

Julia Mirza Rosca

List of Publications by Year in descending order

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51
papers

1,445
citations

567281

15
h-index

315739

38
g-index

51
all docs

51
docs citations

51
times ranked

1199
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of the corrosion behavior of titanium and some of its alloys for biomedical and dental implant applications. <i>Journal of Electroanalytical Chemistry</i> , 1999, 471, 109-115.	3.8	458
2	EIS study of Ti and its alloys in biological media. <i>Journal of Electroanalytical Chemistry</i> , 2002, 526, 53-62.	3.8	141
3	Corrosion susceptibility of implant materials Ti-5Al-4V and Ti-6Al-4Fe in artificial extra-cellular fluids. <i>Electrochimica Acta</i> , 2004, 49, 2113-2121.	5.2	119
4	Surface analysis and corrosion resistance of a new titanium base alloy in simulated body fluids. <i>Corrosion Science</i> , 2012, 65, 431-440.	6.6	113
5	Effect of bacterial biofilm on 316 SS corrosion in natural seawater by eis. <i>Corrosion Science</i> , 1998, 40, 2141-2154.	6.6	101
6	Effect of thermo-mechanical processing on the corrosion resistance of Ti6Al4V alloys in biofluids. <i>Corrosion Science</i> , 2009, 51, 2885-2896.	6.6	91
7	Electrochemical characteristics of titanium based biomaterials in artificial saliva. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2007, 58, 848-856.	1.5	51
8	Effects of nickel content on the microstructure, microhardness and corrosion behavior of high-entropy AlCoCrFeNi _x alloys. <i>Scientific Reports</i> , 2020, 10, 21119.	3.3	40
9	New Titanium Alloys, Promising Materials for Medical Devices. <i>Materials</i> , 2021, 14, 5934.	2.9	33
10	The pigment influence on the anticorrosive performance of some alkyd films. <i>Materials Chemistry and Physics</i> , 2006, 100, 296-303.	4.0	30
11	EIS Characterization of Ti Alloys in Relation to Alloying Additions of Ta. <i>Materials</i> , 2022, 15, 476.	2.9	30
12	Corrosion resistance improvement of titanium base alloys. <i>Quimica Nova</i> , 2010, 33, 1892-1896.	0.3	27
13	Comparative EIS Study of Al _x CoCrFeNi Alloys in Ringer's Solution for Medical Instruments. <i>Metals</i> , 2021, 11, 928.	2.3	23
14	Electrochemical characterization of some cobalt base alloys in Ringer solution. <i>Materials Chemistry and Physics</i> , 2021, 260, 124164.	4.0	21
15	Corrosion behaviour in physiological fluids of surface films formed on titanium alloys. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2012, 63, 527-533.	1.5	15
16	Functional Bioglass/Biopolymer Double Nanostructure for Natural Antimicrobial Drug Extracts Delivery. <i>Nanomaterials</i> , 2020, 10, 385.	4.1	15
17	CORROSION BEHAVIOR OF SOME TITANIUM BASE ALLOYS IN ACID SOLUTIONS. <i>Materials and Manufacturing Processes</i> , 2005, 20, 35-45.	4.7	12
18	Comparative EIS study of titanium-based materials in high corrosive environments. <i>International Journal of Surface Science and Engineering</i> , 2021, 15, 152.	0.4	12

