

Nume Prenume: Popescu (Ghiuță) Ioana
Gradul didactic: Șef lucrări
Instituția unde este titular: Universitatea Transilvania din Brașov
Facultatea: Știința și Ingineria Materialelor
Departamentul: Știința Materialelor

**Lista celor maximum 10 lucrări considerate de candidat a fi cele mai
relevante pentru realizările profesionale proprii**

1. **Ghiuță, I.**, Croitoru, C., Kost, J., Wenkert, R., Munteanu, D, Bacteria-Mediated Synthesis of Silver and Silver Chloride Nanoparticles and Their Antimicrobial Activity, Appl. Sci. 2021, 11(7), 3134, IF = 2.474
2. Tiss, B., Moualhi, Y., Bouguila, N., Kraini M., Alaya, S., Croitoru, C., **Ghiuta, I.**, Cristea, D., Patroi, D., Moura, C., Cunha, L. titlu: Influence of the Physical Properties on the Antibacterial and Photocatalytic Behavior of Ag-Doped Indium Sulfide Film Deposited by Spray Pyrolysis, Coatings 2021, 11(4), 370, IF = 2.436
3. Cristea, D., Cunha, L., Gabor, C., **Ghiuta, I.**, et al., Tantalum Oxynitride Thin Films: Assessment of the Photocatalytic Efficiency and Antimicrobial Capacity, Nanomaterials 2019, 9(3), 476 IF = 4.034
4. Bedo, T. Varga, B., Cristea, D., Nitoi, A., Gatto, A., Bassoli, E., Bulai, G., Velicu, I.L., **Ghiuta, I.**, et al., Metastable Al–Si–Ni Alloys for Additive Manufacturing: Structural Stability and Energy Release during Heating, Metals 2019, 9(5), 483, IF = 2.259
5. Gabor, C., Cristea, D., Velicu I.L. Velicu, Bedo, T. Gatto, A., Bassoli, E., Varga, B., Pop M.A., Geanta, V., Stefanoiu, R., Codescu, M.M., Manta E., Patro, D., Florescu, M., Munteanu, S.I., **Ghiuta, I.**, et al., Ti–Zr–Si–Nb Nanocrystalline Alloys and Metallic Glasses: Assessment on the Structure, Thermal Stability, Corrosion and Mechanical Properties, Materials 2019, 12(9), 1551 FI = 2.972
6. **Ghiuță, I.** Cristea, D., Croitoru, C., Kost, J., Wenkert, R., Vyrides, I. Anayiotos, A., Munteanu, D. Characterization and antimicrobial activity of silver nanoparticles, biosynthesized using Bacillus species, Applied Surface Science 438 (2018) 66–73, FI = 4.439
7. Jinga, V., Mateescu, A.O., Cristea, D, Mateescu, G., Burducea, I., Ionescu, C., Crăciun, I., **Ghiuță, I.**, Samoliă, C., Ursuțiu, D, Munteanu, D., Compositional, morphological and mechanical investigations of monolayer type coatings obtained by standard and reactive magnetron sputtering from Ti, TiB2 and WC, Applied Surface Science, Volume 358, Part B, 15 (2015) 579–585, FI = 3.469
8. Milosan, I, Flamant, G, Voiculescu, I, Geanta, V, Munteanu, D, Bedo, T, Pop, MA, Semenescu, A, Crisan, A, Cristea, D, Giacomelli, I, Stoicanescu, M, Gabor, C, Sarbu, FA, **Ghiuta, I**, 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 69 (2018) 1050-1054 (IF - 1.412)



9. **Ghiuta I.**, Gatto, A., Bassoli, E., Munteanu, S.I., Bedo, T., Pop, M.A., Gabor C., Covei, M., Cosnita, M., Cristea, D., Varga, B., Munteanu, D. titlu: The Influence of Powder Particle and Grain Size on Parts Manufacturing by Powder Bed Fusion Materials Science Forum, Trans Tech Publications, Ltd., 941 (2018) 1585–1590, IF = 0.399
10. Bedo, T., Munteanu, S.I., **Popescu, I.**, Chiriac, A, Pop, M.A., Milosan, I., Munteanu, D., Method for translating 3D bone defects into personalized implants made by Additive Manufacturing, Materials Today-Proceedings, 11th International Conference on Materials Science and Engineering (BraMat), 19, Part 3 (2019) 1032-1040.



