

Universitatea Transilvania din Braşov

Facultatea: Inginerie tehnologică și management industrial

Departamentul: Ingineria fabricației

LISTA DE LUCRĂRI

A. LUCRĂRI RELEVANTE (maxim 10)

1. **Zaharia, S.M.**, Enescu, L.A., Pop, M.A., (2020). Mechanical Performances of Lightweight Sandwich Structures Produced by Material Extrusion-Based Additive Manufacturing, *Polymers*, vol. 12, 1740, ISSN: 2073-4360, **FI 4,329**, WOS:000564679500001, http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=E4WSU2DcolteJD3P5cs&page=1&doc=1
2. **Zaharia, S. M.**, Pop, M. A., Chicos, L. A., Buican, G. R., Lancea, C., Pascariu, I. S., Stamate, V. M. (2022). Compression and bending properties of short carbon fiber reinforced polymers sandwich structures produced via fused filament fabrication process. *Polymers*, vol. 14, no. 14, pp. 2923, ISSN: 2073-4360, **FI 5**, WOS: 000831977400001, <https://www.webofscience.com/wos/woscc/full-record/WOS:000831977400001>
3. **Zaharia, S. M.**, Pascariu, I. S., Chicos, L. A., Buican, G. R., Pop, M. A., Lancea, C., Stamate, V. M. (2023). Material Extrusion Additive Manufacturing of the Composite UAV Used for Search-and-Rescue Missions. *Drones*, vol. 7, nr. 10, pp. 602, ISSN: 2504-446X, **FI 4.8**, WOS:001092500000001, <https://www.webofscience.com/wos/woscc/full-record/WOS:001092500000001>
4. **Zaharia, S. M.**, Pop, M. A., Buican, G. R., Chicos, L. A., Stamate, V. M., Pascariu, I. S., & Lancea, C. (2023). Design and Testing of Brushless DC Motor Components of A6 Steel Additively Manufactured by Selective Laser Sintering. *Aerospace*, vol. 10, nr.1, pp. 60, ISSN: 2226-4310, **FI 2.6**, WOS: 000916773600001, <https://www.webofscience.com/wos/woscc/full-record/WOS:000916773600001>
5. **Zaharia, S.M.**, Morariu, C.O., Nedelcu, A., Pop, M.A., (2017). Experimental Study of Static and Fatigue Behavior of CFRP-Balsa Sandwiches under Three-point Flexural Loading, *BioResources*, vol. 12, nr. 2, pag. 2673 – 2689, ISSN: 1930-2126, **FI 1,202**, WOS:000402883700032 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=E4WSU2DcolteJD3P5cs&page=2&doc=16
6. **Zaharia, S.M.**, Chicoş, L.A., Lancea, C., Pop, M.A., (2020). Effects of Homogenization Heat Treatment on Mechanical Properties of Inconel 718 Sandwich Structures

Manufactured by Selective Laser Melting, Metals, vol. 10, 645, ISSN: 2075-4701, FI 2,351, WOS:000540220000093

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7. **Zaharia, S.M.**, Pop, M.A., Udriou, R., (2020). Reliability and Lifetime Assessment of Glider Wing's Composite Spar through Accelerated Fatigue Life Testing, Materials, vol. 13, 2310, ISSN: 1996-1944, **FI 3,623**, WOS:000539277000102,

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8. **Zaharia, S.M.**, Lancea, C., Chicoş, L.A., Pop, M.A., Caputo, G., Serra, E., (2017) Mechanical properties and corrosion behaviour of 316L stainless steel honeycomb cellular cores manufactured by selective laser melting. Transactions of FAMENA, vol. 41, nr. 4, pag. 11–24, ISSN: 1333-1124, **FI 0,797**, WOS:000431808800002

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9. **Zaharia, S.M.**, (2019). The methodology of fatigue lifetime prediction and validation based on accelerated reliability testing of the rotor pitch links, Eksploatacja i Niezawodność – Maintenance and Reliability, vol. 21, nr. 4, pag. 638–644, ISSN: 1507-2711, **FI 1,525**, WOS:000486626700012,

http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=E4WSU2DcolteJD3P5cs&page=1&doc=8

10. **Zaharia, S.M.**, Pop, M.A., Semenescu, A., Florea, B., Chivu, O.R., (2017). Mechanical Properties and Fatigue Performances on Sandwich Structures with CFRP Skin and Nomex Honeycomb Core, Materiale Plastice, vol. 54, nr. 1, pag. 67-72, ISSN: 0025-5289, **FI 1,248**, WOS:000400629900016

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TEZA DE DOCTORAT

Cercetări teoretice și experimentale privind încercările accelerate de fiabilitate, Universitatea Transilvania din Brașov, 2010.

