

Nume Prenume: Tamaşag Ioan  
Gradul didactic: Asistent universitar doctor inginer  
Instituția: Universitatea "Ștefan cel Mare" din Suceava  
Facultatea: Inginerie Mecanică, Autovehicule și Robotică  
Departamentul: Mecanică și Tehnologii

### Lista completă de lucrări

- (a) lista celor maximum 10 lucrări considerate de candidat a fi cele mai relevante pentru realizările profesionale proprii, care sunt incluse în format electronic în dosar și care se pot regăsi și în celelalte categorii de lucrări prevăzute de prezentul articol;
- (b) teza sau tezele de doctorat;
- (c) brevete de invenție și alte titluri de proprietate industrială;
- (d) cărți și capitole în cărți;
- (e) articole/studii in extenso, publicate în reviste din fluxul științific internațional;
- (f) publicații in extenso, apărute în lucrări ale conferințelor internaționale de specialitate;
- (g) alte lucrări și contribuții științifice sau, după caz, din domeniul creației artistice.

#### A Lucrări considerate a fi cele mai relevante pentru realizările profesionale proprii

A1. **Tamaşag, I.**; Beşliu-Băncescu, I.; Severin, T.-L.; Dulucheanu, C.; Cerlincă, D.-A. Experimental Study of In-Process Heat Treatment on the Mechanical Properties of 3D Printed Thermoplastic Polymer PLA. *Polymers* 2023, 15, 2367. <https://doi.org/10.3390/polym15102367>, WOS:000997732700001 - **Q1, Autor principal**

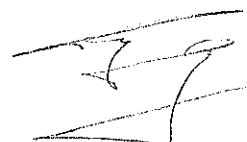
A2. **Tamaşag, I.**; Suci, C.; Beşliu-Băncescu, I.; Dulucheanu, C.; Cerlincă, D.-A. Experimental Study on the Possibilities of FDM Direct Colour Printing and Its Implications on Mechanical Properties and Surface Quality of the Resulting Parts. *Polymers* 2022, 14, 5173. <https://doi.org/10.3390/polym14235173>, WOS:000897411200001 - **Q1, Autor principal**

A3. **TAMASAG, I.**, AMARANDEI, D., BESLIU, I., Some Insights on Chemical Treatment of 3D Printed Parts, *Mater. Plast.*, 59(1), 2022, 18-32. <https://doi.org/10.37358/MP.22.1.5556>, WOS:000783749900002 - **Q4, Autor principal**

A4. Beşliu-Băncescu, I.; **Tamaşag, I.**; Slătineanu, L. Influence of 3D Printing Conditions on Some Physical-Mechanical and Technological Properties of PCL Wood-Based Polymer Parts Manufactured by FDM. *Polymers* 2023, 15, 2305. <https://doi.org/10.3390/polym15102305>, WOS:000997377000001 - **Q1, Autor corespondent**

A5. Cerlincă, DA., **Tamaşag, I.**, Beşliu-Băncescu, I. et al. Experimental investigation of FDM manufacturing of 316 L stainless steel. *Int J Adv Manuf Technol* 135, 1449–1463 (2024). <https://doi.org/10.1007/s00170-024-14602-8>, WOS:001335710100004 - **Q2, Autor corespondent**

A6. Beşliu-Băncescu, Irina, **Tamaşag, Ioan**, Heat Treatment Effect on Some Mechanical Properties of FDM-Manufactured PCL Wood-Based Biopolymer, *Advances in Polymer Technology*, 2024, 7432507, 15 pages, 2024. <https://doi.org/10.1155/2024/7432507>, WOS:001258096800001 - **Q2**



A7. Beșliu, Irina, **Tamașag, Ioan**, Mihalache, Andrei, Geometrical and Dimensional Accuracy of Pine-Based Polymer Composites Produced by FDM, *International Journal of Polymer Science*, 2026, 3357501, 11 pages, 2026. <https://doi.org/10.1155/ijps/3357501>, WOS:001673698600001 - Q2

A8. Beșliu-Băncescu, I., **Tamașag, I.** & Slătineanu, L. The influence of the machining strategy on milling of polyetheretherketone (PEEK). *Int J Adv Manuf Technol* 132, 2773–2785 (2024). <https://doi.org/10.1007/s00170-024-13544-5>, WOS:001196264700002 - Q2

