

Lucrări publicate în reviste clasificate ISI/Papers in ISI ranked journals

2023

1. M.A. Mihai, T. Spataru, S. Somacescu, O. G. Moga, L. Preda, M. Florea, A.C. Kuncser, N. Spataru, Nitrite anodic oxidation at Ni (II)/Ni (III)-decorated mesoporous SnO₂ and its analytical applications, *Analyst*, 2023, 23. IF=4.2
2. L. G. Coman, M. Marcu, T. Acsente, S. Vizireanu, V. Satulu, G.Dinescu, El. Matei, T. Spataru, N. Spataru, L. Preda, Hybrid nanostructures based on vertically graphenes decorated with tungsten oxide nanoparticles for enhanced capacitive performance, *Diamond & Related Materials*, 139 (2023) 110316. IF=4.1
3. L. Preda, S. A. Leau, C. Donath, E. I.a Neacsu, M. E. Maxim, V. Satulu, A. Paraschiv, M. Marcu* Investigation of Long-Term Corrosion of CoCrMoW Alloys under Simulated Physiological Conditions, *Metals* 2023, 13, 1881. IF=2.9
4. S.A. Leau, C. Lete, S. Lupu Nanocomposite Materials based on Metal Nanoparticles for the Electrochemical Sensing of Neurotransmitters, *Chemosensors*, 2023, 11(3), 179 IF=4.2
5. S.A. Leau, C. Lete, C. Matei, S. Lupu, Electrochemical Sensing Platform Based on Metal Nanoparticles for Epinephrine and Serotonin, *Biosensors*, 2023, 13 (8), 781 IF=5.4
6. V. Anastasoae, O.T. Matica, C. Lete, E.M. Ungureanu, Electrochemical Studies of Azulene Modified electrodes, *Symmetry* , 2023, 15(2):514 IF=2.7
7. S.A. Leau, C. Lete, M. Marin, F.J. del Combo, I. Diaconu, S. Lupu, Electrochemical sensors based on antimony tin oxide-Prussian blue screen-printed electrode and PEDOT-Prussian blue for potassium ion detection, *Journal of Solid State Electrochemistry*, 2023, 27(7):1-12 IF=2.5
8. G. Dobri, A. Banu, C. Donath, M. Marcu, The Influence of the Tantalum Content on the Main Properties of the T_xTa₉Nb₈Zr₂Ag Alloy, *Metals* 2023, 13, 1294. IF=2.9
9. F. Branzoi S. Petrescu, The Electrodeposition of Derivatives of Pyrrole and Thiophene on Brass Alloy in the Presence of Dodecane-1-Sulfonic Acid Sodium Salt in Acidic Medium and Its Anti-Corrosive Properties, *Coatings* 2023, 13, 953. IF=3.4
10. A.M.J. Popescu, F. Branzoi, M. Burada, J. Calderon Moreno, M. Anastasescu, I. Anasiei, M.T. Olaru, V. Constantin *, Modeling, microstructure and corrosion behavior of CoCrFeMnNi High-Entropy Alloy thin films electrodeposited on aluminium support, *Coatings*, 2023, 13, 980 IF=3.4
11. I. Anasiei, D. Mitrica, I.-C. Badea, B.A. Serban, J.Trapp , A. Storz , I. Carcea , M.T. Olaru, M. Burada , N. Constantin ,A. C. Matei , A.M.J. Popescu , M. Ghita, Characterization of

Complex Concentrated Alloys and Their Potential in Car Brake Manufacturing, *Materials*, 2023, 16, 5067 IF=3.57

2022

1. Lete, C., López -Iglesias, D., García-Guzmán, J.J., Leau S.-A., Stanciu A.-E., Marin M., Lupu, S., Cubillana-Aguilera, L., A sensitive electrochemical sensor based on sonogel-carbon material enriched with gold nanoparticles for melatonin determination, *Sensors*, 22(1),120, 2022 IF=3.74
2. C. Lete, A.-M. Spinciu, M.-G. Alexandru, J. Calderon Moreno, S.-A. Leau, M. Marin, D. Visinescu, Copper (II) Oxide Nanoparticles Embedded within a PEDOT Matrix for Hydrogen Peroxide Electrochemical Sensing, *Sensors* 2022, 22, 8252. IF=3.74
3. T. Spataru, A.M. Mihai, L. Preda, M. Marcu, N. Spataru et.all, Enhanced Photoelectrochemical Activity of WO₃ Decored native Titania Film by Mild Laser Treatment, *Appl. Surf. Scie.*, 596,2022, 15368. I.F.=7.33;
4. M. Marcu, L. Preda, S. Vizireanu, B. Bitu, M. A. Mihai, T. Spataru, T. Acsente, Gh.Dinescu, N. Spataru, Enhancement of the capacitive features of WO₃ supported on pristine and functionalized graphite by appropriate adjustment of the electrodeposition regime, *Mater. Scie. Eng. B*, 277, (2022) 115585. I.F.=3.68;
5. A. Banu, L. Preda, M. Marcu*, L.L. Dinca, M. E. Maxim, G. Dobri, Electrochemical behavior of SLM Ti-6Al-4V alloy after long time of immersion in lactic acid environment, *Met. Mater. Trans A*, 53, 2022, 2060–2070. I.F.=2.72;
6. R.E. Hendea, D. Raducanu, A. Nocivin, S. Ivanescu,D. Stanciu, S.I. Drob, R.S. campian, V.D. Cojocar, B.M. Galbinasu, Laser Powder Bed Fusion Applied to a New Biodegradable Mg-Zn-Zr-Ca Alloy, *Materials*, 2022, 15(7), 2561. I.F.=3.74;
7. D. Raducanu, A. Nocivin, S. Ivanescu, D. Stanciu, S.I. Drob, R.S. Campian, V.D. Cojocar, R. Hendea, Mechanical Alloying Process Applied for Obtaining a New Biodegradable Mg-xZn-Zr-Ca Alloy, *Metals* 2022, 12(1), 132. I.F.=2.69;
8. F. Branzoi, M. A. Mihai, S. Petrescu, Corrosion protection efficacy of the electrodeposited of poly (N-methyl pyrrole-Tween20/3 -methyl thiophene) coatings on carbon steel in acid medium, *Coatings* 2022, 12 (8), 1062, I.F.=3.23;
9. A.M.Popescu, V.Constantin*, Thermophysical and Transport Properties of the BaCl₂-CsCl High Temperature Ionic Liquid Mixtures, *J. Braz. Chem. Soc.*, Vol. 33, No. 5, 456-465, 2022. I.F.=1.83;

