

Lista Publicații

A. Teza de doctorat

- [BUI'19] **G.R. Buican, (2019).** *Cercetări privind fabricarea prin topire selectivă cu laserul a pieselor din oțel inox 316 L.* teza de doctorat, Universitatea Transilvania din Brasov, Facultatea Inginerie Tehnologica si Management Industrial, Dep. ITMI.

B. Cărți si capitole în cărți publicate

- [BUI'22] **G.R. Buican, (2022).** *Introducere în Ingineria Aerospațială. Îndrumar de laborator.* Editura Universității Transilvania din Brașov, 2022. ISBN978-606-19-1503-3.

C. Lucrări indexate ISI/BDI publicate

- [BUI'14] **Buican, G.R., Oancea, G., Manolescu, A., (2014).** *Remanufacturing of Damaged Parts Using Selective Laser Melting Technology*, Applied Mechanics and Materials, Vol. 693, pp. 285-290;
- [BUI'15] **Buican, G.R., Oancea, G., Lancea, C., Pop, M.A., (2015).** *Influence of Layer Thickness on Internal Structure of Parts Manufactured from 316-L Steel Using SLM Technology*, Applied Mechanics and Materials, vol. 809-810, pp. 369-374;
- [BUI'15b] **Buican, G.R., Oancea, G., Lancea, C., Pop, M.A., (2015).** *Some considerations regarding micro hardness of parts manufactured from 316-L steel using SLM technology*, Applied Mechanics and Materials, Vol. 760, pp. 515-520;
- [BUI'16] **Buican, G.R., Oancea, G., Rui, F. M., (2017).** *Study on SLM manufacturing of teeth used for dental tools testing*, MATEC Web Conf., The 4th International Conference on Computing and Solutions in Manufacturing Engineering 2016 - CoSME'16, Vol. 94, pp. 1-10;
- [BUI'21] **G.R. Buican, S.M. Zaharia, M.A. POP, L.A. Chicos, C. Lancea, V.M. Stamate, I.S. Pascariu, (2021).** *Fabrication and Characterization of Fiber-Reinforced Composite Sandwich Structures Obtained by Fused Filament Fabrication Process*, Coatings 2021, vol. 11(5), pp.601, **Factor de impact 2.881, Scor relativ de influență 1**, Q2 (zona galbenă), <https://doi.org/10.3390/coatings11050601>;
- [BUI'22] **G.R. Buican, S.M. Zaharia, I.S. Pascariu, L.A. Chicos, C. Lancea, M.A. POP, V.M. Stamate, (2022).** *Mission management for an automated pilot system mounted on a fixed-wing twin-engine airplane UAV*, Scientific research and education in the air force – AFASES 2022
- [BUI'22B] **G.R. Buican, S.M. Zaharia, I.S. Pascariu, L.A. Chicos, C. Lancea, M.A. POP, V.M. Stamate, (2022).** *Development and implementation of an automated pilot system for a fixed-wing twin-engine airplane UAV*, Scientific research and education in the air force – AFASES 2022
- [CHI'22] **L.A. Chicos, M.A. POP, S.M. Zaharia, C. Lancea, G.R. Buican, I.S. Pascariu, V.M. Stamate, (2022).** *Infill Density Influence on Mechanical and Thermal Properties of Short Carbon Fiber-Reinforced Polyamide Composites Manufactured by FFF Process*, Materials, Vol. 15, Issue 10, pp. 3706, M.D.P.I. 2022, **Factor de impact 3.748, Scor relativ de influență 1.882**, Q1 (zona roșie), <https://doi.org/10.3390/ma15103706>

