

## LISTA publicațiilor științifice

### Lucrări reprezentative

1. **Chicoș, L.A.**, Zaharia, S.M., Cempura, G., Kruk, A., Lech, S., Kryshnal, O., Zițtara, M., Michta, G., Rodríguez, J., Cosnita, M., Pop, M. A., Lancea, C., (2021), Effect of concentrated solar energy on microstructure evolution of selective laser melted Ti-6Al-4V alloy, International Journal of Advanced Manufacturing Technology 118, 3183–3207, ISSN: 1433-3015, FI: 3.226 (Q2, zona galbenă), WOS: 000706028400002  
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2. **Chicoș, L.A.**, Zaharia, S. M., Lancea, C., Pop, M.A., Cañadas, I., Rodríguez, J., Galindo, J., (2018), Concentrated solar energy used for heat treatment of Ti6Al4V alloy manufactured by selective laser melting, Solar Energy 173, 76-88, ISSN: 0038-092X, FI 4.674 (Q1, zona roșie), WOS:000452940800007  
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3. **Chicoș, 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, 15, 3706, EISSN 1996-1944, FI 3.623 (Q2, zona galbenă), WOS:000804898400001  
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5. **Chicoș, L.A.**, Oancea, G., Lancea, C., Bancila D., Software System of Integrated and Simultaneous Engineering, Proceedings of the 10th WSEAS International Conference on Applied Computer Science (ACS'10), Iwate Prefectural University, Published by World Scientific and Engineering Academy and Society (WSEAS) Press, pp. 238-241, (ISSN: 1792-4863, ISBN: 978-960-474-231-8 –ISI Proceedings ), Iwate, Japonia, 2010  
<https://www.webofscience.com/wos/woscc/full-record/WOS:000290364500046>

6. **Chicoş, L.A.**, Oancea, G., Lancea, C., Vasiloni, A.M., Simultaneous Approach of CAD and CAM Technologies using Constructive-Technological Entities, Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium, 25-28th November 2009, Volume 20, No.1, pp.377-378, ISBN 978-3-901509-70-4, ISSN 1726-9679, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2009  
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7. Antonoaie, V., Irimeş, A., **Chicoş, L.A.**, ERP Processes Automation in Corporate Environments, MATEC Web of Conferences Journal, 94, 1-11, 2017  
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8. 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 10(5), 645, ISSN: 2075-4701, FI 2.351, (Q1, zona roşie), WOS:000540220000093  
<https://www.webofscience.com/wos/woscc/full-record/WOS:000540220000093>
9. **Chicoş, L.A.**, Campbell, I., Zaharia, S.M., Lancea, C., Pop, M.A., Semenescu, A., Florea, B., Chivu, O.R., (2019), Experimental and Finite Element Analysis of the Open-Cells Porous Materials Subjected to Compression Mechanical Loading, Materiale Plastice, 56 (2), 421, ISSN 0025-5289, FI 1.517, WOS:000476641 000026  
<https://www.webofscience.com/wos/woscc/full-record/WOS:000476641000026>
10. Zaharia, S.M., Lancea, C., Kruk, A., Cempura, G., Gruszczynski, A., **Chicoş, L.A.**, Pop, M.A. (2024), Mechanical Properties and Microstructure of Inconel 718 Lattice Structures Produced by Selective Laser Melting Process, Materials, 17(3), 62, EISSN 1996-1944, FI 3.4 (Q2, zona galbenă), WOS:001160123500001  
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## A. Teza de doctorat

**Chicoş, L.A.**, *Utilizarea conceptului de inginerie simultană în dezvoltarea de produse*, Teza de doctorat, Universitatea Transilvania din Braşov, Braşov, 2007.

## B. Cărţi/capitole de specialitate

1. Chicoş, L.A., Inginerie Simultană. Concept şi metode. Editura MatrixROM, ISBN 978-606-25-0028-3, 2013, Bucureşti
2. Ivan, M.C., Chicoş, L.A., Găvruş, C., Conceptul de entitate constructiv-tehnologică în dezvoltarea de produse, Editura Universităţii Transilvania din Braşov, ISBN 978-973-635-829-6, 2007, Braşov
3. Oancea, Gh., Folea, M., Chicoş, L.A., Pârv, L., Morariu, C. Lancea, C., Filip, A., Estimarea costurilor de prelucrare a produselor industriale, Editura Universităţii Transilvania din Braşov, ISBN 978-973-598-243-0, 2008, Braşov
4. Lancea, C., Chicoş, L.A., Proiectare asistată de calculator utilizând PRO/E. Teorie si aplicaţii, Editura MatrixRom, ISBN 978-606-25-0510-3, 2020, Bucureşti
5. Chicoş, L.A., Szabo, V.G., Aplicaţii în SAP® IDES ERP, Editura MatrixRom, ISBN 978-606-25-0576-9, 2020, Bucureşti

6. Chicoș, L.A., Lancea, C., Fabricație asistată de calculator. Aplicații în Pro/NC, Editura MatrixRom, ISBN 978-606-25-0510-3, 2019, București
7. Chicoș, L.A., Vasiloni, A.M., Sisteme CAM. Teorie și aplicații în PowerMILL, Editura Universității Transilvania din Brașov, ISBN 978-606-19-0699-4, 2015, Brașov

