

Hamid Reza Bakhsheshi Rad

List of Publications by Year in descending order

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146
papers

5,497
citations

61857

43
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all docs

146
docs citations

146
times ranked

3940
citing authors

#	ARTICLE	IF	CITATIONS
1	Relationship between the corrosion behavior and the thermal characteristics and microstructure of Mg–0.5Ca–xZn alloys. <i>Corrosion Science</i> , 2012, 64, 184-197.	3.0	235
2	Microstructure analysis and corrosion behavior of biodegradable Mg–Ca implant alloys. <i>Materials & Design</i> , 2012, 33, 88-97.	5.1	213
3	Antioxidant, Antimicrobial and Antiviral Properties of Herbal Materials. <i>Antioxidants</i> , 2020, 9, 1309.	2.2	199
4	Fabrication of biodegradable Zn-Al-Mg alloy: Mechanical properties, corrosion behavior, cytotoxicity and antibacterial activities. <i>Materials Science and Engineering C</i> , 2017, 73, 215-219.	3.8	133
5	Development of the PVA/CS nanofibers containing silk protein sericin as a wound dressing: In vitro and in vivo assessment. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 513-521.	3.6	122
6	Hyaluronic Acid (HA)-Based Silk Fibroin/Zinc Oxide Core–Shell Electrospun Dressing for Burn Wound Management. <i>Macromolecular Bioscience</i> , 2020, 20, e1900328.	2.1	110
7	Electrospun Nano-Fibers for Biomedical and Tissue Engineering Applications: A Comprehensive Review. <i>Materials</i> , 2020, 13, 2153.	1.3	108
8	In vitro and in vivo evaluation of chitosan-alginate/gentamicin wound dressing nanofibrous with high antibacterial performance. <i>Polymer Testing</i> , 2020, 82, 106298.	2.3	107
9	In vitro degradation behavior, antibacterial activity and cytotoxicity of TiO ₂ -MAO/ZnHA composite coating on Mg alloy for orthopedic implants. <i>Surface and Coatings Technology</i> , 2018, 334, 450-460.	2.2	101
10	Synthesis and in vitro degradation evaluation of the nano-HA/MgF ₂ and DCPD/MgF ₂ composite coating on biodegradable Mg–Ca–Zn alloy. <i>Surface and Coatings Technology</i> , 2013, 222, 79-89.	2.2	96
11	In-vitro corrosion inhibition mechanism of fluorine-doped hydroxyapatite and brushite coated Mg–Ca alloys for biomedical applications. <i>Ceramics International</i> , 2014, 40, 7971-7982.	2.3	87
12	Deposition of nanostructured fluorine-doped hydroxyapatite–polycaprolactone duplex coating to enhance the mechanical properties and corrosion resistance of Mg alloy for biomedical applications. <i>Materials Science and Engineering C</i> , 2016, 60, 526-537.	3.8	83
13	In-vitro biocompatibility, bioactivity, and mechanical strength of PMMA-PCL polymer containing fluorapatite and graphene oxide bone cements. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 82, 257-267.	1.5	83
14	In-situ thermal analysis and macroscopical characterization of Mg–xCa and Mg–0.5Ca–xZn alloy systems. <i>Thermochimica Acta</i> , 2012, 527, 180-189.	1.2	80
15	Co-incorporation of graphene oxide/silver nanoparticle into poly-L-lactic acid fibrous: A route toward the development of cytocompatible and antibacterial coating layer on magnesium implants. <i>Materials Science and Engineering C</i> , 2020, 111, 110812.	3.8	78
16	Antibacterial activity and corrosion resistance of Ta ₂ O ₅ thin film and electrospun PCL/MgO-Ag nanofiber coatings on biodegradable Mg alloy implants. <i>Ceramics International</i> , 2019, 45, 11883-11892.	2.3	73
17	Coating biodegradable magnesium alloys with electrospun poly-L-lactic acid–kermanite–doxycycline nanofibers for enhanced biocompatibility, antibacterial activity, and corrosion resistance. <i>Surface and Coatings Technology</i> , 2019, 377, 124898.	2.2	71
18	Carbon Nanotubes (CNTs)-Reinforced Magnesium-Based Matrix Composites: A Comprehensive Review. <i>Materials</i> , 2020, 13, 4421.	1.3	70