Coordonator doctorat: Prof. dr. ing. Ionel MARTINESCU , Domeniu: Inginerie industrială

TEZA DE ABILITARE

Cercetări privind fiabilitatea, testarea accelerată și fabricarea aditivă a produselor industriale, Universitatea Transilvania din Brașov, 2021. Domeniu: Inginerie industrială

BREVETE

1. **Zaharia, S.M.**, Stamate, V.M., (2020), Test bench of the fatigue strength of the blades and test method, Nr. RO 129022 B1.

CĂRȚI / CAPITOLE DE CĂRȚI

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2. **Zaharia, S.M.**, *Reliability, maintenance and testing of aerospace systems*, LAP Lambert Academic Publishing House, Berlin, 2019, ISBN 978-620-0-00390-4, 193 pagini.
3. **Zaharia, S.M.**, Martinescu, I., *Reliability tests*, Transilvania University of Brasov Publishing House, Brașov, 2012, ISBN 978-606-19-0084-8, 180 pagini.
4. **Zaharia, S.M.**, Martinescu, I., *Reliability and security of the industrial systems*, Printech Publishing House, București, 2018, ISBN 978-606-23-0918-3, 276 pagini.
5. Morariu, C.O., **Zaharia, S.M.**, *Reliability and testing of the bearings*, Printech Publishing House, București, 2018, ISBN 978-606-23-0917-6, 277 pagini.
6. **Zaharia, S.M.**, Morariu C.O., *Elements of the calculation of probabilities applied in the analysis of industrial risks, Theory and applications*, Risoprint Publishing House, Cluj – Napoca, 2017, ISBN 978-973-53-2117-8, 139 pagini.
7. **Zaharia, S.M.**, Morariu, C.O., *Reliability – A Laboratory Guide*, Risoprint Publishing House, Cluj-Napoca, 2017, ISBN 978-973-53-2134-5, 100 pagini.
8. **Zaharia, S.M.**, *Analysis of Reliability and Security Systems – A Laboratory Guide*, Risoprint Publishing House, Cluj – Napoca, 2018, ISBN 978-973-53-2291-5, 180 pagini.
9. **Zaharia, S.M.**, *Construction, design and calculation of aerospace structures – MEF Applications*, Printech Publishing House, București, 2020, ISBN 978-606-23-1076-9, 112 pagini.

ARTICOLE ÎN REVISTE**REVISTE ISI/CLARIVATE ANALYTICS**

1. Pop, M. A., Croitoru, C., Matei, S., **Zaharia, S. M.**, Coșniță, M., Spîrchez, C., (2024). Thermal and Sound Insulation Properties of Organic Biocomposite Mixtures, *Polymers*, vol. 16, nr. 5, ISSN: 2073-4360, **FI 5**, WOS: 001182946900001, <https://www.webofscience.com/wos/woscc/full-record/WOS:001182946900001>
2. Blaj, M. I., **Zaharia, S. M.**, Morariu, C.O., Pop, M. A., Coșniță, M., Oancea, Gh. (2024). Tensile Behavior of Parts Manufactured Using a Material Extrusion Process from a Filament with Short Carbon Fibers and PET Matrix, *Processes*, vol. 12, nr. 2, **FI 3.5**, ISSN: 2227-9717, WOS: 001172605600001 <https://www.webofscience.com/wos/woscc/full-record/WOS:001172605600001>
3. Matei, S., Pop, M. A., **Zaharia, S. M.**, Coșniță, M., Croitoru, C., Spîrchez, C., Cazan, C. (2024). Investigation into the Acoustic Properties of Polylactic Acid Sound-Absorbing Panels Manufactured by 3D Printing Technology: The Influence of Nozzle Diameters and Internal Configurations. *Materials*, vol. 17, nr. 3, pp. 580, ISSN: 1996-1944, **IF 3.4**, WOS:001160043000001, <https://Oa10qgcvd-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:001160043000001>
4. **Zaharia, S. M.**, Lancea, C., Kruk, A., Cempura, G., Gruszczyński, A., Chicos, L. A., Pop, M. A. (2024). Mechanical Properties and Microstructure of Inconel 718 Lattice Structures Produced by Selective Laser Melting Process. *Materials*, vol. 17, nr. 3, pp. 622, ISSN: 1996-1944, **IF 3.4**, WOS:001160123500001, <https://Oa10qgcvd-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:001160123500001>
5. Torpan, R., **Zaharia, S. M.** (2024). Manufacturing Process of Helicopter Tail Rotor Blades from Composite Materials Using 3D-Printed Moulds, *Applied Sciences*, vol. 14, nr. 3, pp. 972, ISSN: 2076-3417, **FI 2.7**, WOS:001160104100001, <https://Oa10qgcvd-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:001160104100001>
6. **Zaharia, S. M.**, Pascariu, I. S., Chicos, L. A., Buican, G. R., Pop, M. A., Lancea, C., Stamate, V. M. (2023). Material Extrusion Additive Manufacturing of the Composite UAV Used for Search-and-Rescue Missions. *Drones*, vol. 7, nr. 10, pp. 602, ISSN: 2504-446X, **FI 4.8**, WOS:001092500000001, <https://Oa10qgcvd-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/fullrecord/WOS:001092500000001>
7. **Zaharia, S. M.**, Pop, M. A., Cosnita, M., Croitoru, C., Matei, S., Spîrchez, C. (2023). Sound Absorption Performance and Mechanical Properties of the 3D-Printed Bio-