### C. Cărți ca editor

1. Eftimie, N., Chicoș, L.A., Extended Abstracts of The 4th International Conference on Computing and Solutions in Manufacturing Engineering 2016 - CoSME'16, Vol. I., Editura Universității Transilvania din Brașov, ISSN 2537 – 3765, ISSN-L 2537 – 3765, 2016, Brașov
2. Ivan, N.V., Lancea, C., Filip, A., Chicoș, L.A., Mihali, M., Șimon, A.E., Extended Abstracts of The 1st International Conference on Computing and Solutions in Manufacturing Engineering 2004 - CoSME'04, Editura Universității Transilvania din Brașov, ISBN 973-635-372-9, 2004, Brașov

### D. Articole indexate în reviste și în volumele unor manifestări științifice WoS Clarivate (ISI Thomson Reuters)

#### D1. Articole indexate în reviste WoS Clarivate

1. **Chicoș, L.A.**, Zaharia, S.M., Cempura, G., Kruk, A., Lech, S., Kryshtal, O., Zițara, M., Michta, G., Rodríguez, J., Cosnita, M., Pop, M. A., Lancea, C., (2021), Effect of concentrated solar energy on microstructure evolution of selective laser melted Ti-6Al-4V alloy, International Journal of Advanced Manufacturing Technology 118, 3183–3207, ISSN: 1433-3015, FI: 3.226 (Q2, zona galbenă), WOS: 000706028400002  
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2. Buican, G.R., Zaharia, S.M., Pop, M.A., **Chicoș, L.A.**, Lancea, C., Stamate, V.M., Pascariu, I.S., (2021), Fabrication and characterization of fiber-reinforced composite sandwich structures obtained by fused filament fabrication process, Coatings 11, 601, ISSN: 2079-6412, FI 2.881 (Q2, zona galbenă) WOS: 000653745700001  
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3. Lancea, C., Campbell, I., **Chicoș, L.A.**, Zaharia, S.M., (2020), Compressive Behaviour of Lattice Structures Manufactured by Polyjet Technologies, Polymers 12, 1740, ISSN: 2073-4360, FI: 4.329 (Q1, zona roșie), WOS: 000602474600001  
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5. Pop, M.A., Croitoru, C., Bedo, T., Geamăn, V., Radomir, I., Zaharia, S.M., **Chicoș, L.A.**, (2020), Influence of Internal Innovative Architecture on the Mechanical Properties of 3D Polymer Printed Parts, Polymers 12(5), 1129, ISSN: 2073-4360, FI 4.329 (Q1, zona roșie), WOS: 000541431100134  
<https://www.webofscience.com/wos/woscc/full-record/WOS:000541431100134>

6. Pop, M.A., Croitoru, C., Bedó, T., Geamăn, V., Radomir, I., Cosnită, M., Zaharia, S.M., **Chicoș, L.A.**, Milosan, I., (2019), Structural changes during 3D printing of bioderived and synthetic thermoplastic materials, Journal of Applied Polymer Science 136 (17), 47382, ISSN 0021-8995, FI 2.52 (Q2, zona galbenă), WOS: 000456861100001  
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8. Lancea, C., **Chicoș, L.A.**, Zaharia, S.M., Pop, M.A., Semenescu, A., Florea, B., Chivu, O.R., (2018). Accelerated Corrosion Analysis of AlSi10Mg Alloy Manufactured by Selective Laser Melting (SLM), Revista de Chimie 69, nr. 4, 975-981, ISSN: 0034-7752, FI 1.605, WOS:000433223000046  
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9. **Chicoș, L.A.**, Zaharia, S. M., Lancea, C., Pop, M.A., Cañadas, I., Rodríguez, J., Galindo, J., (2018), Concentrated solar energy used for heat treatment of Ti6Al4V alloy manufactured by selective laser melting, Solar Energy 173, 76-88, ISSN: 0038-092X, FI 4.674 (Q1, zona roșie), WOS:000452940800007  
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11. Zaharia, S.M., Pop, M.A., **Chicoș, L.A.**, Lancea, C., Semenescu, A., Florea, S., Chivu, O.R., (2017), An Investigation on the Reliability and Degradation of Polycrystalline Silicon Solar Cells Under Accelerated Corrosion Test, Materiale Plastice 54, nr. 3, 466-472, ISSN 0025-5289, FI 1.248, WOS:000426412300012  
<https://www.webofscience.com/wos/woscc/full-record/WOS:000426412300012>
12. 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, 15, 3324, EISSN 1996-1944, FI 3.623 (Q2, zona galbenă), WOS:000794752600001  
<https://www.webofscience.com/wos/woscc/full-record/WOS:000794752600001>
13. **Chicoș, 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, 15, 3706, EISSN 1996-1944, FI 3.623 (Q2, zona galbenă), WOS:000804898400001  
<https://www.webofscience.com/wos/woscc/full-record/WOS:000804898400001>
14. Zaharia, S.M., Pop, M.A., **Chicoș, 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



