

Hamid Reza Bakhsheshi Rad

List of Publications by Year in Descending Order

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Version: 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

137
papers

3,230
citations

33
h-index

48
g-index

146
ext. papers

4,338
ext. citations

3.8
avg, IF

5.87
L-index

#	Paper	IF	Citations
137	Microstructural Characteristics and Strengthening Mechanisms of FerriticMartensitic Dual-Phase Steels: A Review. <i>Metals</i> , 2022 , 12, 101	2.3	2
136	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	2.9	0
135	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	2.3	3
134	Effect of Vanadium and Rare Earth on the Structure, Phase Transformation Kinetics and Mechanical Properties of Carbide-Free Bainitic Steel Containing Silicon. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 1668	2.6	0
133	Friction welding of pure titanium-AZ31 magnesium alloy: Characterization and simulation. <i>Engineering Failure Analysis</i> , 2022 , 131, 105799	3.2	0
132	Effects of nanomaterials on biodegradation of biomaterials 2022 , 105-135		
131	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	3.1	1
130	A Review on Antibacterial Biomaterials in Biomedical Applications: From Materials Perspective to Bioinks Design. <i>Polymers</i> , 2022 , 14, 2238	4.5	4
129	Overview of magnesium-ceramic composites: Mechanical, corrosion and biological properties. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 6034-6034	5.5	4
128	Friction Stir Welding/Processing of Mg-Based Alloys: A Critical Review on Advancements and Challenges. <i>Materials</i> , 2021 , 14,	3.5	2
127	3D printed microneedles for transdermal drug delivery: A brief review of two decades. <i>International Journal of Pharmaceutics</i> , 2021 , 597, 120301	6.5	15
126	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	2.1	2
125	Improved Bacteriostatic and Anticorrosion Effects of Polycaprolactone/Chitosan Coated Magnesium via Incorporation of Zinc Oxide. <i>Materials</i> , 2021 , 14,	3.5	4
124	Relationship between the microstructure and the heat treatment and creep behavior of Fe ₃ Ni ₁₉ Cr alloy. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021 , 44, 1719	3	1
123	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	4.1	7
122	Recent Advances in Chemically-Modified and Hybrid Carrageenan-Based Platforms for Drug Delivery, Wound Healing, and Tissue Engineering. <i>Polymers</i> , 2021 , 13,	4.5	11
121	A Comprehensive Review on Surface Modifications of Biodegradable Magnesium-Based Implant Alloy: Polymer Coatings Opportunities and Challenges. <i>Coatings</i> , 2021 , 11, 747	2.9	9

120	A Brief Review on Additive Manufacturing of Polymeric Composites and Nanocomposites. <i>Micromachines</i> , 2021 , 12,	3.3	6
119	Recent Advances on Bioprinted Gelatin Methacrylate-Based Hydrogels for Tissue Repair. <i>Tissue Engineering - Part A</i> , 2021 , 27, 679-702	3.9	17
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	2.3	3
117	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	2.1	1
116	In vitro bioactivity and corrosion of PLGA/hydroxyapatite composite-coated magnesium-based nanocomposite for implant applications. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021 , 28, 168-178	3.1	2
115	Poly(methyl methacrylate) bone cement, its rise, growth, downfall and future. <i>Polymer International</i> , 2021 , 70, 1182-1201	3.3	3
114	Characterization and biological properties of nanostructured clinoenstatite scaffolds for bone tissue engineering applications. <i>Materials Chemistry and Physics</i> , 2021 , 259, 123969	4.4	2
113	Poly(methyl methacrylate)-Based Composite Bone Cements With Different Types of Reinforcement Agents 2021 , 867-886		
112	Additive Manufacturing of Polymer Matrix Composites 2021 , 1013-1028		3
111	Corrosion Inhibitive Property of Self-Assembled Films Formed by Schiff base Molecules on Carbon Steel Surface. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2021 , 57, 849-857	0.9	0
110	Recent advances on akermanite calcium-silicate ceramic for biomedical applications. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 1901	2	6
109	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	5.5	2
108	Phase Formation during Heating of Amorphous Nickel-Based BNi-3 for Joining of Dissimilar Cobalt-Based Superalloys. <i>Materials</i> , 2021 , 14,	3.5	3
107	Effect of Heat Treatment on Microstructure and Creep Behavior of Fe-40Ni-24Cr Alloy. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7951	2.6	3
106	3-Dimensional Printing of Hydrogel-Based Nanocomposites: A Comprehensive Review on the Technology Description, Properties, and Applications. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100477	3.5	8
105	Characterization and Corrosion Behavior Evaluation of Nanostructured TiO ₂ and Al ₂ O ₃ -13 wt.%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	1.6	2
104	Electrospun Nano-Fibers for Biomedical and Tissue Engineering Applications: A Comprehensive Review. <i>Materials</i> , 2020 , 13,	3.5	55
103	Effect of Substrate 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	2.4	4