A9. Severin, T.-L.; Paleu, V.; Bejinariu, C.; Giurma-Handley, C.-R.; **Tamasag, I.**; Cimpoesu, N.; Lupescu, S.C.; Zegan, G.; Roman, A.-M.; Bădărașu, G.; et al. Comparative Wear Evaluation of Pure Zn, Zn–Mg and Zn–Mg–Y Alloys Using Mass Loss Measurements and Optical Profilometry. *Materials* 2026, 19, 1211. <https://doi.org/10.3390/ma19061211>, WOS:001726052700001 - Q2

A10. Alaci, S.; Ciornei, F.-C.; Romanu, I.-C.; Doroftei, I.; Bujoreanu, C.; **Tamașag, I.** A Rapid and Inexpensive Method for Finding the Basic Parameters of Involute Helical Gears. *Appl. Sci.* 2024, 14, 2043. <https://doi.org/10.3390/app14052043>, WOS:001182247700001 - Q2

#### **B. Teza de doctorat**

Ioan TAMAȘAG, Contribuții la Studiul Fenomenului de Frecare la Așchiera cu Scule cu Tăiș a Materialelor Dure, conducător științific prof.univ.dr.ing. Dumitru AMARANDEI, Universitatea Ștefan cel Mare Suceava, Domeniul Inginerie Industrială, Dată susținere publică: 16/09/2021, an emitere OM 2021, cod dosar: [F-CA-40361/21.09.2021](#)

#### **C. Brevete de invenție și alte titluri de proprietate industrială**

-

#### **D. Cărți și capitole în cărți publicate în ultimii 10 ani**

D1. Traian Lucian Severin, Tamașag Ioan, Tehnologii de prelucrare prin Deformare plastică la Rece, Editura Universității "Ștefan cel Mare" Suceava, 2024, ISBN 978-973-666-815-9, pag. 186

D2. Dumitru Amarandei, Irina Beșliu-Băncescu, Delia-Aurora Cerlincă, Ioan Tamașag, Echipamente și Tehnologii de Fabricație, Editura Universității "Ștefan cel Mare" Suceava, 2025, ISBN 978-973-666-837-1, pag. 234

#### **E. Articole/studii in extenso, publicate în reviste din fluxul științific internațional;**

E1. TAMASAG, I., AMARANDEI, D., BESLIU, I., Some Insights on Chemical Treatment of 3D Printed Parts, *Mater. Plast.*, 59(1), 2022, 18-32. <https://doi.org/10.37358/MP.22.1.5556>, WOS:000783749900002

E2. Tamașag, I.; Suciu, C.; Beșliu-Băncescu, I.; Dulucheanu, C.; Cerlincă, D.-A. Experimental Study on the Possibilities of FDM Direct Colour Printing and Its Implications on Mechanical Properties and Surface Quality of the Resulting Parts. *Polymers* 2022, 14, 5173. <https://doi.org/10.3390/polym14235173>, WOS:000897411200001

