

Mihai Alin POP



 Eroilor nr. 29, 500036, Braşov, România

 mihai.pop@unitbv.ro

Sex Male | Nationality Romanian

WORK EXPERIENCE

2020 - present

Scientific Researcher II

Department of Materials Science, Faculty of Materials Science and Engineering, Transilvania University of Braşov

- ✓ Research activities in the field of Materials Engineering.

25.02.2003 – 30.09.2004

Sector Education and Research

Designing Engineer

S.C. Metaloplast S.A Braşov, 38, Ecaterina Teodoroiu, Braşov

- ✓ Designing the new products, optimizing the existing products, design packaging for products.

EDUCATION AND TRAINING

2010 – 2013

Postdoctoral researcher

Department of Materials Science, Faculty of Materials Science and Engineering, Transilvania University of Braşov

- ✓ Research activities in the field of composite materials, advanced materials, innovation products.

2004 – 2009

PhD student

Department of Materials Science, Faculty of Materials Science and Engineering, Transilvania University of Braşov

- ✓ Research activities in the field of composite materials, advanced materials, innovation products.

2003 – 2004

Master degree

Department of Materials Science, Faculty of Materials Science and Engineering, Transilvania University of Braşov

- ✓ Main topic: Optimisation of technological equipment's.

1996 – 2001

Technological Equipment

Department of Materials Science, Faculty of Materials Science and Engineering, Transilvania University of Braşov

- ✓ Main topic: Technological equipment.

PERSONAL SKILLS

Mother tongue(s)

Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
Independent user					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- ✓ Good communication abilities, individual and team work.

Job-related skills

- ✓ Good working abilities with materials characterisation equipment's (Universal Testing Machine, Spectrometers, Metallographic Microscopy, Grinding / polishing machines). Advanced skills in environmental protection, innovative products, unconventional technologies.

iComputer skills

- ✓ Advanced skills in using software's – MS Office, Solidworks, AutoCAD, Origin, Build Setup (for SLS), MatLab.
- ✓ Advanced digital skills in Cybersecurity and Artificial Intelligence.

Driving licence

- ✓ B (since 2002)

ADDITIONAL INFORMATION

Publications

- ✓ 64 ISI scientific papers in scientific journals and 46 of them in the scientific journal with IF > 1.0
- ✓ 9 books at national level, 3 books at international level
- ✓ 1 national patent:
- ✓ 827 citations in ISI Web of Science

Presentations

- ✓ 9 presentations at conferences

Projects

- ✓ Director of 4 research projects (2 national and 2 international) and member of the research team in 16 national or international projects.
 - SFERA III: Solar sintering of parts with controlled cellular morphology architecture made in moulds obtained by 3D printing, Horizon 2020 Research and Innovation Programme, contract no: 823802, 2020
 - SFERA III: Improving the properties of A6 steel 3D printed and nickel-plated parts by solar treatment, Horizon 2020 Research and Innovation Programme, contract no: 2201310034, 2022
 - Young Researchers Grant: Fabricarea asistata 3D a unor structuri eco-compozite hibride (3D fabrication of hybrid eco-composites), Transilvania University of Brasov, contract no: 8035/14.07.2017, 2017-2020
 - Eco-friendly composites made by 3D printing techniques used for soundproofing panels , CNCS – UEFISCDI, contract no: PN-III-P1-1.1-TE-2021-0294, TE 75/2022, 2022-2024
- ✓ Hirsch indices: 15 in the ISI database, 17 in Scopus, and 20 in Google Scholar.
 - WoS: N-2227-2017
 - Scopus: 24544774800
 - GScholar: ZiaMtfQAAAAJ
- ✓ Habilitation in the field of Materials Engineering (2025)