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19	Structure, corrosion behavior, and antibacterial properties of nano-silica/graphene oxide coating on biodegradable magnesium alloy for biomedical applications. <i>Vacuum</i> , 2016, 131, 106-110.	1.6	69
20	Deposition of duplex MAO layer/nanostructured titanium dioxide composite coatings on Mg-1%Ca alloy using a combined technique of air plasma spraying and micro arc oxidation. <i>Journal of Alloys and Compounds</i> , 2015, 649, 591-605.	2.8	65
21	Preparation and characterization of NiCrAlY/nano-YSZ/PCL composite coatings obtained by combination of atmospheric plasma spraying and dip coating on Mg-Ca alloy. <i>Journal of Alloys and Compounds</i> , 2016, 658, 440-452.	2.8	65
22	Recent Advances on Bioprinted Gelatin Methacrylate-Based Hydrogels for Tissue Repair. <i>Tissue Engineering - Part A</i> , 2021, 27, 679-702.	1.6	65
23	Fabrication and characterization of hydrophobic microarc oxidation/poly-lactic acid duplex coating on biodegradable Mg-Ca alloy for corrosion protection. <i>Vacuum</i> , 2016, 125, 185-188.	1.6	61
24	Influence of Silver nanoparticles addition on the phase transformation, mechanical properties and corrosion behaviour of Cu-Al-Ni shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2014, 612, 471-478.	2.8	60
25	Magnesium-graphene nano-platelet composites: Corrosion behavior, mechanical and biological properties. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153379.	2.8	60
26	Modification of surface hardness, wear resistance and corrosion resistance of cold spray Al coated AZ31B Mg alloy using cold spray double layered Ta/Ti coating in 3.5 wt % NaCl solution. <i>Corrosion Science</i> , 2020, 176, 109029.	3.0	60
27	Preparation and corrosion resistance of a nanocomposite plasma electrolytic oxidation coating on Mg-1%Ca alloy formed in aluminate electrolyte containing titania nano-additives. <i>Journal of Alloys and Compounds</i> , 2016, 688, 841-857.	2.8	59
28	Antibacterial activities and corrosion behavior of novel PEO/nanostructured ZrO ₂ coating on Mg alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 1571-1581.	1.7	58
29	Development of PMMA-Mon-CNT bone cement with superior mechanical properties and favorable biological properties for use in bone-defect treatment. <i>Materials Letters</i> , 2019, 240, 9-12.	1.3	56
30	Overview of magnesium-ceramic composites: mechanical, corrosion and biological properties. <i>Journal of Materials Research and Technology</i> , 2021, 15, 6034-6066.	2.6	56
31	Bi-layer nano-TiO ₂ /FHA composite coatings on Mg-Zn-Ce alloy prepared by combined physical vapour deposition and electrochemical deposition methods. <i>Vacuum</i> , 2014, 110, 127-135.	1.6	52
32	Three-Dimensional Printing Constructs Based on the Chitosan for Tissue Regeneration: State of the Art, Developing Directions and Prospect Trends. <i>Materials</i> , 2020, 13, 2663.	1.3	52
33	Polymethyl Methacrylate-Based Bone Cements Containing Carbon Nanotubes and Graphene Oxide: An Overview of Physical, Mechanical, and Biological Properties. <i>Polymers</i> , 2020, 12, 1469.	2.0	52
34	Magnesium-zinc scaffold loaded with tetracycline for tissue engineering application: In vitro cell biology and antibacterial activity assessment. <i>Materials Science and Engineering C</i> , 2019, 102, 53-65.	3.8	51
35	Effect of fluoride treatment on corrosion behavior of Mg-Ca binary alloy for implant application. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 699-710.	1.7	50
36	Recent Trends in Three-Dimensional Biopinks Based on Alginate for Biomedical Applications. <i>Materials</i> , 2020, 13, 3980.	1.3	49