- E3. Beşliu-Băncescu, I.; Tamaşag, I.; Slătineanu, L. Influence of 3D Printing Conditions on Some Physical–Mechanical and Technological Properties of PCL Wood-Based Polymer Parts Manufactured by FDM. *Polymers* 2023, 15, 2305. <https://doi.org/10.3390/polym15102305>, WOS:000997377000001
- E4. Tamaşag, I.; Beşliu-Băncescu, I.; Severin, T.-L.; Dulucianu, C.; Cerlincă, D.-A. Experimental Study of In-Process Heat Treatment on the Mechanical Properties of 3D Printed Thermoplastic Polymer PLA. *Polymers* 2023, 15, 2367. <https://doi.org/10.3390/polym15102367>, WOS:000997732700001
- E5. Alaci, S.; Ciornei, F.-C.; Romanu, I.-C.; Doroftei, I.; Bujoreanu, C.; Tamaşag, I. A New Direct and Inexpensive Method and the Associated Device for the Inspection of Spur Gears. *Machines* 2023, 11, 1046. <https://doi.org/10.3390/machines11121046>, WOS:001130835100001
- E6. Alaci, S.; Ciornei, F.-C.; Romanu, I.-C.; Doroftei, I.; Bujoreanu, C.; Tamaşag, I. A Rapid and Inexpensive Method for Finding the Basic Parameters of Involute Helical Gears. *Appl. Sci.* 2024, 14, 2043. <https://doi.org/10.3390/app14052043>, WOS:001182247700001
- E7. Beşliu-Băncescu, I., Tamaşag, I. & Slătineanu, L. The influence of the machining strategy on milling of polyetheretherketone (PEEK). *Int J Adv Manuf Technol* 132, 2773–2785 (2024). <https://doi.org/10.1007/s00170-024-13544-5>, WOS:001196264700002
- E8. Beşliu-Băncescu, Irina, Tamaşag, Ioan, Heat Treatment Effect on Some Mechanical Properties of FDM-Manufactured PCL Wood-Based Biopolymer, *Advances in Polymer Technology*, 2024, 7432507, 15 pages, 2024. <https://doi.org/10.1155/2024/7432507>, WOS:001258096800001
- E9. Cerlincă, DA., Tamaşag, I., Beşliu-Băncescu, I. et al. Experimental investigation of FDM manufacturing of 316 L stainless steel. *Int J Adv Manuf Technol* 135, 1449–1463 (2024). <https://doi.org/10.1007/s00170-024-14602-8>, WOS:001335710100004
- E10. Beşliu, Irina, Tamaşag, Ioan, Mihalache, Andrei, Geometrical and Dimensional Accuracy of Pine-Based Polymer Composites Produced by FDM, *International Journal of Polymer Science*, 2026, 3357501, 11 pages, 2026. <https://doi.org/10.1155/ijps/3357501>, WOS:001673698600001
- E11. Irina BEŞLIU, Ioan TAMAŞAG, Laurenţiu SLĂTINEANU, EXPERIMENTAL STUDIES ON APPLYING CRYOGENIC COOLING BEFORE HARD TURNING OF 100CR6 (AISI 52100). *ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING*, Volume 68, Issue3-4, Page 1047-1054, WOS:001704575800012
- E12. Severin, T.-L.; Paleu, V.; Bejinariu, C.; Giurma-Handley, C.-R.; Tamasag, I.; Cimpoesu, N.; Lupescu, S.C.; Zegan, G.; Roman, A.-M.; Bădăraş, G.; et al. Comparative Wear Evaluation of Pure Zn, Zn–Mg and Zn–Mg–Y Alloys Using Mass Loss Measurements and Optical Profilometry. *Materials* 2026, 19, 1211. <https://doi.org/10.3390/ma19061211>, WOS:001726052700001

E13. Florina-Carmen Ciornei, Stelian Alaci, Dumitru Amarandei, Constantin Filote and Ioan Tămășag, Rigidity versus deformability hypothesis in impact dynamics, MATEC Web of Conferences 112, 07005 (2017), DOI: 10.1051/mateconf/201711207005, WOS:000579349600120"

E14. Irina Beșliu, Ioan Tamașag, Effect of cooling condition over surface quality in turning of aluminium alloy 6082-T6, IOP Conf. Series: Materials Science and Engineering 564 (2019) 012009, doi:10.1088/1757-899X/564/1/012009, WOS:000562599900009"

E15. Irina Beșliu, Ioan Tamașag and Laurențiu Slătineanu, An Experimental Study on Incremental Forming Process of Polycarbonate Sheets, Macromol. Symp. 2021, 395, 2000282, DOI: 10.1002/masy.202000282, WOS:000620698500035"

E16. Ioan Tamașag, Irina Beșliu, and Dumitru Amarandei, Application of Reverse Engineering for Automotive Plastic Components – Case Study, Macromol. Symp. 2021, 395, 2000265, DOI: 10.1002/masy.202000265, WOS:000620698500005"