Lista de lucrări

LUCRĂRI RELEVANTE

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*, 16(5), 672. WOS:001182946900001 (FI=4.7) Q1, [link](#)
2. 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*, 17(3), 580. WOS:001160043000001 (Autor corespondent) (FI=3.1) Q2, [link](#)
3. Blaj, M. I., Zaharia, S. M., Morariu, C. O., **Pop, M. A.**, Cosnita, M., & Oancea, G. (2024). Tensile Behavior of Parts Manufactured Using a Material Extrusion Process from a Filament with Short Carbon Fibers and PET Matrix. *Processes*, 12(2). WOS:001172605600001 (FI=2.8) Q2, [link](#)
4. 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*, 7(10), 602. WOS:001092500000001 (FI=4.4) Q1, [link](#)
5. 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*, 15(18), 3695. WOS:001072568300001 (Autor corespondent) (FI=4.7) Q1, [link](#)
6. **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*, 15(11), 2487. WOS:001005765300001 (FI=4.7) Q1, [link](#)
7. 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*, 10(1), 60. WOS:000916773600001 (FI=2.1) Q2, [link](#)
8. **Pop, M. A.**, Croitoru, C., Bedo, T., Geamăn, V., Radomir, I., Crișan, A., ... & Chicoș, L. A. (2022). The Influence of Solar Sintering on Copper Heat Exchanger Parts with Controlled 3D-Printed Morphology. *Materials*, 15(9), 3324. (FI=3.748) Q2, [link](#)
9. **Pop, M. A.**, Croitoru, C., Bedó, T., Geamăn, V., Radomir, I., Cosniță, M., ... & Milos, an, I. (2019). Structural changes during 3D printing of bioderived and synthetic thermoplastic materials. *Journal of Applied Polymer Science*, 136(17), 47382. WOS:000456861100001 (FI=2.7) Q2, [link](#)
10. Catana, D. and **Pop, M.A.**, 2021. Studies regarding simulation process to static loading of the structures obtained from polylactic acid, 3D printed. *Journal of Applied Polymer Science*, 138(6), p.50036. WOS:000575801800001 (FI=2.7) Q2, [link](#)

ARTICOLE ÎN REVISTE

1. Coterlici, R. F., Geaman, V., **Pop, M. A.**, Bedo, T., Radomir, I., Chivu, O. R., ... & Semenescu, A. (2016). Thermal Analysis Studies Regarding the Eco-Composites Based on Jute by Applying Salinity Treatment. *REVISTA DE CHIMIE*, 67(10), 2049-2052. FI = 1.412, WOS:000388359900033, [link](#)
2. Geaman, V., **Pop, M. A.**, Radomir, I., Bedo, T., Florea, B., Semenescu, A., ... & Gligor, M. A. (2016). Lubrication of High Speed Ball-Bearings Using Polymer Additives. *Rev. Chim.(Bucharest)*, 67(11), 2207. FI = 1.412, WOS:000388361900016, [link](#)
3. 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*, 12(2), 2673-2689. FI = 1.321, WOS:000402883700032, [link](#)
4. **Pop, M. A.**, Geaman, V., Radomir, I., Bedo, T., Milos, an, I., Semenescu, A., ... & Chivu, O. R. (2017). Effect of Different Solutions on the Handmade Composite Materials. *Rev. Chim.(Bucharest)*, 68, 467. FI = 1.412, WOS:000400731900008, [link](#) (autor principal-corespondent)