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37	Fabrication and corrosion behavior of Si/HA nano-composite coatings on biodegradable Mg-Zn-Mn-Ca alloy. <i>Surface and Coatings Technology</i> , 2014, 258, 1090-1099.	2.2	48
38	Modelling corrosion rate of biodegradable magnesium-based alloys: The case study of Mg-Zn-RE-xCa (x=0, 0.5, 1.5, 3 and 6wt%) alloys. <i>Journal of Alloys and Compounds</i> , 2016, 687, 630-642.	2.8	48
39	Drug delivery and cytocompatibility of ciprofloxacin loaded gelatin nanofibers-coated Mg alloy. <i>Materials Letters</i> , 2017, 207, 179-182.	1.3	48
40	3D printed microneedles for transdermal drug delivery: A brief review of two decades. <i>International Journal of Pharmaceutics</i> , 2021, 597, 120301.	2.6	48
41	Recent Advances in Chemically-Modified and Hybrid Carrageenan-Based Platforms for Drug Delivery, Wound Healing, and Tissue Engineering. <i>Polymers</i> , 2021, 13, 1744.	2.0	48
42	A Comprehensive Review on Surface Modifications of Biodegradable Magnesium-Based Implant Alloy: Polymer Coatings Opportunities and Challenges. <i>Coatings</i> , 2021, 11, 747.	1.2	48
43	Corrosion and bioactivity performance of graphene oxide coating on Ti Nb shape memory alloys in simulated body fluid. <i>Materials Science and Engineering C</i> , 2016, 68, 687-694.	3.8	47
44	The role of bismuth on the microstructure and corrosion behavior of ternary Mg-1.2Ca-xBi alloys for biomedical applications. <i>Journal of Alloys and Compounds</i> , 2015, 640, 335-346.	2.8	46
45	Synthesis of a novel nanostructured zinc oxide/baghdadite coating on Mg alloy for biomedical application: In-vitro degradation behavior and antibacterial activities. <i>Ceramics International</i> , 2017, 43, 14842-14850.	2.3	46
46	Novel nanostructured baghdadite-vancomycin scaffolds: In-vitro drug release, antibacterial activity and biocompatibility. <i>Materials Letters</i> , 2017, 209, 369-372.	1.3	44
47	Antibacterial activity and in vivo wound healing evaluation of polycaprolactone-gelatin methacryloyl-cephalexin electrospun nanofibrous. <i>Materials Letters</i> , 2019, 256, 126618.	1.3	44
48	Correlation of microstructural and corrosion characteristics of quaternary shape memory alloys Cu-Al-Ni-X (X=Mn or Ti). <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 1158-1170.	1.7	43
49	Novel bi-layered nanostructured SiO ₂ /Ag-FHAp coating on biodegradable magnesium alloy for biomedical applications. <i>Ceramics International</i> , 2016, 42, 11941-11950.	2.3	42
50	Improved antibacterial properties of an Mg-Zn-Ca alloy coated with chitosan nanofibers incorporating silver sulfadiazine multiwall carbon nanotubes for bone implants. <i>Polymers for Advanced Technologies</i> , 2019, 30, 1333-1339.	1.6	42
51	A new multifunctional monticellite-ciprofloxacin scaffold: Preparation, bioactivity, biocompatibility, and antibacterial properties. <i>Materials Chemistry and Physics</i> , 2019, 222, 118-131.	2.0	42
52	Microstructure, mechanical properties, and in-vitro biocompatibility of nano- NiTi reinforced Mg-3Zn-0.5Ag alloy: Prepared by mechanical alloying for implant applications. <i>Composites Part B: Engineering</i> , 2020, 190, 107947.	5.9	41
53	Effect of mechanical alloying on the phase evolution, microstructure and bio-corrosion properties of a Mg/HA/TiO ₂ /MgO nanocomposite. <i>Ceramics International</i> , 2014, 40, 16743-16759.	2.3	40
54	Drug release, cytocompatibility, bioactivity, and antibacterial activity of doxycycline loaded Mg-Ca-TiO ₂ composite scaffold. <i>Materials and Design</i> , 2018, 139, 212-221.	3.3	40