- Degradable Panels. *Polymers*, vol. 15, nr. 18, pp. 3695. , ISSN: 2073-4360, **FI 5**, WOS: 001072568300001,
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8. Pop, M. A., Cosnita, M., Croitoru, C., **Zaharia, S. M.**, Matei, S., Spîrchez, C. (2023). 3D-Printed PLA Molds for Natural Composites: Mechanical Properties of Green Wax-Based Composites. *Polymers*, vol. 15, nr. 11, pp. 2487, ISSN: 2073-4360, **FI 5**, WOS: 001005765300001,
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9. **Zaharia, S. M.**, Pop, M. A., Buican, G. R., Chicos, L. A., Stamate, V. M., Pascariu, I. S., & Lancea, C. (2023). Design and Testing of Brushless DC Motor Components of A6 Steel Additively Manufactured by Selective Laser Sintering. *Aerospace*, vol. 10, nr.1, pp. 60, ISSN: 2226-4310, **FI 2.6**, WOS: 000916773600001,
<https://Oa10qgcvd-y-https-www-webofscience-com.z.e-information.ro/wos/woscc/full-record/WOS:000916773600001>
10. Chicos, L. A., Pop, M. A., **Zaharia, S. M.**, Lancea, C., Buican, G. R., Pascariu, I. S., & Stamate, V. M. (2022). Fused Filament Fabrication of Short Glass Fiber-Reinforced Polylactic Acid Composites: Infill Density Influence on Mechanical and Thermal Properties, *Polymers*, vol. 14, nr. 22, pp. 4988, ISSN: 2073-4360, **FI 5**, WOS: 000887644700001,
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11. Lancea, C., Chicos, L. A., **Zaharia, S. M.**, Pop, M. A., Pascariu, I. S., Buican, G. R., Stamate, V. M. (2022). Simulation, Fabrication and Testing of UAV Composite Landing Gear, *Applied Sciences*, vol. 12, nr. 17, pp. 8598, ISSN: 2076-3417, **FI 2.7**, WOS: 000852822200001,
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12. **Zaharia, S. M.**, Pop, M. A., Chicos, L. A., Buican, G. R., Lancea, C., Pascariu, I. S., Stamate, V. M. (2022). Compression and bending properties of short carbon fiber reinforced polymers sandwich structures produced via fused filament fabrication process. *Polymers*, vol. 14, no. 14, pp. 2923, ISSN: 2073-4360, **FI 5**, WOS: 000831977400001,
<https://Oa10qgcvd-y-https-www-webofscience-com.z.e-information.ro/wos/woscc/full-record/WOS:000831977400001>
13. Chicos, L. A., Pop, M. A., **Zaharia, S. M.**, Lancea, C., Buican, G. R., Pascariu, I. S., Stamate, V. M. (2022). Infill density influence on mechanical and thermal properties of short