5. 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*, 54(1), 67. FI = 1.248, WOS:000400629900016, [link \(autor principal-corespondent\)](#)
6. **Pop, M. A.**, Geaman, V., Radomir, I., & Bedo, T. (2017). Capacity of energy absorption by flick through shock in cooper foams. *Journal of Porous Media*, 20(5). FI = 1.144, WOS:000405350900003, [link](#)
7. GEAMĂN, V., FRUNZĂ, D., Radomir, I., & **Pop, M. A.** (2015). Numerical simulation of cyclic extrusion process for aluminum alloy 6060. FI = 0, WOS:000417044700016, [link](#)
8. Zaharia, S. M., Lancea, C., Chicos, 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*, 41(4), 11-24. FI = 0.797, WOS:000431808800002, [link](#)
9. Zaharia, S. M., **Pop, M. A.**, Chicos, 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*, 54(3), 466. AutorPrincipal:true FI = 1.248, WOS:000426412300012, [link \(autor principal-corespondent\)](#)
10. **Pop, M. A.**, Geaman, V., Radomir, I., Bedo, T., Milosan, I., Zaharia, S. M., ... & Chivu, O. R. (2017). The Degradation Effects to Hand Made Composite Materials by Using Acids. *MATERIALE PLASTICE*, 54(3), 433. FI = 1.248, WOS:000426412300006, [link](#)
11. Zaharia, S. M., Morariu, C. O., & **Pop, M. A.** (2018). A comparative study about static and fatigue behaviour on sandwich structures with different types of glass fiber reinforced polymer skins and nomex honeycomb core. *REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS*, 48(1), 91-100. FI = 0.661, WOS:000429213900014, [link](#)
12. Lancea, C., Chicos, L. A., Zaharia, S. M., **Pop, M. A.**, Semenescu, A., Florea, B., & Chivu, O. R. (2018). Accelerated corrosion analysis of AISi10Mg alloy manufactured by selective laser melting (SLM). *Rev. Chim.-Buchar.*, 69, 975-981. FI = 1.412 , WOS:000433223000046, [link \(autor principal-corespondent\)](#)
13. Croitoru, C., Spirchez, C., Lunguleasa, A., Cristea, D., Roata, I. C., **Pop, M. A.**, ... & Pascu, A. (2018). Surface properties of thermally treated composite wood panels. *Applied Surface Science*, 438, 114-126. FI = 4.439, WOS:000425731200013, [link](#)
14. Milosan, I., Flamant, GILLES, Voiculescu, IONELIA, Geanta, VICTOR, Munteanu, DANIEL, Bedo, T., **Pop, M.A.**... & Giacomelli, I. (2018). Comparative Study of Heat Treatment Effects Performed with Solar Energy and Electric Furnace on EN 1.4848 Stainless Steel Alloyed with Co, W, Cu and Mo. *REVISTA DE CHIMIE (Bucharest)*, 69(5), 1050-1054. FI = 1.412, WOS:000434954100004, [link](#)
15. Croitoru, C., Spirchez, C., Cristea, D., Lunguleasa, A., **Pop, M. A.**, Bedo, T., ... & Luca, M. A. (2018). Calcium carbonate and wood reinforced hybrid PVC composites. *Journal of Applied Polymer Science*, 135(22), 46317. FI = 1.901, WOS:000426508700017, [link](#)
16. Chicos, 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. FI = 4.374, WOS:000452940800007, [link](#)
17. Tiron, E. L., Crisan, A., Bedő, T., Stoicanescu, M., **Pop, M. A.**, & Cristea, D. (2018). The Influence of Galvanizing Parameters on the Structural Development of Zn-Al-Based Coatings. *Journal of Materials Engineering and Performance*, 27(9), 4548-4560. FI = 1.34, WOS:000443966400018, [link](#)
18. **Pop, M. A.**, Croitoru, C., Bedő, T., Geamăn, V., Radomir, I., Cosnită, M., ... & Milosan, I. (2019). Structural changes during 3D printing of bioderived and synthetic thermoplastic materials. *Journal of Applied Polymer Science*, 136(17), 47382. FI = 1.901, WOS:000456861100001, [link](#)
19. Milosan, I., Varga, B., Bedo, T., **Pop, M. A.**, Balat-Pichelin, M., Luca-Motoc, D., & Stoicanescu, M. (2019). Thermal processing and thermal analysis of AISi12–SiC hybrid composites sintered. *Journal of Thermal Analysis and Calorimetry*, 138(4), 2937-2944. FI = 2.471, WOS:000499703500052, [link](#)
20. Yuan, Z., Peng, T., An, D., Cristea, D., & **Pop, M. A.** (2019). Rolling bearing fault diagnosis based on adaptive smooth ITD and MF-DFA method. *Journal of Low Frequency Noise, Vibration and Active Control*, 1461348419867012. FI = 0, WOS:000480051500001, [link](#)

