Bogdan Istrate

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Properties and in vitro assessment of ZrO2-based coatings obtained by atmospheric plasma jet spraying on biodegradable Mg-Ca and Mg-Ca-Zr alloys. Ceramics International, 2020, 46, 15897-15906.	4.8	36
2	Microstructural Analysis and Tribological Behavior of Ti-Based Alloys with a Ceramic Layer Using the Thermal Spray Method. Coatings, 2020, 10, 1216.	2.6	27
3	Synthesis and adsorption properties of nanocrystalline ferrites for kinetic modeling development. International Journal of Applied Ceramic Technology, 2019, 16, 693-705.	2.1	21
4	Characterization of Some Master Mg-X System (Ca, Mn, Zr, Y) Alloys Used in Medical Applications. Revista De Chimie (discontinued), 2017, 68, 1310-1315.	0.4	19
5	In vivo degradation behavior and biological activity of some new Mg–Ca alloys with concentration's gradient of Si for bone grafts. Applied Surface Science, 2015, 352, 140-150.	6.1	18
6	Microstructural Analysis and Tribological Behavior of AMDRY 1371 (Mo–NiCrFeBSiC) Atmospheric Plasma Spray Deposited Thin Coatings. Coatings, 2020, 10, 1186.	2.6	18
7	Influence of ZrO ₂ -Y ₂ O ₃ and ZrO ₂ -CaO coatings on microstructural and mechanical properties on Mg-1,3Ca-5,5Zr biodegradable alloy. IOP Conference Series: Materials Science and Engineering, 2016, 133, 012010.	0.6	16
8	Electrochemical Behavior of Biodegradable FeMnSi–MgCa Alloy. Metals, 2018, 8, 541.	2.3	15
9	Microstructural, Electrochemical and In Vitro Analysis of Mg-0.5Ca-xGd Biodegradable Alloys. Applied Sciences (Switzerland), 2021, 11, 981.	2.5	15
10	The Influence of Chromium Content on the Structural and Mechanical Properties of AlCr _x FeCoNi High Entropy Alloys. International Journal of Engineering Research in Africa, 2018, 37, 23-28.	0.7	14
11	Eco-Friendly Biosorbents Based on Microbial Biomass and Natural Polymers: Synthesis, Characterization and Application for the Removal of Drugs and Dyes from Aqueous Solutions. Materials, 2021, 14, 4810.	2.9	14
12	The influence of ZrO 2 /20%Y 2 O 3 and Al 2 O 3 deposited coatings to the behavior of an aluminum alloy subjected to mechanical shock. Applied Surface Science, 2015, 352, 169-177.	6.1	12
13	Microstructural analysis of biodegradable Mg-0.9Ca-1.2Zr alloy. IOP Conference Series: Materials Science and Engineering, 2016, 147, 012033.	0.6	12
14	Electrochemical Analysis and In Vitro Assay of Mg-0.5Ca-xY Biodegradable Alloys. Materials, 2020, 13, 3082.	2.9	12
15	Powder metallurgy and mechanical alloying effects on the formation of thermally induced martensite in an FeMnSiCrNi SMA. MATEC Web of Conferences, 2015, 33, 04004.	0.2	10
16	Hot Rolling Effects on the Microstructure and Chemical Properties of NiTiTa Alloys. Journal of Materials Engineering and Performance, 2019, 28, 7273-7280.	2.5	10
17	Nanostructured quaternary Ni1-xCuxFe2-yCeyO4 complex system: Cerium content and copper substitution dependence of cation distribution and magnetic-electric properties in spinel ferrites. Ceramics International, 2021, 47, 18177-18187.	4.8	10
18	IN VITRO ELECTROCHEMICAL PROPERTIES OF BIODEGRADABLE YSZ-COATED MgCa ALLOY. Environmental Engineering and Management Journal, 2016, 15, 955-963.	0.6	10