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55	Microstructural characterization and corrosion resistance evaluation of nanostructured Al and Al/AlCr coated Mg-Zn-Ce-La alloy. <i>Journal of Alloys and Compounds</i> , 2014, 615, 657-671.	2.8	39
56	In-vitro degradation behavior of Mg alloy coated by fluorine doped hydroxyapatite and calcium deficient hydroxyapatite. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 2516-2528.	1.7	39
57	Thermal Characteristics, Mechanical Properties, In Vitro Degradation and Cytotoxicity of Novel Biodegradable Zn-Al-Mg and Zn-Al-Mg-xBi Alloys. <i>Acta Metallurgica Sinica (English Letters)</i> , 2017, 30, 201-211.	1.5	39
58	Graphene Family Nanomaterial Reinforced Magnesium-Based Matrix Composites for Biomedical Application: A Comprehensive Review. <i>Metals</i> , 2020, 10, 1002.	1.0	39
59	Synthesis and in-vitro performance of nanostructured monticellite coating on magnesium alloy for biomedical applications. <i>Journal of Alloys and Compounds</i> , 2019, 773, 180-193.	2.8	38
60	Zinc-doped hydroxyapatite-zeolite/polycaprolactone composites coating on magnesium substrate for enhancing in-vitro corrosion and antibacterial performance. <i>Transactions of Nonferrous Metals Society of China</i> , 2020, 30, 123-133.	1.7	36
61	Poly(methyl methacrylate) bone cement, its rise, growth, downfall and future. <i>Polymer International</i> , 2021, 70, 1182-1201.	1.6	36
62	Corrosion resistance investigation of nanostructured Si- and Si/TiO ₂ -coated Mg alloy in 3.5% NaCl solution. <i>Vacuum</i> , 2014, 108, 61-65.	1.6	35
63	Fabrication and properties of triplex NiCrAlY/nano Al ₂ O ₃ ·13%TiO ₂ /nano TiO ₂ coatings on a magnesium alloy by atmospheric plasma spraying method. <i>Journal of Alloys and Compounds</i> , 2015, 645, 450-466.	2.8	35
64	Corrosion and mechanical performance of double-layered nano-Al/PCL coating on Mg-Ca-Bi alloy. <i>Vacuum</i> , 2015, 119, 95-98.	1.6	33
65	Improvement of thermally grown oxide layer in thermal barrier coating systems with nano alumina as third layer. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 1322-1333.	1.7	32
66	Investigation of three steps of hot corrosion process in Y ₂ O ₃ stabilized ZrO ₂ coatings including nano zones. <i>Journal of Rare Earths</i> , 2014, 32, 989-1002.	2.5	32
67	Synthesis and biodegradation evaluation of nano-Si and nano-Si/TiO ₂ coatings on biodegradable Mg-Ca alloy in simulated body fluid. <i>Ceramics International</i> , 2014, 40, 14009-14018.	2.3	32
68	Microstructure, mechanical properties and corrosion behavior of Al-Si-Cu-Zn-X (X=Bi, Sb, Sr) die cast alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2016, 26, 28-38.	1.7	32
69	Enhanced corrosion resistance and surface bioactivity of AZ31B Mg alloy by high pressure cold sprayed monolayer Ti and bilayer Ta/Ti coatings in simulated body fluid. <i>Materials Chemistry and Physics</i> , 2020, 256, 123627.	2.0	32
70	Synthesis and corrosion behavior of a hybrid bioceramic-biopolymer coating on biodegradable Mg alloy for orthopaedic implants. <i>Journal of Alloys and Compounds</i> , 2015, 648, 1067-1071.	2.8	31
71	Microstructural characterisation of air plasma sprayed nanostructure ceramic coatings on Mg-1%Ca alloys (bonded by NiCoCrAlYTa alloy). <i>Ceramics International</i> , 2016, 42, 357-371.	2.3	31
72	Antimicrobial Synthetic and Natural Polymeric Nanofibers as Wound Dressing: A Review. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	30

