturing“, Zilina – Oscadnica, Slovak Republik, ISBN 978-80-89276-47-9, pg 88-93, **2015**;
13. Mărieș M., Vușcan I., Grozav S., Panc N., **Popescu A.**, *Vertical axis wind turbine blade design*, 16th International Conference „Automation in Production Planning and Manufacturing, Zilina – Oscadnica, Slovak Republik, ISBN 978-80-89276-47-9, pg 75-79, **2015**.

E – Brevete obținute pentru întreaga activitate

1. -

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Semnătura