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19	Controlling and Monitoring of Welding Parameters for Micro-Alloyed Steel Pipes Produced by High Frequency Electric Welding. Advanced Materials Research, 2014, 1036, 464-469.	0.3	9
20	A Study of Martensite Formation in Powder Metallurgy Fe-Mn-Si-Cr-Ni Shape Memory Alloys. Materials Today: Proceedings, 2015, 2, S789-S792.	1.8	9
21	Electro-chemical Corrosion of a Cast Iron Protected with a Al2O3 Ceramic Layer. Revista De Chimie (discontinued), 2019, 69, 3586-3589.	0.4	9
22	Evaluation of Keratin/Bacterial Cellulose Based Scaffolds as Potential Burned Wound Dressing. Applied Sciences (Switzerland), 2021, 11, 1995.	2.5	8
23	New Zn3Mg-xY Alloys: Characteristics, Microstructural Evolution and Corrosion Behavior. Materials, 2021, 14, 2505.	2.9	8
24	Factors influencing martensite transitions in Fe-based shape memory alloys. MATEC Web of Conferences, 2015, 33, 04002.	0.2	7
25	Preliminary Results of FeMnSi+Si(PLD) Alloy Degradation. Key Engineering Materials, 0, 638, 117-122.	0.4	7
26	XRD and Microstructural Analyses on Biodegradable Mg Alloys. Key Engineering Materials, 2015, 638, 79-84.	0.4	7
27	Preliminary Microstructural and Microscratch Results of Ni-Cr-Fe and Cr3C2-NiCr Coatings on Magnesium Substrate. IOP Conference Series: Materials Science and Engineering, 2017, 209, 012024.	0.6	7
28	Structural Characterization of Mg-0.5Ca-xY Biodegradable Alloys. Key Engineering Materials, 2018, 782, 129-135.	0.4	7
29	Tribological Behavior and Microstructural Analysis of Atmospheric Plasma Spray Deposited Thin Coatings on Cardan Cross Spindles. Materials, 2021, 14, 7322.	2.9	7
30	Biosorption Potential of Microbial and Residual Biomass of Saccharomyces pastorianus Immobilized in Calcium Alginate Matrix for Pharmaceuticals Removal from Aqueous Solutions. Polymers, 2022, 14, 2855.	4.5	7
31	The behavior of ZrO 2 /20%Y 2 O 3 and Al 2 O 3 coatings deposited on aluminum alloys at high temperature regime. Applied Surface Science, 2015, 352, 178-183.	6.1	6
32	Corrosion behavior aspects of Ni-base self-fluxing coatings. IOP Conference Series: Materials Science and Engineering, 2016, 147, 012034.	0.6	6
33	Micro-structural and morphological analyses of coated â€~liquid wood' samples by ceramic particles. Materials Research Express, 2019, 6, 085326.	1.6	6
34	Improvements of Arboblend V2 Nature Characteristics through Depositing Thin Ceramic Layers. Polymers, 2021, 13, 3765.	4.5	6
35	Effect of thermal oxidation on electrochemical corrosion behaviour of ZrTi alloys for dental applications. Materials and Corrosion - Werkstoffe Und Korrosion, 2015, 66, 1529-1535.	1.5	5
36	Preliminary experimental research on friction characteristics of a thick gravitational casted babbit layer on steel substrate. IOP Conference Series: Materials Science and Engineering, 2016, 147, 012028.	0.6	5

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37	Surface Characterization of Fracture in Polylactic Acid vs. PLA + Particle (Cu, Al, Graphene) Insertions by 3D Fused Deposition Modeling Technology. Coatings, 2021, 11, 633.	2.6	5
38	Long Term Evaluation of Biodegradation and Biocompatibility In-Vivo the Mg-0.5Ca-xZr Alloys in Rats. Crystals, 2021, 11, 54.	2.2	5
39	Morphological Analysis of Laser Surface Texturing Effect on AISI 430 Stainless Steel. Materials, 2022, 15, 4580.	2.9	5
