

Ioana Demetrescu

List of Publications by Year in descending order

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104
papers

1,760
citations

304368

22
h-index

315357

38
g-index

104
all docs

104
docs citations

104
times ranked

2021
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.6	119
2	Reduced inflammatory activity of RAW 264.7 macrophages on titania nanotube modified Ti surface. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 55, 187-195.	1.2	94
3	Characterisation and corrosion resistance of the electrodeposited hydroxyapatite and bovine serum albumin/hydroxyapatite films on Ti-6Al-4V-1Zr alloy surface. <i>Corrosion Science</i> , 2011, 53, 992-999.	3.0	91
4	Corrosion, antibacterial activity and haemocompatibility of TiO ₂ nanotubes as a function of their annealing temperature. <i>Corrosion Science</i> , 2016, 103, 215-222.	3.0	83
5	A new complex ceramic coating with carbon nanotubes, hydroxyapatite and TiO ₂ nanotubes on Ti surface for biomedical applications. <i>Ceramics International</i> , 2015, 41, 6318-6325.	2.3	72
6	Silver doped diamond-like carbon antibacterial and corrosion resistance coatings on titanium. <i>Thin Solid Films</i> , 2018, 657, 16-23.	0.8	56
7	Activity of vancomycin release from bioinspired coatings of hydroxyapatite or TiO ₂ nanotubes. <i>International Journal of Pharmaceutics</i> , 2017, 517, 296-302.	2.6	54
8	Various sized nanotubes on TiZr for antibacterial surfaces. <i>Applied Surface Science</i> , 2013, 270, 190-196.	3.1	52
9	Thermal air oxidation of Fe: rapid hematite nanowire growth and photoelectrochemical water splitting performance. <i>Electrochemistry Communications</i> , 2012, 23, 59-62.	2.3	50
10	Antibacterial polymeric coating based on polypyrrole and polyethylene glycol on a new alloy TiAlZr. <i>Progress in Organic Coatings</i> , 2012, 75, 349-355.	1.9	42
11	The two step nanotube formation on TiZr as scaffolds for cell growth. <i>Bioelectrochemistry</i> , 2014, 98, 39-45.	2.4	42
12	Understanding of electrochemical and structural changes of polypyrrole/polyethylene glycol composite films in aqueous solution. <i>Electrochimica Acta</i> , 2011, 56, 9893-9903.	2.6	40
13	Comparing performance of nanoarchitectures fabricated by Ti6Al7Nb anodizing in two kinds of electrolytes. <i>Electrochimica Acta</i> , 2010, 56, 193-202.	2.6	38
14	Flame annealing effects on self-organized TiO ₂ nanotubes. <i>Electrochimica Acta</i> , 2012, 66, 12-21.	2.6	37
15	In vitro hemocompatibility and corrosion behavior of new Zr-binary alloys in whole human blood. <i>Open Chemistry</i> , 2014, 12, 796-803.	1.0	36
16	Periodontal materials and cell biology for guided tissue and bone regeneration. <i>Annals of Anatomy</i> , 2018, 216, 164-169.	1.0	36
17	Long-term assessment of the implant titanium material-artificial saliva interface. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 1-9.	1.7	35
18	Nanochannels formed on TiZr alloy improve biological response. <i>Acta Biomaterialia</i> , 2015, 24, 370-377.	4.1	35