E17. Cerlincă, DA., Tamașag, I., Beșliu-Băncescu, I. (2025). The Influence of Interlayer Ironing on Dimensional Accuracy of ASA MEX Manufactured Parts. In: Chiru, A., Covaciu, D. (eds) CONAT 2024 International Congress of Automotive and Transport Engineering. CONAT 2024. Proceedings in Automotive Engineering. Springer, Cham. [https://doi.org/10.1007/978-3-031-77631-1\\_22](https://doi.org/10.1007/978-3-031-77631-1_22), WOS:001462624600022"

**F Publicații in extenso, apărute în lucrări ale conferințelor internaționale de specialitate;**

F1. Stelian Alaci, Florina-Carmen Ciornei, Florentin Buium, Erwin-Vasile Alexandru, Gheorghita Sopon, Ioan Tamasag, A METHOD FOR DETERMINING THE ROLLING FRICTION TORQUE IN A THRUST BEARING. PART I, Tehnomus Journal, New Technologies and Products in Machine Manufacturing Technologies No.25 Year: 2018

F2. Florina-Carmen Ciornei, Stelian Alaci, Florentin Buium, Erwin-Vasile Alexandru, Ioan Tamasag, Gheorghita Sopon, A METHOD FOR DETERMINING THE ROLLING FRICTION TORQUE IN A THRUST BEARING. PART II, Tehnomus Journal, New Technologies and Products in Machine Manufacturing Technologies No.25 Year: 2018

F3. I Tamașag, D Amarandei and I Beșliu, Design of a device for testing and analyzing the friction coefficient during metal cutting, IOP Conf. Series: Materials Science and Engineering 568 (2019) 012100, doi:10.1088/1757-899X/568/1/012100

F4. Tamașag Ioan, Beșliu Irina, Amarandei Dumitru, EXPERIMENTAL INVESTIGATION OF CUTTING FORCE VARIATION ALONG THE TOOL CUTTING EDGE, Tehnomus Journal, New Technologies and Products in Machine Manufacturing Technologies No.26 Year: 2019

F5. Tamașag Ioan, Beșliu Irina, Amarandei Dumitru, EXPERIMENTAL INVESTIGATION ON TURNING OF CASE-HARDENED 21NiCrMo2 CEMENTATION STEEL, Tehnomus Journal, New Technologies and Products in Machine Manufacturing Technologies No.27 Year: 2020

- F6. Besliu Bancescu, I., Tamasag, I., Slatineanu, L., and Cerlinca, D., "Study of Incremental Forming Process of Polycarbonate Sheets," SAE Technical Paper 2021-01-0835, 2021, doi:10.4271/2021-01-0835
- F7. Ioan TAMAŞAG, Lucian ISPAS, Claudiu Marian PICUS, Traian Lucian SEVERIN, Constantin DULUCHEANU, ANNEALING INFLUENCE ON 3D PRINTED PARTS WITH AMORFOUS STRUCTURES, Tehnomus Journal  
New Technologies and Products in Machine Manufacturing Technologies No.28 Year: 2021
- F8. Manolache-Rusu Ioan-Cozmin, Suciuc Cornel, Tamaşag Ioan, Picus Claudiu-Marian, PRELIMINARY INVESTIGATIONS UPON THE INFLUENCE OF CNC MILLING STRATEGY ON HARDWOOD SURFACE PARAMETERS, Tehnomus Journal, New Technologies and Products in Machine Manufacturing Technologies No.28 Year: 2021
- F9. Ioan TAMAŞAG, Irina BEŞLIU-BĂNCESCU, Traian Lucian SEVERIN, Ioan-Cozmin MANOLACHE-RUSU, Irinel Vasile EŞI, EXPERIMENTAL COMPARISON OF ABS-LIKE RESIN AND ABS FILAMENT USED IN ADDITIVE MANUFACTURING, Tehnomus Journal, New Technologies and Products in Machine Manufacturing Technologies No.29 Year: 2022
- F10. Constantin DULUCHEANU, Traian Lucian SEVERIN, Delia Aurora CERLINCĂ, Ioan TAMAŞAG, Luminita IRIMESCU, LABORATORY STUDIES OF A DUAL-PHASE STEEL WITH 0.53% MN STRUCTURES, Tehnomus Journal, New Technologies and Products in Machine Manufacturing Technologies No.29 Year: 2022
- F11. Lucian ISPAS, Costel MIRONEASA, Ioan TAMAŞAG, Claudiu Marian PICUS, STUDY ON THE OPTIMAL METHODS AND METHODOLOGIES USED IN INTEGRATED MANAGEMENT SYSTEMS IMPLEMENTATION RESEARCH, Tehnomus Journal New Technologies and Products in Machine Manufacturing Technologies No.29 Year: 2022
- F12. Ioan TAMAŞAG, Irina BEŞLIU-BĂNCESCU, Dumitru AMARANDEI, Traian Lucian SEVERIN, Constantin DULUCHEANU, UNIVERSAL TENSILE GRIP FOR UNI-AXIAL TESTING OF 3D PRINTED SPECIMENS, Tehnomus Journal, New Technologies and Products in Machine Manufacturing Technologies No.29 Year: 2022
- F13. Ioan TAMAŞAG, Irina BEŞLIU-BĂNCESCU, Ilie MUSCĂ, A SIMPLE NON-CONTACT METHOD TO EVALUATE HIGH DEFORMABLE BODIES DEFORMATION, Tehnomus Journal, New Technologies and Products in Machine Manufacturing Technologies No.30 Year: 2023
- F14. Beniuga Marius-Constantin, Tamaşag Ioan, EXPERIMENTAL STUDY ON THE OPTIMIZATION OF AIR FLOW FOR INTAKE SYSTEMS, Tehnomus Journal, New Technologies and Products in Machine Manufacturing Technologies No.30 Year: 2023
- F15. I. C. Manolache-Rusu, I. Tamaşag, and I. Beşliu-Băncescu "Surface roughness investigation of CNC pocket milling of hardwood beech", Proc. SPIE 12493, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies XI, 124931R (2 March 2023); <https://doi.org/10.1117/12.2643135>