40	Experimental investigation on wear resistance of a new cutting fluid using a four ball tribometer – optimization of additive percent. MATEC Web of Conferences, 2017, 112, 07026.	0.2	4
41	The Study of Microstructure of the MgCa Alloys in their Use in Biodegradable Orthopedic Implants. Advanced Materials Research, 2014, 1036, 207-211.	0.3	3
42	Study on structure and properties of CuZn40Pb alloy. IOP Conference Series: Materials Science and Engineering, 2016, 133, 012015.	0.6	3
43	Sustainable Functionalization of PAN to Improve Tinctorial Capacity. Polymers, 2021, 13, 3665.	4.5	3
44	Evaluation of the Fatigue Behaviour and Failure Mechanisms of 52100 Steel Coated with WIP-C1 (Ni/CrC) by Cold Spray. Materials, 2022, 15, 3609.	2.9	3
45	Comparative <i>In Vitro</i> Study on MgCa Si MgCaSi Alloys, as Biodegradable Implants. Applied Mechanics and Materials, 0, 659, 75-80.	0.2	2
46	Tribological Tests and SEM Analysis for Titanium Oxide Layers. Key Engineering Materials, 2014, 614, 74-79.	0.4	2
47	Wear Resistance and XRD Analyses of CNiCrSiBO Coatings Obtained by Thermal Deposition on OLC45 Substrate. Applied Mechanics and Materials, 2014, 659, 16-21.	0.2	2
48	Influence of Time on Thermal Oxidation of CP-Ti Grade II at 850 °C. Key Engineering Materials, 2014, 614, 35-40.	0.4	2
49	Structural Modification of $\hat{l}\pm$ -Ti Based Alloy after Submission to Open Flame Thermal Shock. Key Engineering Materials, 0, 638, 333-338.	0.4	2
50	Study of fatigue behavior of longitudinal welded pipes. IOP Conference Series: Materials Science and Engineering, 2016, 145, 022032.	0.6	2
51	Microstructural Investigations on Alloy Mg-2Ca-0.2Mn-0.5Zr-1Y. IOP Conference Series: Materials Science and Engineering, 2017, 209, 012018.	0.6	2
52	Plasma sprayed coatings on crankshaft used steels. IOP Conference Series: Materials Science and Engineering, 2017, 227, 012077.	0.6	2
53	Analyze of Cutting Effect on Ceramic Coated Steels. Procedia Manufacturing, 2020, 47, 808-811.	1.9	2
54	Quality of pellets produced from agricultural wood residues specific to the Prut river basin. Ukrainian Black Sea Region Agrarian Science, 2021, 109, 84-93.	0.3	2

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55	Polymer-Cement Composites Glazing by Concentrated Solar Energy. Coatings, 2021, 11, 350.	2.6	2
56	The Influence of the Environment for Glass-Reinforced Plastic Composite Material Used for Ground Water Transport Pipes. Materials, 2021, 14, 3160.	2.9	2
57	A Qualitative Assessment of the Specific Woody Biomass of Fruit Trees. Forests, 2022, 13, 405.	2.1	2
58	Wear Resistance and XRD Analyses of CMoCuNiCrSiBO Coatings Obtained by Thermal Deposition on OLC45 Substrate. Applied Mechanics and Materials, 0, 659, 10-15.	0.2	1
59	Influence of the Degree of Cold Drawing on the Microstructure and Properties of Pipes Used for Dampers. Advanced Materials Research, 0, 1036, 134-139.	0.3	1
60	Increased Resistance to Mechanical Shock of Metallic Materials by Metal-Ceramic Surface Coatings. Key Engineering Materials, 2015, 638, 316-321.	0.4	1
61	Comparative XRD and Microstructure Analysis on Biodegradable Mg-Si-Ca Alloys. Key Engineering Materials, 0, 660, 51-56.	0.4	1
62	Effect of the Template on the Textural Properties of the Macrospherical Trimodal Metallosilicate Materials. Journal of Inorganic and Organometallic Polymers and Materials, 2015, 25, 1060-1068.	3.7	1