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15. Lancea, C., **Chicoș, 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 Science, 12(17), 8598, ISSN: 2076-3417, FI 2.838 (Q2, zona galbenă), WOS:000852822200001  
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16. Zaharia, S.M., Pop, M.A., Buican, G.R., **Chicoș, 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, 10(1), 60, ISSN: 2226-4310, FI 2.66, (Q1, zona roșie), WOS:000916773600001  
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17. **Chicoș, 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, 14(22), 4988, ISSN: 2073-4360, FI 4.967 (Q1, zona roșie), WOS:000887644700001  
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## D2. Articole indexate în volume de conferințe WoS Clarivate

1. Lancea, C., **Chicoș, L.A.**, Zaharia, S.M., Pop, M.A., (2016). Microstructure and microhardness analyses of titanium alloy Ti-6Al-4V parts manufactured by Selective Laser Melting. MATEC Web of Conferences Journal, ISSN: 2261 -236X, WOS: 000393034000039  
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3. Lancea, C., Oancea, G., **Chicoș, L.A.**, Stamate, V., Software Package for Improving the Milling Process of 3D Parts, Proceedings of the 10th WSEAS International Conference on Applied Computer Science (ACS'10), Iwate Prefectural University, Published by World Scientific and Engineering Academy and

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4. Lancea, C., Ivan N.V., **Chicoş, L.A.**, Oancea, G., Optimisation of CNC milling files since CAD phases, Annals of DAAAM for 2008 & Proceedings of the 19th International DAAAM Symposium Intelligent Manufacturing & Automation: Focus on Next Generation of Intelligent Systems and Solutions", 22-25th October 2008, Trnava, Slovakia, pp. 741-742, ISSN 1726-9679 – ISI Proceedings, 2008  
<https://www.webofscience.com/wos/woscc/full-record/WOS:000262860100370>
5. Oancea, G., **Chicoş, L.A.**, Lancea, C., Cost Estimating Method of Industrial Product Implemented in WinCOST Software System, 3rd WSEAS International Conference on Engineering Mechanics, Structures, Engineering Geology (EMESEG '10), International Conference on Geography and Geology 2010 (WORLDGEO '10), Published by WSEAS Press, pp. 148-151,ISSN: 1792-4294, ISBN: 978-960-474-203-5, Corfu Island, Greece July 22-24, 2010  
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6. Lancea, C., Oancea, G., **Chicoş, L.A.**, Stamate, V., Simultaneous Engineering within CNC Turning of Adapting Pipe Parts (2009). Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium, 25-28th November 2009, Volume 20, No.1, pp. 229-230, ISBN 978-3-901509-70-4, ISSN 1726-9679, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2009  
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7. **Chicoş, L.A.**, Oancea, G., Lancea, C., Vasiloni, A.M., Simultaneous Approach of CAD and CAM Technologies using Constructive-Technological Entities, Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium, 25-28th November 2009, Volume 20, No.1, pp.377-378, ISBN 978-3-901509-70-4, ISSN 1726-9679, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2009  
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8. Oancea, G., **Chicoş, L.A.**, Ivan, N.V., Lancea, C., Automatic Obtaining of Aligned Sectional Views in AutoCAD Layouts, Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium, 25-28th November 2009, Volume 20, No.1, pp.167-168, ISBN 978-3-901509-70-4, ISSN 1726-9679, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2009  
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9. Oancea, G., **Chicoş, L.A.**, Lancea, C., Intelligent AutoCAD Objects Used for CAD/CAPP/CAM Systems, Proceedings of the 1st WSEAS International Conference on Manufacturing Engineering, Quality and Production Systems, Brasov, Romania, Published by World Scientific and Engineering Academy and Society (WSEAS) Press, Vol.2, pp. 401-405, (ISSN 1790-2769 –ISI Proceedings), Brasov, Romania, 2009  
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11. Stamate, V., **Chicoș, L.A.**, Oancea, G., Lancea, C., (2008). Barothermopolymerization Apparatus with Electromagnetic Induction (2008). 1285-1286, Annals of DAAAM for 2008 & Proceedings of the 19th International DAAAM Symposium, ISBN 978-3-901509-68-1, ISSN 1726-9679, pp 643, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2008  
<https://www.webofscience.com/wos/woscc/full-record/WOS:000262860100642>
12. Antonoaie, V., Irimeș, A., **Chicoș, L.A.**, ERP Processes Automation in Corporate Environments, MATEC Web of Conferences Journal, 94, 1-11, 2017  
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## E. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale

1. Zaharia, S.M., Lancea, C., **Chicoș, L.A.**, Caputo, G., 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, pp. 442-449, 2014  
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2. Stamate, V., **Chicoș, L.A.**, Caputo, G., Lancea, C., Using Galvanofforming Technology for Obtaining Coating Dental Crowns, Academic Journal of Manufacturing Engineering (AJME), Vol.10, Issue 3/2012, pp. 109-112, ISSN 1583-7904, Timisoara, România, 2012  
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