10. I.C. Badea *, I. Csaki, B. A. Serban, N. Constantin, D. Mitrica *, M. Burada, I. Anasiei, M.T. Olaru, A. N. Ghita, A.M.J. Popescu, Characterization of a novel complex concentrated alloy for marine application, *Materials*, 2022, 15, 3345. I.F.=3.74;
11. A.M. Popescu, O. Demidenko, K. Yanushkevich, C. Donath, E. I. Neacsu, V. Constantin*, Influence of seawater corrosion on structure and magnetic properties of the SR355JR and S355J2 carbon steels, *J. Mexican. Chem. Soc.*, 66(3), p.300-311, 2022. I.F.=0.53;
12. A.M. Popescu, F. Branzoi, M. Burada, I. Atkinson, I. Constantin, J.C. Moreno, F. Miculescu, D. Mitrica, I.C. Badea, M.T. Olaru, V. Constantin*, Influence of heat treatment on the microstructure and corrosion behavior of electrodeposited CoCrFeMnNi high entropy alloy thin films" *Coatings*, 2022, 12(8), 1108(1-22) I.F.=3.23;
13. B.A. Șerban, M.T. Olaru, I.C. Badea, D. Mitrică, M. Burada, I. Anasiei, M. Ghiță, A. I. Tudor, C. A. Matei, A.M.J. Popescu, V. Constantin, F. Brânzoi, C. Dobrescu, N. Constantin, Non-aqueous electrodeposition and characterization of AlCrCuFeNi high entropy alloy thin films, *Materials*, 2022, 15, 6007, I.F.=3.74;

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1. Garcia-Guzman J.J., Lopez-Iglesias D., Cubillana-Aguilera L., Bellido-Milla D., Palacios-Santander J. M., Marin M., Grigorescu S.D., Lete C., Lupu S., Silver nanostructures - poly(3,4-ethylenedioxythiophene) sensing material prepared by sinusoidal voltage procedure for detection of antioxidants, *Electrochim. Acta*, 393, 10, 139082, 2021, I.F.=6.9;
2. M. A. Mihai, D. Culita, I. Atkinson, F. Papa, I. Popescu, I.C. Marcu*, Unraveling mechanistic aspects of the total oxidation of methane over Mn, Ni and Cu spinel cobaltites via in situ electrical conductivity measurements, *Applied Catalysis A: General* 611, 117901 (2021). I.F.=5.7;
3. F Branzoi, A Băran, S Petrescu, Evaluation of Corrosion Protection Performance of New Polymer Composite Coatings on Carbon Steel in Acid Medium by Electrodeposition Methods, *Coatings* 11 (8), 2021, 903. I.F.=2.88;
4. B.A.Serban, I.C.Badea, N.Constantin, D.Mitrica, M.T.Olaru, M.Burada, I.Anisei, S.E.Bejan, A.N.Ghita, A.M.J.Popescu, Modeling and characterization of complex concentrated alloys with reduced content of critical raw materials, *Materials*, 14, 5263-5285,2021, I.F.= 3.62;

5. A.M. Popescu, F. Branzoi, I. Constantin, M. Anastasescu, M. Burada, D. Mitrică, I. Anasiei, M.T. Olaru, V. Constantin*, Electrodeposition, characterization and corrosion behaviour of CoCrFeMnNi high entropy alloy thin films, *Coatings* ,11, 1367-1380, 2021
6. Neacsu, I.A.; Leau, S.-A.; Marin, S.; Holban, A.M.; Vasile, B.-S.; Nicoara, A.-I.; Ene, V.L.; Bleotu, C.; Albu Kaya, M.G.; Fikai, A. Collagen-Carboxymethylcellulose Biocomposite Wound-Dressings with Antimicrobial Activity. *Materials* 2021, 14, 1153. I.F.=3.62;
7. F. Khoshnaw, C. Marinescu A. Sofronia C. Munteanu, M. Marcu, L.E. Barbulescu, C. Ciobota, E.M. Cojocar, S. Tanasescu, A. Paraschiv, Microstructural and thermoanalytical characterization of super duplex stainless steel - UNS S32760-F55, *Mater. Today Commun.*, 28, 2021, 102644, I.F.=2.87;