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73	Nano-hydroxyapatite reinforced zeolite ZSM composites: A comprehensive study on the structural and in vitro biological properties. <i>Ceramics International</i> , 2016, 42, 7175-7182.	2.3	29
74	In Vitro Degradation, Antibacterial Activity and Cytotoxicity of Mg-3Zn-xAg Nanocomposites Synthesized by Mechanical Alloying for Implant Applications. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 1441-1455.	1.2	29
75	Effect of Multi-Step Tempering on Retained Austenite and Mechanical Properties of Low Alloy Steel. <i>Journal of Iron and Steel Research International</i> , 2011, 18, 49-56.	1.4	28
76	Microstructure, In Vitro Corrosion Behavior and Cytotoxicity of Biodegradable Mg-Ca-Zn and Mg-Ca-Zn-Bi Alloys. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 653-666.	1.2	28
77	Fabrication and characterisation of novel ZnO/MWCNT duplex coating deposited on Mg alloy by PVD coupled with dip-coating techniques. <i>Journal of Alloys and Compounds</i> , 2017, 728, 159-168.	2.8	27
78	Synthesis and in-vitro characterization of biodegradable porous magnesium-based scaffolds containing silver for bone tissue engineering. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 984-996.	1.7	27
79	Enhancement of corrosion resistance and mechanical properties of Mg ^{1.2} Ca ² Bi via a hybrid silicon-biopolymer coating system. <i>Surface and Coatings Technology</i> , 2016, 301, 133-139.	2.2	25
80	In vitro corrosion behavior, bioactivity, and antibacterial performance of the silver-doped zinc oxide coating on magnesium alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2017, 68, 1228-1236.	0.8	25
81	Apatite-forming ability, cytocompatibility, and mechanical properties enhancement of poly methyl methacrylate-based bone cements by incorporating of baghdadite nanoparticles. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 2006-2019.	1.1	25
82	CNT and rGO reinforced PMMA based bone cement for fixation of load bearing implants: Mechanical property and biological response. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 116, 104320.	1.5	25
83	3D Printing of Hydrogel-Based Nanocomposites: A Comprehensive Review on the Technology Description, Properties, and Applications. <i>Advanced Engineering Materials</i> , 2021, 23, 2100477.	1.6	25
84	Microstructural, mechanical properties and corrosion behavior of plasma sprayed NiCrAlY/nano-YSZ duplex coating on Mg ^{1.2} Ca ³ Zn alloy. <i>Ceramics International</i> , 2015, 41, 15272-15277.	2.3	24
85	Bioactivity, in-vitro corrosion behavior, and antibacterial activity of silver-zeolites doped hydroxyapatite coating on magnesium alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 1553-1562.	1.7	24
86	Friction Stir Welding/Processing of Mg-Based Alloys: A Critical Review on Advancements and Challenges. <i>Materials</i> , 2021, 14, 6726.	1.3	24
87	A Review on Antibacterial Biomaterials in Biomedical Applications: From Materials Perspective to Bioinks Design. <i>Polymers</i> , 2022, 14, 2238.	2.0	24
88	Effect of Y ₂ O ₃ stabilized ZrO ₂ coating with tri-model structure on bi-layered thermally grown oxide evolution in nano thermal barrier coating systems at elevated temperatures. <i>Journal of Rare Earths</i> , 2014, 32, 57-77.	2.5	23
89	Microstructural Characteristics and Strengthening Mechanisms of Ferritic-Martensitic Dual-Phase Steels: A Review. <i>Metals</i> , 2022, 12, 101.	1.0	23
90	Synthesis and kinetic study of (Mo,W)Si ₂ -WSi ₂ nanocomposite by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2012, 540, 248-259.	2.8	22