63	Investigations of Thin Films Obtained by Plasma Jet Method on a Stainless Steel Used in Turbine Blades Construction. Key Engineering Materials, 2017, 750, 85-90.	0.4	1
64	Ti-Mo-Zr-Ta Alloy for Biomedical Applications: Microstructures and Mechanical Properties. Key Engineering Materials, 2017, 750, 184-188.	0.4	1
65	Coating of Liquid Wood Sheets. Materials Science Forum, 2017, 907, 134-139.	0.3	1
66	Surface Characterization of New Biomaterials. IOP Conference Series: Materials Science and Engineering, 2017, 209, 012022.	0.6	1
67	Some Tribological Aspects of Mg-0.5Ca-xY Biodegradable Materials. Key Engineering Materials, 0, 782, 136-141.	0.4	1
68	Hard meso/macroporous iron oxide/iron silicate macrospheres obtained by the multiâ€ŧemplating technique. Journal of Chemical Technology and Biotechnology, 2019, 94, 2888-2898.	3.2	1
69	Experimental EDX analysis of different periodontal splinting systems. Experimental and Therapeutic Medicine, 2021, 22, 1384.	1.8	1
70	The Influence of Zr on Microstructure, Mechanical Properties and Corrosion Resistance in Mg-Y-Zr Biodegradable Alloys. Revista De Chimie (discontinued), 2019, 69, 3382-3385.	0.4	1
71	Novel Mg-0.5Ca-xMn Biodegradable Alloys Intended for Orthopedic Application: An In Vitro and In Vivo Study. Materials, 2021, 14, 7262.	2.9	1
72	Friction Studies over Idlers Sprayed with Al2O3 Powder Using Athmosferic Plasma Spraying Method. Advanced Materials Research, 0, 1036, 218-222.	0.3	0

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73	A Study on Plastic Deformations due to Contact Fatigue Wear on a Cermet Coating Deposited by Thermal Spraying Methods. Applied Mechanics and Materials, 2014, 659, 34-39.	0.2	0
74	Contact Wear Studies over Idlers Sprayed with Ni Al Si Powder Using Atmospheric Plasma Spraying Method. Advanced Materials Research, 0, 1036, 184-188.	0.3	0
75	Influence of the Degree of Cold Drawing over the Wear Test and XRD Analysis of Pipes Used for Dampers. Applied Mechanics and Materials, 2014, 659, 85-90.	0.2	0
76	Structural and Surface Characterization of some Ceramic Coatings Obtained by Plasma Jet Spraying on Metallic Biomaterials Substrates. Key Engineering Materials, 0, 614, 68-73.	0.4	0
77	Corrosion Behaviour of a Cermet Deposited Coating in Sulfuric Acid Solution. Applied Mechanics and Materials, 2014, 659, 28-33.	0.2	0
78	A comparative study of morphology and composition on oxide nanopowders elaborated by SPVD. IOP Conference Series: Materials Science and Engineering, 2015, 95, 012028.	0.6	0
79	Microstructural analysis and mechanical properties of biodegradable Mg-1.3Ca-5.5Zr alloy. IOP Conference Series: Materials Science and Engineering, 2016, 145, 072003.	0.6	O
80	Improvement of Structural Characteristics for CuZn Alloy through Heat Treatments. Key Engineering Materials, 0, 750, 3-8.	0.4	0
81	Electrochemical characterization of ZnMg-Ca biodegradable alloy. Materials Today: Proceedings, 2019, 19, 1026-1031.	1.8	O
82	Behavior of multilayer materials when exposed to open flame. Materials Today: Proceedings, 2019, 19, 1073-1080.	1.8	0
83	Nondestructive Evaluation of Biodegradable Magnesium Alloys. , 2020, , .		0
84	MACROSPHERICAL POROUS METALLOSILICATE MATERIALS: CHARACTERIZATION AND APPLICATIONS. Environmental Engineering and Management Journal, 2020, 19, 195-204.	0.6	0