- [LAN'21] **C. Lancea, S.M. Zaharia, M.A. Pop, G.R. Buican, (2021).** *The heat treatment influence on microstructure and mechanical properties of TiAl6V4 parts manufactured by SLM*, IOP Conference Series: Materials Science and Engineering, Vol. 1009, Issue 1, pp. 012029;
- [LAN'21b] **C. Lancea, V.M. Stamate, L.A. Chicos, S.M. Zaharia, M.A. Pop, I.S. Pascariu, G.R. Buican, (2021).** *Design and additive manufacturing of brushless electric motor components*, MATEC Web of Conferences, Vol. 343, 01007, MSE 2021.
- [LAN'22] **C. Lancea, L.A. Chicos, S.M. Zaharia, M.A. Pop, I.S. Pascariu, G.R. Buican, V.M. Stamate, (2022).** *Simulation, Fabrication and Testing of UAV Composite Landing Gear*, Applied Sciences, Vol. 12, Issue 17, pp. 8598, MDPI 2022, **Factor de impact 2.838, Scor relativ de influență 0.885**, Q2 (zona galbenă), <https://doi.org/10.3390/app12178598>
- [LOI'16] **Loios, G., Martins, R.F., Ginjeira, A., Dragoi, M.V., Buican, G.R., (2016).** *Fatigue resistance of rotary endodontic files submitted to axial motion in multiplanar canals manufactured by 3D printing*, XVIII International Colloquium on Mechanical Fatigue of Metals (ICMFM XVIII), Procedia Engineering, Vol. 160, pp. 117 - 122
- [POP'22] **M.A. Pop, S.M. Zaharia, L.A. Chicos, C. Lancea, V.M. Stamate, G.R. Buican, I.S. Pascariu, (2022).** *Effect of the infill patterns on the mechanical properties of the carbon fiber 3D printed parts*, IOP Conference Series: Materials Science and Engineering, Vol. 1235, Issue. 1, pp. 012006, IOP Publishing 2022.
- [ROH'20] **M.G. Rohan, G.R. Buican, (2020).** *Methods of avoiding the yaw of helicopters*, Comat 2020 & eMECH 2020
- [OAN'19] **G. Oancea, G.R. Buican, (2019).** *Remanufacturing of parts using additive processes. case studies*, Applied Mechanics, Ro. J. Techn. Sci. –Appl. Mechanics, Vol. 64, No3, P. 206–216, Bucharest,;
- [ZAH'22] **S.M. Zaharia, M.A. Pop, L.A. Chicos, G.R. Buican, C. Lancea, I.S. Pascariu, V.M. Stamate, (2022).** *Compression and Bending Properties of Short Carbon Fiber Reinforced Polymers Sandwich Structures Produced via Fused Filament Fabrication Process*, Polymers, Vol. 14, Issue 14, pp. 2923, MDPI 2022, **Factor de impact 4.967, Scor relativ de influență 1.961**, Q1 (zona roșie), <https://doi.org/10.3390/polym14142923>

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

- Reviste

- Lucrări în volume de conferințe

- [BUI'07] **Buican, G.R., Zaharia, S.M., Martinescu, I., (2007).** *Simulation of Reliability parameters using the Monte Carlo Method*, Tehnologii Moderne, Calitate, Restructurare, Vol. 1, pp. 17-21;
- [BUI'07b] **Buican, G.R., Zaharia, S.M., Martinescu, I., (2007).** *Study about Reliability life testing and types of data*, Tehnologii Moderne, Calitate, Restructurare, Vol. 1, pp. 21-26;
- [ZAH'07] **Zaharia S., Buican G., Martinescu I., (2007).** *Analytical Determination of Reliability using the general equation of reliability, used in probabilistic design of mechanical systems*, Challenges in higher education and research in the 21-st century, Technical University of Sofia, Bulgaria;
- [ZAH'07b] **Zaharia S., Buican G., Martinescu I., (2007).** *A study about reliability tests with suspended elements*, Challenges in higher education and research in the 21-st century, Technical University of Sofia, 5-9 June, Bulgaria;

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E. Brevete obținute în întreaga activitate

[ZAH'22] Zaharia, S.-M., Pascariu, I.S.; Stamate, V.-M.; Chicos, L.-A.; Buican, G.R.; Pop, M.A.; Lancea, C. **Avion fără pilot fabricat din materiale compozite utilizând tehnologii aditive**, Nr. de înregistrare OSIM, A/00572/19.09.2022.