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19	The biocompatibility of titanium in a buffer solution: compared effects of a thin film of TiO ₂ deposited by MOCVD and of collagen deposited from a gel. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 2075-2083.	1.7	32
20	Antimicrobial activity of the surface coatings on TiAlZr implant biomaterial. <i>Journal of Bioscience and Bioengineering</i> , 2011, 112, 630-634.	1.1	30
21	Modifying the TiAlZr biomaterial surface with coating, for a better anticorrosive and antibacterial performance. <i>Applied Surface Science</i> , 2011, 257, 9164-9168.	3.1	29
22	Effect of anodization on the surface characteristics and electrochemical behaviour of zirconium in artificial saliva. <i>Materials Science and Engineering C</i> , 2016, 62, 458-466.	3.8	29
23	The Effect of Calcium-Silicate Cements on Reparative Dentinogenesis Following Direct Pulp Capping on Animal Models. <i>Molecules</i> , 2021, 26, 2725.	1.7	25
24	Monitoring TiO ₂ Nanotubes Elaboration Condition, a Way for Obtaining Various Characteristics of Nanostructures. <i>Key Engineering Materials</i> , 0, 415, 9-12.	0.4	22
25	Electrochemical behavior in simulated body fluid of TiO ₂ nanotubes on TiAlNb alloy elaborated in various anodizing electrolyte. <i>Surface and Interface Analysis</i> , 2014, 46, 186-192.	0.8	22
26	Zr/ZrO ₂ nanotube electrode for detection of heavy metal ions. <i>Electrochemistry Communications</i> , 2020, 110, 106614.	2.3	22
27	Nanopores and nanotubes ceramic oxides elaborated on titanium alloy with zirconium by changing anodization potentials. <i>Ceramics International</i> , 2018, 44, 7026-7033.	2.3	21
28	Electrospun TiO ₂ nanofibers decorated Ti substrate for biomedical application. <i>Materials Science and Engineering C</i> , 2014, 45, 56-63.	3.8	20
29	The Behaviour of Electrochemical Deposition of Phosphate Coating on CoCr Bio Alloys. <i>Key Engineering Materials</i> , 2007, 330-332, 545-548.	0.4	19
30	The Trends of TiZr Alloy Research as a Viable Alternative for Ti and Ti6 Zr Roxolid Dental Implants. <i>Coatings</i> , 2020, 10, 422.	1.2	18
31	Electrochemical and Antibacterial Performance of CoCrMo Alloy Coated with Hydroxyapatite or Silver Nanoparticles. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 3584-3591.	1.2	17
32	Elaboration and characterization of fluorohydroxyapatite and fluoroapatite sol-gel coatings on CoCrMo alloy. <i>Journal of Alloys and Compounds</i> , 2016, 665, 355-364.	2.8	17
33	Electrochemical comparison and biological performance of a new CoCrNbMoZr alloy with commercial CoCrMo alloy. <i>Materials Science and Engineering C</i> , 2016, 59, 346-355.	3.8	17
34	Thermal stability of copolymer acrylamide-maleic anhydride. <i>Journal of Applied Polymer Science</i> , 1987, 33, 2431-2437.	1.3	16
35	Electrochemical stability and surface analysis of a new alkyd paint with low content of volatile organic compounds. <i>Progress in Organic Coatings</i> , 2010, 68, 274-282.	1.9	16
36	Merit and demerit effects of silver nanoparticles in the bioperformance of an electrodeposited hydroxyapatite: nanosilver composite coating. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	16

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37	Fabrication and toxicity characterization of a hybrid material based on oxidized and aminated MWCNT loaded with carboplatin. <i>Toxicology in Vitro</i> , 2016, 37, 189-200.	1.1	16
38	Calcination condition effect on microstructure, electrochemical and hemolytic behavior of amorphous nanotubes on Ti6Al7Nb alloy. <i>Surface and Coatings Technology</i> , 2014, 252, 87-92.	2.2	15
39	Corrosion and antibacterial characterization of Ag-DLC coating on a new CoCrNbMoZr dental alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018, 69, 1403-1411.	0.8	13
40	Indoor Air Pollution with Fine Particles and Implications for Workers' Health in Dental Offices: A Brief Review. <i>Sustainability</i> , 2021, 13, 599.	1.6	13
41	TiO ₂ : From Nanotubes to Nanopores by Changing the Anodizing Voltage in Fluoride-Glycerol Electrolyte. <i>Key Engineering Materials</i> , 2009, 415, 5-8.	0.4	12
42	Performance of single layer graphene obtain by chemical vapor deposition on gold electrodes. <i>Diamond and Related Materials</i> , 2019, 98, 107510.	1.8	12
43	Passive and Bioactive Films on Implant Materials and their Efficiency in Regenerative Medicine. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 486, 110/[1152]-119/[1161].	0.4	11
44	Influence of Doping Ions on the Antibacterial Activity of Biomimetic Coating on CoCrMo Alloy. <i>Journal of Bionic Engineering</i> , 2015, 12, 583-591.	2.7	11
45	Enhance stability and in vitro cell response to a bioinspired coating on zr alloy with increasing chitosan content. <i>Journal of Bionic Engineering</i> , 2017, 14, 459-467.	2.7	11
46	Zwitterionic Cysteine Drug Coating Influence in Functionalization of Implantable Ti50Zr Alloy for Antibacterial, Biocompatibility and Stability Properties. <i>Pharmaceutics</i> , 2018, 10, 220.	2.0	11
47	Nanotubes and nano pores with chitosan construct on TiZr serving as drug reservoir. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 185, 110535.	2.5	11
48	Alkaline Phosphatase Immobilization on New Chitosan Membranes with Mg ²⁺ for Biomedical Applications. <i>Marine Drugs</i> , 2018, 16, 287.	2.2	9
49	Influence of electrospun TiO ₂ nanowires on corrosion resistance and cell response of Ti50Zr alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018, 69, 1609-1619.	0.8	9
50	Post treatments effect on TiZr nanostructures fabricated via anodizing. <i>Journal of Materials Research and Technology</i> , 2019, 8, 5802-5812.	2.6	9
51	Understanding surface and interface properties of modified Ti50Zr with nanotubes. <i>Applied Surface Science</i> , 2020, 506, 144661.	3.1	9
52	Oxidation Behavior of an Austenitic Steel (Fe, Cr and Ni), the 310 H, in a Deaerated Supercritical Water Static System. <i>Metals</i> , 2021, 11, 571.	1.0	9
53	Long-Term Corrosion Testing of Zy-4 in a LiOH Solution under High Pressure and Temperature Conditions. <i>Materials</i> , 2021, 14, 4586.	1.3	9
54	Enhancing Titanium Stability in Fusayama Saliva Using Electrochemical Elaboration of TiO ₂ Nanotubes. <i>Revista De Chimie (discontinued)</i> , 2008, 59, .	0.2	9

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55	Interaction of Mg Alloy with PLA Electrospun Nanofibers Coating in Understanding Changes of Corrosion, Wettability, and pH. <i>Nanomaterials</i> , 2022, 12, 1369.	1.9	9
56	Aspects relating to stability of modified passive stratum on TiO ₂ nanostructure. <i>Metals and Materials International</i> , 2011, 17, 321-327.	1.8	8
57	Electrochemical impedance spectroscopy in understanding the influence of ultrasonic dental scaling on the dental structureâ€™dental filling interface. <i>European Journal of Oral Sciences</i> , 2014, 122, 411-416.	0.7	8
58	One-Step Potentiostatic Electrodeposition of Polypyrrole Coatings on Zinc Coated Steel Surfaces. <i>Key Engineering Materials</i> , 2009, 415, 65-68.	0.4	7
59	Evaluation of TiO ₂ Nanotubes Changes after Ultrasonication Treatment. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 521, 84-92.	0.4	7
60	Synthesis, characterization and controlled toxicity of a novel hybrid material based on cisplatin and docetaxel. <i>Open Chemistry</i> , 2014, 12, 1008-1015.	1.0	7
61	Nanomechanical properties of zirconium anodized in a mixture of electrolytes with fluoride ions. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 112, 104084.	1.5	7
62	Surface Morphology and Histopathological Aspects of Metallic Used Cardiovascular CoCr Stents. <i>Metals</i> , 2020, 10, 1112.	1.0	7
63	A Comparative Electrochemical and Morphological Investigation on the Behavior of NiCr and CoCr Dental Alloys at Various Temperatures. <i>Metals</i> , 2021, 11, 256.	1.0	7
64	Assessing the Functional Properties of TiZr Nanotubular Structures for Biomedical Applications, through Nano-Scratch Tests and Adhesion Force Maps. <i>Molecules</i> , 2021, 26, 900.	1.7	7
65	Sustainable Coatings on Metallic Alloys as a Nowadays Challenge. <i>Sustainability</i> , 2021, 13, 10217.	1.6	7
66	Study of the thermal degradation of acrylic copolymers. <i>Journal of Applied Polymer Science</i> , 1981, 26, 4103-4116.	1.3	5
67	Electrodeposition of Polypyrrole/Poly(Styrene Sulphonate) Composite Coatings on Ti6Al7Nb Alloy. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 521, 126-139.	0.4	5
68	Processing Ti-25Ta-5Zr Bioalloy via Anodic Oxidation Procedure at High Voltage. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2011, 42, 1352-1357.	1.0	5
69	Improving Natural Biopolymeric Membranes Based on Chitosan and Collagen for Biomedical Applications Introducing Silver. <i>Journal of the Brazilian Chemical Society</i> , 2015, , .	0.6	5
70	The Electrochemical Stability in NaCl Solution of Nanotubes and Nanochannels Elaborated on a New Ti-20Zr-5Ta-2Ag Alloy. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-9.	1.5	5
71	Investigation of High Voltage Anodic Plasma (HVAP) Ag-DLC Coatings on Ti50Zr with Different Ag Amounts. <i>Coatings</i> , 2019, 9, 792.	1.2	5
72	Corrosion Behavior of Chromium Coated Zy-4 Cladding under CANDU Primary Circuit Conditions. <i>Coatings</i> , 2021, 11, 1417.	1.2	5

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73	Scanning Electronic Microscopy in Supporting Electrochemical Deposition and Characterization of Hybrid Polymeric Composite. <i>Key Engineering Materials</i> , 0, 415, 69-72.	0.4	4
74	Investigation of graphene on quartz substrate. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	4
75	Micro and Nanostructure Surface and Interface Characterization of Anodized Zr in Two Different Electrolytes. <i>Acta Chimica Slovenica</i> , 2019, 66, 686-693.	0.2	4
76	Correlations between structure and some mechanical properties of carbon fibres. <i>Materials Chemistry</i> , 1981, 6, 313-321.	0.4	3
77	Electrochemical Behavior of Ti and TiAlV in Tani-Zucchi Artificial Saliva. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 418, 271-284.	0.4	3
78	The Behavior of Ceramic Coating on Titanium Using Chemical and Electrochemical Deposition. <i>Key Engineering Materials</i> , 2007, 330-332, 577-580.	0.4	3
79	Evidences for liquid encapsulation in PMMA ultra-thin film grown by liquid injection Photo-CVD. <i>Progress in Organic Coatings</i> , 2013, 76, 1846-1850.	1.9	3
80	Electrochemical synthesis and characterization of poly(3,4-ethylenedioxythiophene) doped with sulfonated calixarenes and sulfonated calixareneâ€‘fullerene complexes. <i>Electrochimica Acta</i> , 2013, 107, 178-186.	2.6	3
81	Electrochemical stability and cell response of nanostructures elaborated on zirconium. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018, 69, 1039-1046.	0.8	3
82	A Combined Scientometric and Critical Approach in Reviewing TiZr Implant Alloys and Coating Performances. <i>Coatings</i> , 2021, 11, 392.	1.2	3
83	Cell Growth on TiAlNb Alloy as a Function of Bioactivation Method. <i>Key Engineering Materials</i> , 2008, 361-363, 1131-1134.	0.4	2
84	Stability of Bioactivated Co-Cr Alloys in Biological Environment. <i>Key Engineering Materials</i> , 2007, 361-363, 737-740.	0.4	2
85	Metallic Ion Release from Titanium Alloy and Stainless Steel Coated with Electrolytic Calcium Phosphate (HA). <i>Key Engineering Materials</i> , 2008, 361-363, 729-732.	0.4	2
86	Dynamics of Dental Pellicle Formation - <i>In Vitro</i> Analysis of Time Dependant Binding Behavior by Surface Plasmon Resonance and the Influence of Oral Therapeutics. <i>Key Engineering Materials</i> , 2009, 415, 77-80.	0.4	1
87	Polypyrrole film architectures influence on platinum nanoparticles efficiency in ethanol electrooxidation. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	1
88	Influence of Various Albumin Concentrations on the Corrosion Resistance of Zr-2.5%Nb Alloy. <i>Chemical Engineering Communications</i> , 2016, 203, 1609-1614.	1.5	1
89	Characterization of Three Surface Treatments on TiZrâ€‘Coating Properties and Corrosion Behavior. <i>Coatings</i> , 2021, 11, 615.	1.2	1
90	A Combined Strategy to Improve the Performance of Dental Alloys Using a New CoCrNbMoZr Alloy with Mn and Si Coated via an Anodic Oxidation Procedure. <i>Metals</i> , 2021, 11, 1017.	1.0	1

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91	Simultaneously Embedding Indomethacin and Electrodeposition of Polypyrrole on Various CoCr Alloys from Ionic Liquids. <i>Materials</i> , 2022, 15, 4714.	1.3	1
92	Thermal analysis of some carbon fibres. <i>Materials Chemistry and Physics</i> , 1983, 8, 163-170.	2.0	0
93	Aspects of Bioperformance of Some Polymeric and Metallic Materials Used as Support for Cell Growth and Proliferation. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 448, 61/[663]-72/[674].	0.4	0
94	The Stability of TiAlV Alloy in Simulated Bioliquids. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 448, 103/[705]-113/[715].	0.4	0
95	Aspects of correlation between structures, properties and bioapplications of TiO ₂ nanotubes. , 2009, , .		0
96	Electrochemical Impedance Spectroscopy (EIS) Investigation on Dental Hard Tissue Whitening Process Using Fluoride and Non-fluoride Carbamide Peroxide Gels. <i>APCBEE Procedia</i> , 2013, 7, 67-72.	0.5	0
97	Electrochemical Impedance Spectroscopy Investigation on the Clinical Lifetime of ProTaper Rotary File System. <i>BioMed Research International</i> , 2014, 2014, 1-10.	0.9	0
98	Effects of PEG on the stability and electrochemical properties of PEDOT: PSS films obtained by spin coating. , 2014, , .		0
99	Investigation of Ag Oxidation and Ion Adsorption on Small Intestinal Submucosa in Simulated Body Fluid through Simultaneous Electrochemical and SPR Measurements. <i>Advanced Materials Research</i> , 0, 1119, 438-443.	0.3	0
100	The Hybridization of Multi-Walled Carbon Nanotubes with Various Drugs. <i>Key Engineering Materials</i> , 2015, 638, 85-90.	0.4	0
101	The influence of oxygen amount in oral cavity media on the corrosion behavior of nanostructures formed on anodized Zr. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018, 69, 1713-1719.	0.8	0
102	Processing Metallic Biomaterials for a Better Cell Response. , 2012, , 259-280.		0
103	Polymeric Composites Containing Carbon Nanotubes and Polypyrrole for Biomedical Applications. <i>Advanced Science Letters</i> , 2012, 18, 25-35.	0.2	0
104	Micro and Nanostructure Surface and Interface Characterization of Anodized Zr in Two Different Electrolytes. <i>Acta Chimica Slovenica</i> , 2019, 66, 686-693.	0.2	0