- carbon fiber-reinforced polyamide composites manufactured by FFF process, *Materials*, vol. 15, nr.10, pp.3706, ISSN: 1996-1944, **FI 3,4**, WOS: 000804898400001, <https://Oa10qgcvd-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000804898400001>
14. Pop, M.A., Croitoru, C., Bedo, T., Geamăn, V., Radomir, I., Crișan, A., Guillot, E., Miloșan, I., **Zaharia, S.M.**, Chicoș, L.A., (2022). The Influence of Solar Sintering on Copper Heat Exchanger Parts with Controlled 3D-Printed Morphology, *Materials*, vol.15, nr. 9, pp. 3324, ISSN: 1996-1944, **FI 3,4**, WOS: 000794752600001, <https://Oa10qgcvd-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000794752600001>
15. Blaj, M. I., **Zaharia, S. M.**, Pop, M. A., Oancea, Gh. (2022). Tensile Properties and Manufacturing Defectives of Short Carbon Fiber Specimens Made with the FDM Process, *Materiale Plastice*, vol. 59, pp. 33-43, ISSN: 0025-5289, **FI 0,8**, WOS: 000884788800001, <https://Oa10qgcvd-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000884788800001>
16. Chicos, L.A., **Zaharia, S.M.**, Cempura, G., Kruk, A., Lech, S., Kryshthal, O., Ziętara, M., Michta, G., Rodríguez, J., Cosnita, M. and Pop, M.A., (2022). Effect of concentrated solar energy on microstructure evolution of selective laser melted Ti-6Al-4V alloy. *The International Journal of Advanced Manufacturing Technology*, pp.1-25, ISSN: 0268-3768, **IF 3.4**, WOS:000706028400002, <https://Oa10qgdck-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000706028400002>
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21. **Zaharia, S.M.**, Pop, M.A., Udriou, R., (2020). Reliability and Lifetime Assessment of Glider Wing's Composite Spar through Accelerated Fatigue Life Testing, *Materials*, vol. 13, 2310, ISSN: 1996-1944, **FI 3,623**, WOS:000539277000102,
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23. Pascariu, I.S., **Zaharia, S.M.**, (2020). Design and Testing of an Unmanned Aerial Vehicle Manufactured by Fused Deposition Modeling, *Journal of Aerospace Engineering*, vol. 33, nr.4, 06020002, ISSN: 0893-1321, **FI 1,904**, WOS:000536130300006
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26. Pop, M.A., Croitoru, C., Bedo, T., Geaman, V., Radomir, I., Cosnita, M., **Zaharia, S.M.**, Chicos, L.A., Milosan, I., (2019). Structural changes during 3D printing of bioderived and synthetic thermoplastic materials, *Journal of Applied Polymer Science*, vol. 136, nr. 17, ISSN: 0021-8995, **FI 2,52**, WOS:000456861100001
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29. Chicoş, L.A., **Zaharia, S.M.**, Lancea, C., Pop, M.A., Canadas, I., Rodriguez, J., Galindo, J., (2018). Concentrated solar energy used for heat treatment of Ti6Al4V alloy manufactured by selective laser melting, Solar Energy, vol.173, pag. 76-88, ISSN: 0038-092X, FI **4,674**, WOS:000452940800007,
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30. **Zaharia, S.M.**, Lancea, C., Chicoş, L.A., Pop, M.A., Caputo, G., Serra, E., (2017) Mechanical properties and corrosion behaviour of 316L stainless steel honeycomb cellular cores manufactured by selective laser melting. Transactions of FAMENA, vol. 41, nr. 4, pag. 11-24, ISSN: 1333-1124, FI **0,797**, WOS:000431808800002
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31. **Zaharia, S.M.**, Pop, M.A., Semenescu, A., Florea, B., Chivu, O.R., (2017). Mechanical Properties and Fatigue Performances on Sandwich Structures with CFRP Skin and Nomex Honeycomb Core, Materiale Plastice, vol. 54, nr. 1, pag. 67-72, ISSN: 0025-5289, FI **1,248**, WOS:000400629900016
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32. **Zaharia, S.M.**, Morariu, C.O., Nedelcu, A., Pop, M.A., (2017). Experimental Study of Static and Fatigue Behavior of CFRP-Balsa Sandwiches under Three-point Flexural Loading, BioResources, vol. 12, nr. 2, pag. 2673 - 2689, ISSN: 1930-2126, FI **1,202**, WOS:000402883700032
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Conf. dr. ing. ZAHARIA Sebastian-Marian