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L I S T A

contribuțiilor științifice în domeniul disciplinelor din postul didactic

Teza de doctorat

- Cercetări privind biosinteza nanoparticulelor metalice utilizând microorganisme
O.M. 3779/04.06.2018

Carti/capitole, ca autor, in edituri internationale

1. Ghiuta, I., Cristea, D. *Chapter 17: Silver nanoparticles for delivery purposes*. În cartea: Nanoengineered Biomaterials for Advanced Drug Delivery, Editura Elsevier, 2020, ISBN: 9780081029855, 820 pagini (25 pagini/capitol).

Carti/capitole, ca autor, in edituri nationale

1. Popescu, I. Materiale utilizate in industria auto, Editura Printech, București, ISBN: 978-606-23-1217-6, 2021, 162 pagini;
2. Gabor, C. Popescu, I. *Managementul proiectelor - manual destinat studentilor de la profile ingineresti*, Editura Printech, București, ISBN:978-606-23-0996-1, 2019, 150 pagini.
3. Ghiuță, I. Cristea, D. Munteanu, D. *Biosinteza nanoparticulelor metalice*, Editura Universității Transilvania din Brașov, Brasov, ISBN: 978-606-19-1011-3, 2018, 183 pagini;

Articole in extenso in reviste cotate și în proceedings indexate ISI Thomson Reuters

1. Ghiuță, I., Croitoru, C., Kost, J., Wenkert, R., Munteanu, D. Bacteria-Mediated Synthesis of Silver and Silver Chloride Nanoparticles and Their Antimicrobial Activity, Appl. Sci. 2021, 11(7), 3134, IF = 2.474



2. Tiss, B., Moualhi, Y., Bouguila, N., Kraini M., Alaya, S., Croitoru, C., **Ghiuta, I.**, Cristea, D., Patroi, D., Moura, C., Cunha, L. titlu:Influence of the Physical Properties on the Antibacterial and Photocatalytic Behavior of Ag-Doped Indium Sulfide Film Deposited by Spray Pyrolysis, *Coatings* 2021, 11(4), 370, IF = 2.436
3. Cristea, D., Cunha, L., Gabor, C., **Ghiuta, I.**, et al., Tantalum Oxynitride Thin Films: Assessment of the Photocatalytic Efficiency and Antimicrobial Capacity, *Nanomaterials* 2019, 9(3), 476 IF = 4.034
4. Bedo, T. Varga, B., Cristea, D., Nitoi, A., Gatto, A., Bassoli, E., Bulai, G., Velicu, I.L., **Ghiuta, I.**, et al., Metastable Al–Si–Ni Alloys for Additive Manufacturing: Structural Stability and Energy Release during Heating, *Metals* 2019, 9(5), 483, IF = 2.259
5. Gabor, C., Cristea, D., Velicu I.L. Velicu, Bedo, T. Gatto, A., Bassoli, E., Varga, B., Pop M.A., Geanta, V., Stefanoiu, R., Codescu, M.M., Manta E., Patro, D., Florescu, M., Munteanu, S.I., **Ghiuta, I.**, et al., Ti–Zr–Si–Nb Nanocrystalline Alloys and Metallic Glasses: Assessment on the Structure, Thermal Stability, Corrosion and Mechanical Properties, *Materials* 2019, 12(9), 1551 FI = 2.972
6. **Ghiuță, I.** Cristea, D., Croitoru, C., Kost, J., Wenkert, R., Vyrides, I. Anayiotos, A., Munteanu, D. Characterization and antimicrobial activity of silver nanoparticles, biosynthesized using *Bacillus* species, *Applied Surface Science* 438 (2018) 66–73, FI = 4.439
7. Jinga, V., Mateescu, A.O., Cristea, D., Mateescu, G., Burducea, I., Ionescu, C., Crăciun, I., **Ghiuță, I.**, Samoliă, C., Ursuțiu, D., Munteanu, D., Compositional, morphological and mechanical investigations of monolayer type coatings obtained by standard and reactive magnetron sputtering from Ti, TiB₂ and WC, *Applied Surface Science*, Volume 358, Part B, 15 (2015) 579–585, FI = 3.469
8. Milosan, I, Flamant, G, Voiculescu, I, Geanta, V, Munteanu, D, Bedo, T, Pop, MA, Semenescu, A, Crisan, A, Cristea, D, Giacomelli, I, Stoicanescu, M, Gabor, C, Sarbu, FA, **Ghiuta, I**, 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* 69 (2018) 1050–1054, FI = 1.412
9. **Ghiuta I.**, Gatto, A., Bassoli, E., Munteanu, S.I., Bedo, T., Pop, M.A., Gabor C., Covei, M., Cosnita, M., Cristea, D., Varga, B., Munteanu, D. titlu:The Influence of Powder Particle and Grain Size on Parts Manufacturing by Powder Bed Fusion *Materials Science Forum*, Trans Tech Publications, Ltd., 941 (2018) 1585–1590, IF = 0.399
10. **Ghiuta, I.**, Cristea, D., Wenkert, R., Munteanu, D., Green synthesis of silver chloride nanoparticles using *Rhodotorula Mucilaginosa*, *Materials Research Proceedings, Powder Metallurgy and Advanced Materials: RoPM&AM* 2017, 8 (2018) 28–34;
11. Bedo, T., Munteanu, S.I., **Popescu, I.**, Chiriac, A, Pop, M.A., Milosan, I., Munteanu, D., Method for translating 3D bone defects into personalized implants made by Additive Manufacturing, *Materials Today-Proceedings, 11th International Conference on Materials Science and Engineering (BraMat)*, 19, Part 3 (2019) 1032–1040.