21. Chicos, L. A., Campbell, I., Zaharia, S. M., **Pop, M. A.**, Lancea, C., Semenescu, A., ... & 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. FI = 1.393, WOS:000476641000026, [link](#) (autor principal-corespondent)
22. Bedo, T., Varga, B., Cristea, D., Nitoi, A., Gatto, A., Bassoli, E., ... & **Pop, M. A.** (2019). Metastable Al–Si–Ni Alloys for Additive Manufacturing: Structural Stability and Energy Release during Heating. *Metals*, 9(5), 483. FI = 2.259, WOS:000478818700002, [link](#)
23. Gabor, C., Cristea, D., Velicu, I. L., Bedo, T., Gatto, A., Bassoli, E., **Pop M.A.** ... & Codescu, M. M. (2019). Ti–Zr–Si–Nb Nanocrystalline Alloys and Metallic Glasses: Assessment on the Structure, Thermal Stability, Corrosion and Mechanical Properties. *Materials*, 12(9), 1551. FI = 2.972, WOS:000469757500192, [link](#) (autor principal-corespondent)
24. Milosan, I., Cristea, D., Voiculescu, I., **Pop, M. A.**, Balat-Pichelin, M., Predescu, A. M., ... & Gabor, C. (2019). Characterisation of EN 1.4136 stainless steel heat-treated in solar furnace. *The International Journal of Advanced Manufacturing Technology*, 101(9-12), 2955-2964. FI = 2.496, WOS:000463669500060, [link](#)
25. Stoicanescu, M., Crisan, A., Milosan, I., **Pop, M. A.**, GARCIA, J. R., Giacomelli, I., ... & Chivu, O. R. (2019). Heat Treatment of Steel 1.1730 with Concentrated Solar Energy. *MATERIALE PLASTICE*, 56(1), 261-270. FI = 1.393, WOS:000464604100052, [link](#) (autor principal-corespondent)
26. Ghiuta, I., Gatto, A., Bassoli, E., Munteanu, S. I., Bedo, T., **Pop, M. A.**, ... & Varga, B. (2018). The Influence of Powder Particle and Grain Size on Parts Manufacturing by Powder Bed Fusion. In *Materials Science Forum*(Vol.941, pp.1585-1590). Trans Tech Publications Ltd. FI = 0.399, WOS:000468152500263, [link](#)
27. Milosan, I., Florescu, M., Cristea, D., Voiculescu, I., **Pop, M. A.**, Cañadas, I., ... & Bedo, T. (2020). Evaluation of Heat-Treated AISI 316 Stainless Steel in Solar Furnaces to Be Used as Possible Implant Material. *Materials*, 13(3), 581. FI = 2.972, WOS:000515503100088, [link](#)
28. Croitoru, C., **Pop, M. A.**, Bedo, T., Cosnita, M., Roata, I. C., & Hulka, I. (2020). Physically crosslinked poly (vinyl alcohol)/kappa-carrageenan hydrogels: Structure and applications. *Polymers*, 12(3), 560. FI = 3.164, WOS:000525952000059, [link](#) (autor principal-corespondent)
29. Geaman, V., **Pop, M. A.**, Radomir, I., Semenescu, A., Florea, B., & Chivu, O. R. (2020). The influence of thermal behaviour to composites based on cotton tissue and unsaturated polyester resin. *Materiale Plastice*, 57(1), 197-201. FI = 1.517, WOS:000528195000022, [link](#) (autor principal-corespondent)
30. 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. FI=2.117, WOS:000540220000093, [link](#)
31. 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*, 13(10), 2310. FI=3.057, WOS:000539277000102, [link](#)
32. **Pop, M. A.**, Croitoru, C., Bedo, T., Geamăn, V., Radomir, I., Zaharia, S. M., & Chicoş, L. A. (2020). Influence of internal innovative architecture on the mechanical properties of 3D polymer printed parts. *Polymers*, 12(5), 1129. FI = 3.426, WOS:000541431100134, [link](#)
33. Zaharia, S. M., Enescu, L. A., & **Pop, M. A.** (2020). Mechanical performances of lightweight sandwich structures produced by material extrusion-based additive manufacturing. *Polymers*, 12(8), 1740. FI = 3.426, WOS:000564679500001, [link](#)
34. Catana, D., & **Pop, M. A.** (2021). Studies regarding simulation process to static loading of the structures obtained from polylactic acid, 3D printed. *Journal of Applied Polymer Science*, 138(6), 50036. FI = 3.125, WOS:000575801800001, [link](#)
35. Milosan, I., Bedó, T., Gabor, C., Munteanu, D., **Pop, M. A.**, Catana, D., ... & Varga, B. (2021). Characterization of aluminum alloy–silicon carbide functionally graded materials developed by centrifugal casting process. *Applied Sciences*, 11(4), 1625. FI = 2.679, WOS:000632102500001, [link](#)
36. Mocanu, A. C., Miculescu, F., Stan, G. E., Pandele, A. M., **Pop, M. A.**, Ciocoiu, R. C., ... & Ciocan, L. T. (2021). Fiber-templated 3D calcium-phosphate scaffolds for biomedical applications: the role of the thermal treatment ambient on physico-chemical properties. *Materials*, 14(9), 2198. FI = 3.623, WOS:000650579700001, [link](#)