#	ARTICLE	IF	CITATIONS
19	Laser cladding: from experimental research to industrial applications. <i>Materials Today: Proceedings</i> , 2019, 19, 1059-1065.	1.8	9
20	Corrosion behavior in Ringer solution of several commercially used metal alloys. <i>Anti-Corrosion Methods and Materials</i> , 2021, 68, 324-330.	1.5	9
21	Comparative EIS study of a paste electrode containing zinc powder in neutral and near neutral solutions. <i>Journal of Solid State Electrochemistry</i> , 2002, 6, 119-125.	2.5	8
22	Effects of the chemical composition on the microstructural characteristics of Ti-Nb-Ta-Zr alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 572, 012022.	0.6	7
23	AlCoCrFeNi High Entropy Alloys as Possible Nuclear Materials. <i>Microscopy and Microanalysis</i> , 2020, 26, 406-407.	0.4	7
24	EIS DIAGNOSIS OF SOME DENTAL ALLOYS IN ARTIFICIAL SALIVA. <i>Environmental Engineering and Management Journal</i> , 2007, 6, 313-317.	0.6	7
25	Determination of the adhesion properties of an alkyd pigmented coating by electrochemical impedance spectroscopy. <i>Journal of Adhesion Science and Technology</i> , 1999, 13, 379-391.	2.6	6
26	Biocompatibility of New High-Entropy Alloys with Non-Cytotoxic Elements. <i>Microscopy and Microanalysis</i> , 2021, 27, 1772-1774.	0.4	5
27	Mechanical Properties and Corrosion Behavior of Thermally Treated Ti-6Al-7Nb Dental Alloy. <i>Materials</i> , 2022, 15, 3813.	2.9	5
28	Technical and functional properties of some biocompatible thin films. <i>Materials Chemistry and Physics</i> , 2004, 86, 38-43.	4.0	4
29	Characterisation of anodic films formed on titanium and its alloys. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2005, 56, 692-696.	1.5	4
30	Solar radiation synthesis of functional carbonaceous materials using Al ₂ O ₃ /TiO ₂ -Cu-HA doped catalyst. <i>Applied Surface Science</i> , 2018, 438, 33-40.	6.1	4
31	Effect of Al on Corrosion Behavior in 3.5%NaCl Solution of Al _x CoCrFeNi High Entropy Alloys. <i>International Journal of Engineering Research in Africa</i> , 0, 53, 20-30.	0.7	4
32	Analysis and Comparison of the Corrosive Behavior of Nickel-Based and Cobalt-Based Dental Alloys. <i>Materials</i> , 2021, 14, 4949.	2.9	4
33	COMPARATIVE CORROSION STUDY OF NON-PRECIOUS Ni/Cr-BASED SOFT ALLOYS IN VIEW OF DENTAL APPLICATIONS. <i>Environmental Engineering and Management Journal</i> , 2008, 7, 41-49.	0.6	4
34	Ti-Ta dental alloys and a way to improve gingival aesthetic in contact with the implant. <i>Materials Chemistry and Physics</i> , 2022, 287, 126343.	4.0	4
35	Pulsed Laser Cladding of NiCrBSiFeC Hardcoatings Using Single-Walled Carbon Nanotube Additives. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-12.	2.7	3
36	Past Advances and Future Perspective of Ti-Ta Alloys. <i>Global Journal of Engineering Sciences</i> , 2021, 7, .	0.2	3

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37	ELECTROCHEMICAL CHARACTERISTICS OF Ti6Al7Nb ALLOY IN RINGER'S SOLUTION. Environmental Engineering and Management Journal, 2009, 8, 29-36.	0.6	3
38	The Effect of Laser Shock Processing on Corrosion Resistance of Stainless Steel AISI 316L. Solid State Phenomena, 0, 216, 210-215.	0.3	2
39	Effect of Heat Treatment on the Microstructure and Corrosion Resistance of AlCoCrFeNi High-Entropy Alloy. Microscopy and Microanalysis, 2021, 27, 3372-3374.	0.4	2
40	ELECTROCHEMICAL CHARACTERIZATION OF SOME DENTAL MATERIALS IN ACCELERATED ENVIRONMENTAL TESTING. Environmental Engineering and Management Journal, 2009, 8, 397-407.	0.6	2
41	Electrochemical Determination of the Corrosion Resistance of Ag-Pd Dental Alloys. Revista De Chimie (discontinued), 2008, 59, .	0.4	2
42	Analysis of Bone-Implant Interface with Osseointegration Treatment. Microscopy and Microanalysis, 2020, 26, 304-305.	0.4	1
43	Static Testing and Fatigue Behavior of Three High-Entropy Alloys. Microscopy and Microanalysis, 2021, 27, 3270-3271.	0.4	1
44	Microstructure and Adjustment in Tensile Strength of Al _{0.8} CoCrFeNi Fibers. Microscopy and Microanalysis, 2021, 27, 3386-3388.	0.4	1
45	Osseointegration Improvement of Additive Manufactured Dental Alloys. Microscopy and Microanalysis, 2021, 27, 2388-2391.	0.4	1
46	Study of Biocompatibility, Mechanical Properties and Microstructural Analysis of Ag-Pd Alloy. Microscopy and Microanalysis, 2021, 27, 550-552.	0.4	1
47	In Vitro Behavior and Design of a New Type Implant with Nanostructured Surface. Materials Research Society Symposia Proceedings, 2011, 1316, 1.	0.1	0
48	Behavior of Two Titanium Alloys in Simulated Body Fluid. Materials Research Society Symposia Proceedings, 2011, 1355, 1.	0.1	0
49	In Vivo Studies of a Nanostructured Titanium Alloy Knee Plate and Pin. Materials Research Society Symposia Proceedings, 2011, 1349, 152301.	0.1	0
50	The Effect of Mo and Al on the Corrosion Behavior of Titanium and Some of its Alloys for Biomedical Applications. Solid State Phenomena, 0, 216, 11-16.	0.3	0
51	Comparative EIS study of titanium-based materials in high corrosive environments. International Journal of Surface Science and Engineering, 2021, 15, 152.	0.4	0