

Universitatea Transilvania din Braşov**Facultatea: Inginerie tehnologică şi management industrial****Departamentul: Ingineria fabricaţiei**

LISTA DE LUCRĂRI

LUCRĂRI RELEVANTE

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., 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 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=E4WSU2DcolteJD3P5cs&page=1&doc=5
3. 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, http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=E4WSU2DcolteJD3P5cs&page=1&doc=3
4. 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
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6. 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

http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=E4WSU2DcolteJD3P5cs&page=1&doc=9

7. 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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9. 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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10. Morariu C.O., Zaharia S.M., (2013). A New Method for Determining the Reliability Testing Period Using Weibull Distribution, Acta Polytechnica Hungarica, vol. 10, nr. 7, pag. 171-186, ISSN 1785-8860, FI 0,471, WOS:000329890400012,

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TEZA DE DOCTORAT

Cercetări teoretice şi experimentale privind încercările accelerate de fiabilitate, Universitatea Transilvania din Braşov, 2010.

Coordonator doctorat: Prof. dr. ing. Ionel MARTINESCU

Domeniu: Inginerie industrială

TEZA DE ABILITARE

Cercetări privind fiabilitatea, testarea accelerată şi fabricarea aditivă a produselor industriale, Universitatea Transilvania din Braşov, 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, Braşov, 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, Bucureşti, 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, Bucureşti, 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.
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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 aersoapecce structures – MEF Applications*, Printech Publishing House, Bucureşti, 2020, ISBN 978-606-23-1076-9, 112 pagini.

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

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2. Lancea, C., Campbell, I., Chicoş, L.A., Zaharia, S.M., (2020). Compressive Behaviour of Lattice Structures Manufactured by Polyjet Technologies, vol. 12, 1740, ISSN: 2073-4360, FI 4,329, WOS: 000602474600001
<https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000602474600001>
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 4. 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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 6. Pop, M.A., Croitoru, C., Bedo, T., Geaman, V., Radomir, Zaharia, S.M., Chicos, L.A., (2020). Influence of Internal Innovative Architecture on the Mechanical Properties of 3D Polymer Printed Parts, Polymers, vol. 12, nr. 5, 1129, ISSN: 2073-4360, FI 4,329, WOS:000541431100134
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 7. 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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13. 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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17. Zaharia, S.M., Pop, M.A., Chicoş, L.A., Lancea, C; Semenescu, A., Florea, B., Chivu, O.R., (2017). An Investigation on the Reliability and Degradation of Polycrystalline Silicon Solar Cells Under Accelerated Corrosion Test. Materiale Plastice, vol. 54, nr. 3, pag. 466-472, ISSN: 0025-5289, FI 1,248, WOS:000426412300012

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2. Zaharia, S.M., Ștefăneanu, R.I., (2016). CFD simulation and FEA analysis of a ballistic missile, *Journal of Industrial Design and Engineering Graphics*, vol. 11, nr. 2, pag. 41-45, International data base: EBSCO, ProQuest.
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<https://search.proquest.com/docview/1905663679?pq-origsite=gscholar&fromopenview=true>
4. Zaharia, S.M., (2016). Reliability Testing and Failure Analysis for Spar Structure of Helicopter Rotor Blades, *Review of the Air Force Academy Vol XIV*, nr. 2, pag. 39 – 46, DOI: 10.19062/1842-9238.2016.14.2.5, International data base: ProQuest.
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5. Zaharia, S.M., (2016). The analysis and development of a maintenance programme for the fuel system, *Research and Science Today Journal*, nr. 2, pag. 105-113, International data base: EBSCO, ProQuest.

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6. Zaharia, S.M., (2015). The modal analysis of a carbon fiber helicopter blade, Journal of Industrial Design and Engineering Graphics, vol. 10, nr. 2, pag. 23-26, International data base: EBSCO, ProQuest.
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7. Zaharia, S.M., (2015). Simulation and aerodynamic analysis of the flow around the sailplane using CFD techniques, Scientific Bulletin of the "Petru Maior" University of Tîrgu Mureş, vol. 12, nr. 2, pag. 26-30, International data base: EBSCO, ProQuest.
- <https://web.a.ebscohost.com/abstract?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=18419267&AN=111948019&h=9iHydJxDeIGElmbWFH8vkTF5JGtylYx275smH8kBxycyM0GgVz5dvLekkrBFU3xinFvHINjafGFiss9Z7S%2bw%3d%3d&crl=c&resultNs=AdminWebAuth&resultLocal=ErrCrlNotAuth&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d18419267%26AN%3d111948019>
8. Zaharia, S.M., Morariu, C.O., (2015). Simulation and Analysis of the Milling Machines Reliability Using the Monte Carlo Method, Research and Science Today nr. 2, pag. 105-113, International data base: EBSCO, ProQuest.
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9. Morariu, C.O., Zaharia, S.M., (2015). Preliminary reliability of bearings, Mechanical Testing and Diagnosis Scientific Journal, vol. 5, nr.3, pag. 5-12, International data base: EBSCO, ProQuest.
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13. Zaharia, S.M., Lancea, C., Chicos, L.A., Caputo, G., (2014). Behaviour and Mean Life Prediction of Solar Mirrors from Parabolic Trough Collectors Under Accelerated Degradation/Reliability Testing, Applied Mechanics and Materials, Applied Mechanics and Materials, vol. 656, pag. 442-449, International data base: EBSCO, ProQuest, Scopus.
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Şef lucrări dr. ing. ZAHARIA Sebastian-Marian