12. D. Munteanu, T. Bedo, M.A. Pop, I. Milosan, C. Gabor, I. Ghiuta, S. Munteanu, D. Cristea, Influential parameters on the inductive quenching technology for large bearing rings, Metal 2018, 27th International Conference on Metallurgy and Materials (Metal 2018) 795-800

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1. Ghiuță, I., Cristea, D., Miloșan, I., Munteanu, D.: Synthesis of Metallic Nanoparticles Mediated by Microbes, RECENT, vol. 53pp. 177-183, 2017.
2. Ghiuță, I., Cristea, D., Munteanu, D.: Synthesis methods of metallic nanoparticles - an overview, Bulletin of the Transilvania University of Brasov, vol 10 (59) (2017), Series I – Engineering Sciences, ISSN 2065-2119, 133-140
3. Ghiuta, I., Cristea, D., Tint, D., Munteanu, D.: Surface Modification of Metallic Biomaterials Used as Medical Implants and Prostheses, Bulletin of the Transilvania University of Brasov, Vol. 8 (57) No.2- 2015, Series I – Engineering Sciences, ISSN 2065-2119, Pages 159-164
4. Cristea, D., Ghiuță, I., Munteanu, D.: Tantalum Based Materials for Implants and Prostheses Applications, Bulletin of the Transilvania University of Brasov, Vol. 8 (57) No.2- 2015, Series I – Engineering Sciences, ISSN 2065-2119, 151-158;
5. Pătru, M., Cristea, D., Ghiuță, I., Munteanu, D.: The effect of Ti /AlN interlayers on the mechanical and tribological behavior of DLC coatings, European Conference on Heat Treatment 2015 22nd IFHTSE Congress, 20 – 22 Mai Venetia, Italia;
6. Nitoi, A., Pop, M.A., Peng, T.T., Bedő, T. Munteanu, S.I. Ghiuta, I., Munteanu, D. titlu_art:Build Orientation Influence on some Mechanical Properties of 3D-Printed Polyamide Specimens, Advanced Engineering Forum, vol. 34, Trans Tech Publications, Ltd., (2019), 3–9.