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91	In vitro and in vivo evaluation of silk fibroin-hardystonite-gentamicin nanofibrous scaffold for tissue engineering applications. <i>Polymer Testing</i> , 2020, 91, 106698.	2.3	22
92	Recent advances on akermanite calcium-silicate ceramic for biomedical applications. <i>International Journal of Applied Ceramic Technology</i> , 2021, 18, 1901-1920.	1.1	22
93	A study on the corrosion behavior and biological properties of polycaprolactone/ bredigite composite coating on biodegradable Mg-Zn-Ca-GNP nanocomposite. <i>Progress in Organic Coatings</i> , 2020, 147, 105822.	1.9	21
94	Effect of zeolite on the corrosion behavior, biocompatibility and antibacterial activity of porous magnesium/zeolite composite scaffolds. <i>Materials Technology</i> , 2019, 34, 258-269.	1.5	19
95	A Brief Review on Additive Manufacturing of Polymeric Composites and Nanocomposites. <i>Micromachines</i> , 2021, 12, 704.	1.4	19
96	Synthesis and characterization of MoSi ₂ -Mo ₅ Si ₃ nanocomposite by mechanical alloying and heat treatment. <i>International Journal of Refractory Metals and Hard Materials</i> , 2012, 31, 236-241.	1.7	18
97	Investigation of Corrosion Protection Performance of Multiphase PEO (Mg ₂ SiO ₄ , MgO, MgAl ₂ O ₄) Coatings on Mg Alloy Formed in Aluminate-Silicate- based Mixture Electrolyte. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2018, 54, 425-441.	0.3	18
98	Thermal characteristics and corrosion behaviour of Mg-xZn alloys for biomedical applications. <i>Bulletin of Materials Science</i> , 2013, 36, 1103-1113.	0.8	17
99	Effect of Electrodeposition Parameters on the Microstructure and Corrosion Behavior of Zn-DCPD Coatings on Biodegradable Mg-Ca-Zn Alloy. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 1054-1064.	1.1	17
100	Microstructure development, phase reaction characteristics and properties of quaternary Zn-0.5Al-0.5Mg-xBi hot dipped coating alloy under slow and fast cooling rates. <i>Surface and Coatings Technology</i> , 2017, 315, 112-122.	2.2	17
101	Mechanical properties, corrosion behavior and biocompatibility of orthopedic pure titanium-magnesium alloy screw prepared by friction welding. <i>Transactions of Nonferrous Metals Society of China</i> , 2020, 30, 2952-2966.	1.7	17
102	Fabrication, degradation behavior and cytotoxicity of nanostructured hardystonite and titania/hardystonite coatings on Mg alloys. <i>Vacuum</i> , 2016, 129, 9-12.	1.6	15
103	Characterization and biological properties of nanostructured clinoenstatite scaffolds for bone tissue engineering applications. <i>Materials Chemistry and Physics</i> , 2021, 259, 123969.	2.0	15
104	Reduced graphene oxide (RGO) reinforced Mg biocomposites for use as orthopedic applications: Mechanical properties, cytocompatibility and antibacterial activity. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 3612-3627.	5.5	15
105	Antibacterial activities of zeolite/silver-graphene oxide nanocomposite in bone implants. <i>Materials Technology</i> , 2020, , 1-10.	1.5	14
106	Electrophoretic deposition of bioglass/graphene oxide composite on Ti-alloy implants for improved antibacterial and cytocompatible properties. <i>Materials Technology</i> , 2020, 35, 69-74.	1.5	13
107	Effect of Substrate's Heat Treatment on Microstructure and Mechanical Properties TLP Bonding of Dissimilar X-45/FSX-414 Cobalt Based Superalloys. <i>Metals and Materials International</i> , 2020, , 1.	1.8	13
108	Comprehensive microstructural investigation during dissimilar transient liquid phase bonding cobalt-based superalloys by BNi-9 amorphous interlayer foil. <i>Journal of Materials Research and Technology</i> , 2021, 13, 2144-2160.	2.6	13