37. Buican, G. R., Zaharia, S. M., **Pop, M. A.**, Chicos, 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(5), 601. FI = 2.881, WOS:000653745700001, [link](#)
38. Catana, D., **Pop, M. A.**, & Brus, D. I. (2021). Comparison between the test and simulation results for PLA structures 3D printed, bending stressed. *Molecules*, 26(11), 3325. FI = 4.412, WOS:000660469500001, [link](#)
39. **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*, 16(5), 672. FI = 4.7, WOS:001182946900001, [link](#)
40. Bedo, T., **Pop, M. A.**, Geaman, V., Radomir, I., Semenescu, A., Ghiban, B., & Florea, B. (2021). Material Consumption Reduction and the Influence on the Mechanical Properties of the 3D Printed Parts for ABS Silver. *Materiale Plastice*, 58(3), 99-108. FI = 0.593, WOS:000756838700001, [link](#)
41. Chicos, L. A., Zaharia, S. M., Cempura, G., Kruk, A., Lech, S., Kryshstal, O., **Pop MA.** ... & Lancea, C. (2021). Effect of concentrated solar energy on microstructure evolution of selective laser melted Ti-6Al-4V alloy. *The International Journal of Advanced Manufacturing Technology*, 1-25. FI = 3.226, WOS:000706028400002, [link](#)
42. Catana, D. I., **Pop, M. A.**, & Brus, D. I. (2021). Comparison between tests and simulations regarding bending resistance of 3D printed PLA structures. *Polymers*, 13(24), 4371. FI = 4.329, WOS:000737468300001, [link](#)
43. Blaj, M. I., Zaharia, S. M., **Pop, M. A.**, & Oancea, G. H. E. O. R. G. H. E. (2022). Tensile properties and manufacturing defectives of short carbon fiber specimens made with the FDM process. *Mater. Plast*, 59(1), 33-43. FI = 0.782, WOS:000884788800001, [link](#)
44. Nicolau, A., **Pop, M. A.**, & Coșoreanu, C. (2022). 3D printing application in wood furniture components assembling. *Materials*, 15(8), 2907. FI = 3.748, WOS:000787943900001, [link](#)
45. **Pop, M. A.**, Croitoru, C., Bedo, T., Geamăn, V., Radomir, I., Crișan, A., ... & Chicoș, L. A. (2022). The Influence of Solar Sintering on Copper Heat Exchanger Parts with Controlled 3D-Printed Morphology. *Materials*, 15(9), 3324. FI = 3.748, WOS:000794752600001, [link](#)
46. 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*, 15(10), 3706. FI = 3.748, WOS:000804898400001, [link](#)
47. 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*, 14(14), 2923. FI = 4.967, WOS:000831977400001, [link](#)
48. 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*, 12(17), 8598. FI = 2.838, WOS:000852822200001, [link](#)
49. 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*, 14(22), 4988. FI = 4.967, WOS:000887644700001, [link](#)
50. 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*, 10(1), 60. FI = 2.1, WOS:000916773600001, [link](#)
51. Catana, D. I., Brus, D. I., & **Pop, M. A.** (2023). Modelling Influence on Bending Behaviour Simulation of the Poly (Lactic Acid) Structures, 3D Printed. *Polymers*, 15(4), 960. FI = 4.7, WOS:000940905500001, [link](#)
52. **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*, 15(11), 2487. FI = 4.7, WOS:001005765300001, [link](#)
53. Cosnita, M., Cazan, C., **Pop, M. A.**, & Cristea, D. (2023). Aging resistance under short time ultraviolet (UV) radiations of polymer wood composites entirely based on wastes. *Environmental Technology & Innovation*, 31, 103208. FI = 6.7, WOS:001015181400001, [link](#)

54. Lopes, C., Rodrigues, M. S., Ferreira, A., Macedo, F., Borsan, I., Gabor, C., **Pop M.A.**... & Vaz, F. (2023). The influence of the nanostructure design on the optical, electrical and thermal properties of TiNx thin films prepared by reactive magnetron sputtering. *Materials Chemistry and Physics*, 306, 127981. FI = 4.3, WOS:001027505100001, [link](#)
55. 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*, 15(18), 3695. FI = 4.7, WOS:001072568300001, [link](#) (autor principal-corespondent)
56. 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*, 7 (10), 602. FI = 4.4, WOS:001092500000001, [link](#)
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