Participare la conferințe internaționale

1. Popescu, I., Cristea, D., Vardanyan, A., Vardanyan, N., Silver nanoparticles' synthesis mediated by alpha-amylase, New Trends on Sensing - Monitoring - Telediagnosis for Life Sciences, Brașov, România, NT-SMT-LS-2020
2. Popescu Ioana, Antimicrobial activity of biosynthesized metallic nanoparticles, International Conference Microbes: Biology & Application 2019, Armenia, Yerevan, **Prezentare în plen.**



3. Bedo, T., Munteanu, S.I., **Popescu, I.**, Pop, M.A., Cristea, D., Milosan, I., Munteanu, D., Method for translating 3D bone defects into personalized implants made by additive manufacturing, 11th International Conference on Materials Science & Engineering, 2019, Braşov, Romania
4. Nitoi, A., Bedo, T., Varga, B., Pop, M.A., Gabor, C., **Ghiuta, I.**, Cristea, D., Munteanu, D., Microstructure, phase transformations and properties' evaluation of Al-Si-Ni metastable alloys, 11th International Conference on Materials Science & Engineering, 2019, Braşov, Romania
5. **Ghiuță, I.** Cristea, D. Munteanu, D. Biosynthesis of metallic nanoparticles using microorganisms, 10th International Conference on Materials Science & Engineering, 2017, Braşov, Romania
6. Munteanu, D., Bedo, T. Pop, M.A., Miloşan, I. Gabor, C., **Ghiuță, I.**, D. Munteanu, S. Cristea, D., Influential parameters on the inductive quenching technology for large bearing rings, 27th International Conference of Metallurgy and Materials – METAL 2018
7. **Ghiuță, I.**, D. Cristea, I. Vyrides, A. Anayiotos, D. Munteanu: Biosynthesis of zinc oxide nanoparticles using Enterobacter, 10th International Conference on Materials Science & Engineering, 2017, Braşov, Romania
8. **Ghiuță, I.**, Kost, J., Wenkert, R., Munteanu, D.: Green synthesis of silver chloride nanoparticles using Rhodotorula Mucilaginosa, 5th International Conference on Powder Metallurgy & Advanced Materials, 2017, Cluj, România
9. **Ghiuță, I.** Cristea, D., Wenkert, R., Munteanu, D.: Precursor concentration influence on the morphology and antimicrobial activity of silver chloride nanoparticles. In: Book of Abstracts, 5th International Conference on Powder Metallurgy & Advanced Materials, Cluj, România, 2017.
10. **Ghiuță I.**, Cristea D, Țiņ D, Munteanu D., Surface modification of metallic biomaterials used as medical implants and prostheses, New Trends on Sensing - Monitoring - Telediagnosis for Life Sciences, Braşov, România, NT-SMT-LS September 3-5, 2015
11. Cristea D., **Ghiuță I.**, Munteanu D., Thin film coatings for implants and prostheses applications, New Trends on Sensing - Monitoring - Telediagnosis for Life Sciences, Braşov, România, NT-SMT-LS September 3-5, 2015
12. Patru, M., D. Cristea, I. **Ghiuță**, D. Munteanu , The Effect of AlN/Ti Interlayers on the Mechanical and Tribological Behaviour of DLC Coatings; European Conference of Heat Treatment 2015 & 22nd IFHSTE Congress, 20-22 May 2015, Venice, Italy
13. D. Cristea, L. Cunha, I. **Ghiuță**, N.P. Barradas, E. Alves, D. Munteanu: Photocatalytic Behaviour of Magnetron Sputtered Tantalum Oxynitride Thin Films, International Conference on Materials Science and Engineering - BRAMAT 2015, 05-07 Martie 2015, Braşov, România.



Proiecte/granturi internaționale

1. Director: FP7-SFERA III, Grant nr. 823802: SURPF1904050065, Eco-friendly Nanoparticles used in Solar Photocatalysis Treatments of Wastewater) 2020-2021
2. Membru: Driving up reliability and efficiency of additive manufacturing, FOF-13-2016 (HORIZON 2020), nr. 723699, 2016-2019
3. Membru: FP7-SFERA II, Grant nr.:312643 P1502060091, Using the solar energy to heat treatments of special alloys resistant to low temperatures, 2015-2016

Proiecte/granturi naționale

1. Membru: Noi metodologii de diagnosticare si tratament: provocari actuale si solutii tehnologice bazate pe nanomateriale si biomateriale, UEFISCDI, 58PCCDI, 2018-2021
2. Membru: Magnetron sputtered Me-Me binary oxynitride multifunctional thin solid films, UEFISCDI, nr. PN-III-P1-1.1-TE, 2019-prezent

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14.06.2021

Candidat,
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