

Autorul tezei de abilitare: Șef lucr. dr. ing. ZAHARIA Sebastian-Marian

Titlul tezei de abilitare: Cercetări privind fiabilitatea, testarea accelerată și fabricarea aditivă a produselor industriale

Domeniul: Inginerie Industrială

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 3,426**, 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.**, Chicoș, 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 2,117**, 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 3,057**, 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, *Eksplotacja i Niezawodność – Maintenance and Reliability*, vol. 21, no. 4, pp. 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. Chicoș, 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, pp. 76-88, ISSN: 0038-092X, **FI 4,674**, WOS:000452940800007
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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, no. 2, pp. 2673 – 2689, ISSN: 1930-2126, **FI 1,202**, WOS:000402883700032
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http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=E4WSU2DcolteJD3P5cs&page=2&doc=15
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, no. 7, pp. 171-186, ISSN 1785-8860, **FI 0,471**, WOS:000329890400012,
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TEZA DE DOCTORAT

Theoretical and experimental research regarding accelerated reliability tests, Transilvania University of Brașov, 2010.

PhD Supervisor: Prof. dr. ing. Ionel MARTINESCU

Domain: Industrial Engineering

BREVETE

1. **Zaharia, S.M.**, Stamate, V.M., (2020), Test bench of the fatigue strength of the blades and test method, No. RO 129022 B1.

CĂRȚI / CAPITOLE DE CĂRȚI

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3. **Zaharia, S.M.**, Martinescu, I., *Reliability tests*, Transilvania University of Brasov Publishing House, Braşov, 2012, ISBN 978-606-19-0084-8, 180 pages.
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 pages.
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 pages.
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 pages.
7. **Zaharia, S.M.**, Morariu, C.O., *Reliability – A Laboratory Guide*, Risoprint Publishing House, Cluj-Napoca, 2017, ISBN 978-973-53-2134-5, 100 pages.
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ARTICOLE ÎN REVISTE

REVISTE ISI/CLARIVATE ANALYTICS

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12. **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, no. 4, pp. 11–24, ISSN: 1333-1124, **FI 0,797**, WOS:000431808800002

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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, no. 2, pp. 41-45, International data base: EBSCO, ProQuest.
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11. Șoimaru, C., Buzea, D., **Zaharia, S.M.**, (2015). Conducting data analysis for electrohydraulic valves, Bulletin of the Transilvania University of Brașov, Series I: Engineering Sciences, vol. 5, no. 2, pp. 17-24, International data base: EBSCO, ProQuest.

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12. **Zaharia, S.M.**, (2014). Validation of Accelerated Reliability Test Techniques of Industrial Components Using Finite Element Analysis, Applied Mechanics and Materials, vol. 555, pp. 549-554, International data base: EBSCO, ProQuest, Scopus.

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