F16. Tamaşag Ioan, Beniuga Marius-Constantin, THE USE OF REVERSE ENGINEERING FOR THE ELIMINATION OF STRESS CONCENTRATORS IN AUTOMOTIVE PARTS – CASE STUDY, Tehnomus Journal, New Technologies and Products in Machine Manufacturing Technologies No.30 Year: 2023

F17. Irina BEŞLIU- BĂNCESCU, Ioan TAMAŞAG, DESIGN AND FABRICATION OF A BALL BURNISHING DEVICE FOR SURFACE FINISH ADAPTABLE ON A PLANT LATHE, Tehnomus Journal, New Technologies and Products in Machine Manufacturing Technologies No.30 Year: 2024

F18. Constantin DULUCHEANU, Cristian CALANCEA, Traian – Lucian SEVERIN, Delia - Aurora CERLINĂ, Ioan TAMAŞAG, Luminitan IRIMESCU, . THE INFLUENCE OF THE VOLUME FRACTION OF MARTENSITE ON THE ABSORBED ENERGY IN THE CHARPY PENDULUM IMPACT TEST OF A DUAL-PHASE STEEL WITH 1.15% Mn and 1% Cr, Tehnomus Journal, New Technologies and Products in Machine Manufacturing Technologies No.30 Year: 2024

F19. Florin-Sorin Todirică, Ioan Tamaşag, Nicanor Cimpoesu, MATHEMATICAL MODELING AND ADVANCED ANALYSIS OF THE ND:YAG LASER WELDING PROCESS USING SPECTROSCOPIC METHODS, Tehnomus Journal, New Technologies and Products in Machine Manufacturing Technologies No.31 Year: 2025

F20. Ştefan Constantin LUPESCU, Traian Lucian SEVERIN, Ioan TAMAŞAG, Delia CERLICĂ, SIMULATION OF THE IMPACT BETWEEN TWO VEHICLES IN PC-CRASH, ANALYSIS AND CALCULATIONS FOR THE SIDE IMPACT BETWEEN ANAUDI A4 QUATTRO AND A MERCEDES-BENZ C320, Tehnomus Journal, New Technologies and Products in Machine Manufacturing Technologies No.31 Year: 2025

**E. Alte lucrări şi contribuţii ştiinţifice sau, după caz, din domeniul creaţiei artistice.**

Data:  
12.05.2026

Semnătura:

