

Ioana Demetrescu

List of Publications by Year in descending order

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104
papers

1,760
citations

304368

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104
all docs

104
docs citations

104
times ranked

2021
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Simultaneously Embedding Indomethacin and Electrodeposition of Polypyrrole on Various CoCr Alloys from Ionic Liquids. <i>Materials</i> , 2022, 15, 4714.	1.3	1
3	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
4	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
5	A Combined Scientometric and Critical Approach in Reviewing TiZr Implant Alloys and Coating Performances. <i>Coatings</i> , 2021, 11, 392.	1.2	3
6	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
7	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
8	Characterization of Three Surface Treatments on TiZr Coating Properties and Corrosion Behavior. <i>Coatings</i> , 2021, 11, 615.	1.2	1
9	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
10	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
11	Sustainable Coatings on Metallic Alloys as a Nowadays Challenge. <i>Sustainability</i> , 2021, 13, 10217.	1.6	7
12	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
13	Corrosion Behavior of Chromium Coated Zy-4 Cladding under CANDU Primary Circuit Conditions. <i>Coatings</i> , 2021, 11, 1417.	1.2	5
14	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
15	Zr/ZrO ₂ nanotube electrode for detection of heavy metal ions. <i>Electrochemistry Communications</i> , 2020, 110, 106614.	2.3	22
16	Understanding surface and interface properties of modified Ti50Zr with nanotubes. <i>Applied Surface Science</i> , 2020, 506, 144661.	3.1	9
17	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
18	Surface Morphology and Histopathological Aspects of Metallic Used Cardiovascular CoCr Stents. <i>Metals</i> , 2020, 10, 1112.	1.0	7

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19	The Trends of TiZr Alloy Research as a Viable Alternative for Ti and Ti16 Zr Roxolid Dental Implants. Coatings, 2020, 10, 422.	1.2	18
20	Performance of single layer graphene obtain by chemical vapor deposition on gold electrodes. Diamond and Related Materials, 2019, 98, 107510.	1.8	12
21	Post treatments effect on TiZr nanostructures fabricated via anodizing. Journal of Materials Research and Technology, 2019, 8, 5802-5812.	2.6	9
22	Investigation of graphene on quartz substrate. AIP Conference Proceedings, 2019, , .	0.3	4
23	Investigation of High Voltage Anodic Plasma (HVAP) Ag-DLC Coatings on Ti50Zr with Different Ag Amounts. Coatings, 2019, 9, 792.	1.2	5
24	Micro and Nanostructure Surface and Interface Characterization of Anodized Zr in Two Different Electrolytes. Acta Chimica Slovenica, 2019, 66, 686-693.	0.2	4
25	Micro and Nanostructure Surface and Interface Characterization of Anodized Zr in Two Different Electrolytes. Acta Chimica Slovenica, 2019, 66, 686-693.	0.2	0
26	Electrochemical stability and cell response of nanostructures elaborated on zirconium. Materials and Corrosion - Werkstoffe Und Korrosion, 2018, 69, 1039-1046.	0.8	3
27	Nanopores and nanotubes ceramic oxides elaborated on titanium alloy with zirconium by changing anodization potentials. Ceramics International, 2018, 44, 7026-7033.	2.3	21
28	Periodontal materials and cell biology for guided tissue and bone regeneration. Annals of Anatomy, 2018, 216, 164-169.	1.0	36
29	Silver doped diamond-like carbon antibacterial and corrosion resistance coatings on titanium. Thin Solid Films, 2018, 657, 16-23.	0.8	56
30	Zwitterionic Cysteine Drug Coating Influence in Functionalization of Implantable Ti50Zr Alloy for Antibacterial, Biocompatibility and Stability Properties. Pharmaceutics, 2018, 10, 220.	2.0	11
31	Alkaline Phosphatase Immobilization on New Chitosan Membranes with Mg ²⁺ for Biomedical Applications. Marine Drugs, 2018, 16, 287.	2.2	9
32	Corrosion and antibacterial characterization of Ag-€DLC coating on a new CoCrNbMoZr dental alloy. Materials and Corrosion - Werkstoffe Und Korrosion, 2018, 69, 1403-1411.	0.8	13
33	Influence of electrospun TiO ₂ nanowires on corrosion resistance and cell response of Ti50Zr alloy. Materials and Corrosion - Werkstoffe Und Korrosion, 2018, 69, 1609-1619.	0.8	9
34	The influence of oxygen amount in oral cavity media on the corrosion behavior of nanostructures formed on anodized Zr. Materials and Corrosion - Werkstoffe Und Korrosion, 2018, 69, 1713-1719.	0.8	0
35	Activity of vancomycin release from bioinspired coatings of hydroxyapatite or TiO ₂ nanotubes. International Journal of Pharmaceutics, 2017, 517, 296-302.	2.6	54
36	Enhance stability and in vitro cell response to a bioinspired coating on zr alloy with increasing chitosan content. Journal of Bionic Engineering, 2017, 14, 459-467.	2.7	11

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37	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
38	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
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	The Hybridization of Multi-Walled Carbon Nanotubes with Various Drugs. <i>Key Engineering Materials</i> , 2015, 638, 85-90.	0.4	0
47	Nanochannels formed on TiZr alloy improve biological response. <i>Acta Biomaterialia</i> , 2015, 24, 370-377.	4.1	35
48	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
49	Polypyrrole film architectures influence on platinum nanoparticles efficiency in ethanol electrooxidation. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	1
50	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
51	Effects of PEG on the stability and electrochemical properties of PEDOT: PSS films obtained by spin coating. , 2014, , .		0
52	Electrochemical impedance spectroscopy in understanding the influence of ultrasonic dental scaling on the dental structure-dental filling interface. <i>European Journal of Oral Sciences</i> , 2014, 122, 411-416.	0.7	8
53	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
54	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

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55	Electrospun TiO ₂ nanofibers decorated Ti substrate for biomedical application. <i>Materials Science and Engineering C</i> , 2014, 45, 56-63.	3.8	20
56	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
57	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
58	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
59	The two step nanotube formation on TiZr as scaffolds for cell growth. <i>Bioelectrochemistry</i> , 2014, 98, 39-45.	2.4	42
60	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
61	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
62	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
63	Electrochemical synthesis and characterization of poly(3,4-ethylenedioxythiophene) doped with sulfonated calixarenes and sulfonated calixarene- <i>fullerene</i> complexes. <i>Electrochimica Acta</i> , 2013, 107, 178-186.	2.6	3
64	Various sized nanotubes on TiZr for antibacterial surfaces. <i>Applied Surface Science</i> , 2013, 270, 190-196.	3.1	52
65	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
66	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
67	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
68	Flame annealing effects on self-organized TiO ₂ nanotubes. <i>Electrochimica Acta</i> , 2012, 66, 12-21.	2.6	37
69	Processing Metallic Biomaterials for a Better Cell Response. , 2012, , 259-280.		0
70	Polymeric Composites Containing Carbon Nanotubes and Polypyrrole for Biomedical Applications. <i>Advanced Science Letters</i> , 2012, 18, 25-35.	0.2	0
71	Characterisation and corrosion resistance of the electrodeposited hydroxyapatite and bovine serum albumin/hydroxyapatite films on Ti-6Al-4V-Zr alloy surface. <i>Corrosion Science</i> , 2011, 53, 992-999.	3.0	91
72	Antimicrobial activity of the surface coatings on TiAlZr implant biomaterial. <i>Journal of Bioscience and Bioengineering</i> , 2011, 112, 630-634.	1.1	30

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73	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
74	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
75	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
76	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
77	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
78	Comparing performance of nanoarchitectures fabricated by Ti6Al7Nb anodizing in two kinds of electrolytes. <i>Electrochimica Acta</i> , 2010, 56, 193-202.	2.6	38
79	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
80	Evaluation of TiO ₂ Nanotubes Changes after Ultrasonication Treatment. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 521, 84-92.	0.4	7
81	Aspects of correlation between structures, properties and bioapplications of TiO ₂ nanotubes. , 2009, , .		0
82	One-Step Potentiostatic Electrodeposition of Polypyrrole Coatings on Zinc Coated Steel Surfaces. <i>Key Engineering Materials</i> , 2009, 415, 65-68.	0.4	7
83	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
84	TiO ₂ : From Nanotubes to Nanopores by Changing the Anodizing Voltage in Floride-Glycerol Electrolyte. <i>Key Engineering Materials</i> , 2009, 415, 5-8.	0.4	12
85	Cell Growth on TiAlNb Alloy as a Function of Bioactivation Method. <i>Key Engineering Materials</i> , 2008, 361-363, 1131-1134.	0.4	2
86	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
87	Long-term assessment of the implant titanium material's artificial saliva interface. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 1-9.	1.7	35
88	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
89	Enhancing Titanium Stability in Fusayama Saliva Using Electrochemical Elaboration of TiO ₂ Nanotubes. <i>Revista De Chimie (discontinued)</i> , 2008, 59, .	0.2	9
90	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

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91	Stability of Bioactivated Co-Cr Alloys in Biological Environment. Key Engineering Materials, 2007, 361-363, 737-740.	0.4	2
92	The Behavior of Ceramic Coating on Titanium Using Chemical and Electrochemical Deposition. Key Engineering Materials, 2007, 330-332, 577-580.	0.4	3
93	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. Journal of Materials Science: Materials in Medicine, 2007, 18, 2075-2083.	1.7	32
94	Aspects of Bioperformance of Some Polymeric and Metallic Materials Used as Support for Cell Growth and Proliferation. Molecular Crystals and Liquid Crystals, 2006, 448, 61/[663]-72/[674].	0.4	0
95	The Stability of TiAlV Alloy in Simulated Bioliquids. Molecular Crystals and Liquid Crystals, 2006, 448, 103/[705]-113/[715].	0.4	0
96	Electrochemical Behavior of Ti and TiAlV in Tani-Zucchi Artificial Saliva. Molecular Crystals and Liquid Crystals, 2004, 418, 271-284.	0.4	3
97	Corrosion susceptibility of implant materials Ti-5Al-4V and Ti-6Al-4Fe in artificial extra-cellular fluids. Electrochimica Acta, 2004, 49, 2113-2121.	2.6	119
98	Thermal stability of copolymer acrylamide-maleic anhydride. Journal of Applied Polymer Science, 1987, 33, 2431-2437.	1.3	16
99	Thermal analysis of some carbon fibres. Materials Chemistry and Physics, 1983, 8, 163-170.	2.0	0
100	Study of the thermal degradation of acrylic copolymers. Journal of Applied Polymer Science, 1981, 26, 4103-4116.	1.3	5
101	Correlations between structure and some mechanical properties of carbon fibres. Materials Chemistry, 1981, 6, 313-321.	0.4	3
102	Scanning Electronic Microscopy in Supporting Electrochemical Deposition and Characterization of Hybrid Polymeric Composite. Key Engineering Materials, 0, 415, 69-72.	0.4	4
103	Monitoring TiO ₂ Nanotubes Elaboration Condition, a Way for Obtaining Various Characteristics of Nanostructures. Key Engineering Materials, 0, 415, 9-12.	0.4	22
104	Investigation of Ag Oxidation and Ion Adsorption on Small Intestinal Submucosa in Simulated Body Fluid through Simultaneous Electrochemical and SPR Measurements. Advanced Materials Research, 0, 1119, 438-443.	0.3	0