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109	Improvement of Corrosion Resistance of Binary Mg-Ca Alloys Using Duplex Aluminum-Chromium Coatings. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 2614-2627.	1.2	12
110	Clinoenstatite/Tantalum Coating for Enhancement of Biocompatibility and Corrosion Protection of Mg Alloy. <i>Journal of Functional Biomaterials</i> , 2020, 11, 26.	1.8	12
111	Improved Bacteriostatic and Anticorrosion Effects of Polycaprolactone/Chitosan Coated Magnesium via Incorporation of Zinc Oxide. <i>Materials</i> , 2021, 14, 1930.	1.3	12
112	Biocompatibility and bioactivity of hardystonite-based nanocomposite scaffold for tissue engineering applications. <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 035011.	0.6	12
113	The Effect of Co-Encapsulated GO-Cu Nanofillers on Mechanical Properties, Cell Response, and Antibacterial Activities of Mg-Zn Composite. <i>Metals</i> , 2022, 12, 207.	1.0	12
114	Effect of graphene oxide on the corrosion, mechanical and biological properties of Mg-based nanocomposite. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022, 29, 305-319.	2.4	11
115	MgO-incorporated carbon nanotubes-reinforced Mg-based composites to improve mechanical, corrosion, and biological properties targeting biomedical applications. <i>Journal of Materials Research and Technology</i> , 2022, 20, 976-990.	2.6	11
116	Novel synthesis of nickel ferrite magnetic nanoparticles by an in-liquid plasma. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 10424-10442.	1.1	10
117	In vitro bioactivity and corrosion of PLGA/hardystonite composite-coated magnesium-based nanocomposite for implant applications. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021, 28, 168-178.	2.4	9
118	Synthesis and Electrochemical Properties of TiNb ₂ O ₇ and Ti ₂ Nb ₁₀ O ₂₉ Anodes under Various Annealing Atmospheres. <i>Metals</i> , 2021, 11, 983.	1.0	9
119	In Vitro Corrosion Behavior and Cytotoxicity of Polycaprolactone-Åkermanite-Coated Friction-Welded Commercially Pure Ti/AZ31 for Orthopedic Applications. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 6053-6065.	1.2	8
120	Phase Formation during Heating of Amorphous Nickel-Based BNi-3 for Joining of Dissimilar Cobalt-Based Superalloys. <i>Materials</i> , 2021, 14, 4600.	1.3	8
121	Effect of Heat Treatment on Microstructure and Creep Behavior of Fe-40Ni-24Cr Alloy. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7951.	1.3	7
122	Dual Synergistic Effects of MgO-GO Fillers on Degradation Behavior, Biocompatibility and Antibacterial Activities of Chitosan Coated Mg Alloy. <i>Coatings</i> , 2022, 12, 63.	1.2	7
123	Cutting-Edge Progress in Stimuli-Responsive Bioadhesives: From Synthesis to Clinical Applications. <i>Polymers</i> , 2022, 14, 1709.	2.0	7
124	In-vitro assessment of Î²-tricalcium phosphate/bredigite-ciprofloxacin (CPFX) scaffolds for bone treatment applications. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 045038.	1.7	6
125	Characterization and Corrosion Behavior Evaluation of Nanostructured TiO ₂ and Al ₂ O ₃ -13Åwt.%TiO ₂ Coatings on Aluminum Alloy Prepared via High-Velocity Oxy-Fuel Spray. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 1356-1370.	1.2	6
126	Fabrication and Corrosion Resistance Evaluation of Novel Epoxy/Oxide Layer (MgO) Coating on Mg Alloy. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2020, 56, 1039-1050.	0.3	6

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127	Graphene oxide encapsulated forsterite scaffolds to improve mechanical properties and antibacterial behavior. <i>Biomedical Materials (Bristol)</i> , 2022, 17, 035011.	1.7	6
128	Titania-carbon nanotubes nanocomposite coating on Mg alloy: Microstructural characterisation and mechanical properties. <i>Materials Science and Technology</i> , 2018, 34, 378-387.	0.8	5
129	Preparation of poly($\mu\epsilon$ caprolactone) $\hat{\epsilon}$ hydroxyapatite composite coating for improvement of corrosion performance of biodegradable magnesium. <i>Material Design and Processing Communications</i> , 2020, 2, e170.	0.5	5
130	Mechanical property, antibacterial activity and cytocompatibility of a PMMA-based bone cement loaded with clindamycin for orthopaedic surgeries. <i>Materials Technology</i> , 2021, 36, 564-573.	1.5	5
131	Antibacterial Activity and Cell Responses of Vancomycin-Loaded Alginate Coating on ZSM-5 Scaffold for Bone Tissue Engineering Applications. <i>Materials</i> , 2022, 15, 4786.	1.3	5
132	Additive Manufacturing of Polymer Matrix Composites. , 2021, , 1013-1028.		4
133	Friction welding of pure titanium-AZ31 magnesium alloy: Characterization and simulation. <i>Engineering Failure Analysis</i> , 2022, 131, 105799.	1.8	4
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