102	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,	3.5	27
101	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	8.3	38
100	Microstructure, mechanical properties, and in-vitro biocompatibility of nano- NiTi reinforced Mg ₃ Zn-0.5Ag alloy: Prepared by mechanical alloying for implant applications. <i>Composites Part B: Engineering</i> , 2020 , 190, 107947	10	23
99	In vitro and in vivo evaluation of silk fibroin-hardystonite-gentamicin nanofibrous scaffold for tissue engineering applications. <i>Polymer Testing</i> , 2020 , 91, 106698	4.5	7
98	Polymethyl Methacrylate-Based Bone Cements Containing Carbon Nanotubes and Graphene Oxide: An Overview of Physical, Mechanical, and Biological Properties. <i>Polymers</i> , 2020 , 12,	4.5	24
97	Preparation of poly(ϵ -caprolactone)-hydroxyapatite composite coating for improvement of corrosion performance of biodegradable magnesium. <i>Material Design and Processing Communications</i> , 2020 , 2, e170	0.9	4
96	Hyaluronic Acid (HA)-Based Silk Fibroin/Zinc Oxide Core-Shell Electrospun Dressing for Burn Wound Management. <i>Macromolecular Bioscience</i> , 2020 , 20, e1900328	5.5	62
95	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	7.9	66
94	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	3.3	15
93	Clinoenstatite/Tantalum Coating for Enhancement of Biocompatibility and Corrosion Protection of Mg Alloy. <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	7
92	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	0.9	2
91	Biocompatibility and bioactivity of hardystonite-based nanocomposite scaffold for tissue engineering applications. <i>Biomedical Physics and Engineering Express</i> , 2020 , 6, 035011	1.5	4
90	In vitro and in vivo evaluation of chitosan-alginate/gentamicin wound dressing nanofibrous with high antibacterial performance. <i>Polymer Testing</i> , 2020 , 82, 106298	4.5	71
89	Magnesium-graphene nano-platelet composites: Corrosion behavior, mechanical and biological properties. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153379	5.7	33
88	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	4.4	14
87	Carbon Nanotubes (CNTs)-Reinforced Magnesium-Based Matrix Composites: A Comprehensive Review. <i>Materials</i> , 2020 , 13,	3.5	28
86	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	6.8	24
85	Antibacterial activities of zeolite/silver-graphene oxide nanocomposite in bone implants. <i>Materials Technology</i> , 2020 , 1-10	2.1	7

84	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	4.8	14
83	Study of Corrosion Behavior and In Vitro Bioactivity of Single NbSi ₂ and Duplex NbSi ₂ /Nb ₅ Si ₃ Coatings on Nb Substrates for Biomedical Applications. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2020 , 56, 628-637	0.9	1
82	Graphene Family Nanomaterial Reinforced Magnesium-Based Matrix Composites for Biomedical Application: A Comprehensive Review. <i>Metals</i> , 2020 , 10, 1002	2.3	13
81	In Vitro Corrosion Behavior and Cytotoxicity of Polycaprolactone-Kermanite-Coated Friction-Welded Commercially Pure Ti/AZ31 for Orthopedic Applications. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 6053-6065	1.6	6
80	Recent Trends in Three-Dimensional Bioinks Based on Alginate for Biomedical Applications. <i>Materials</i> , 2020 , 13,	3.5	22
79	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	3.3	6
78	Antioxidant, Antimicrobial and Antiviral Properties of Herbal Materials. <i>Antioxidants</i> , 2020 , 9,	7.1	57
77	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	2.1	9
76	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	4.4	49
75	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	3.3	18
74	Antibacterial activity and in vivo wound healing evaluation of polycaprolactone-gelatin methacryloyl-cephalexin electrospun nanofibrous. <i>Materials Letters</i> , 2019 , 256, 126618	3.3	30
73	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	2	14
72	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	3.2	24
71	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	5.1	41
70	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	8.3	24
69	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	1.6	13
68	A new multifunctional monticellite-ciprofloxacin scaffold: Preparation, bioactivity, biocompatibility, and antibacterial properties. <i>Materials Chemistry and Physics</i> , 2019 , 222, 118-131	4.4	24
67	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	5.7	29

66	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	3.3	35
65	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	2.1	9
64	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	4.1	54
63	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	8.1	29
62	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	0.9	9
61	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	4.4	58
60	Titania-carbon nanotubes nanocomposite coating on Mg alloy: microstructural characterisation and mechanical properties. <i>Materials Science and Technology</i> , 2018 , 34, 378-387	1.5	4
59	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	3.3	33
58	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	3.3	14
57	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	1.6	17
56	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	4.4	11
55	Thermal Characteristics, Mechanical Properties, In Vitro Degradation and Cytotoxicity of Novel Biodegradable Zn-Al-Mg and Zn-Al-Mg-Bi Alloys. <i>Acta Metallurgica Sinica (English Letters)</i> , 2017 , 30, 201-211	2.5	27
54	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	8.3	89
53	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	5.7	15
52	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	1.6	15
51	Drug delivery and cytocompatibility of ciprofloxacin loaded gelatin nanofibers-coated Mg alloy. <i>Materials Letters</i> , 2017 , 207, 179-182	3.3	36
50	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	5.1	27
49	Novel nanostructured baghdadite-vancomycin scaffolds: In-vitro drug release, antibacterial activity and biocompatibility. <i>Materials Letters</i> , 2017 , 209, 369-372	3.3	28

48	Microstructural characterisation of air plasma sprayed nanostructure ceramic coatings on Mg1%Ca alloys (bonded by NiCoCrAlYTaNi alloy). <i>Ceramics International</i> , 2016 , 42, 357-371	5.1	20
47	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	3.7	47
46	Corrosion and bioactivity performance of graphene oxide coating on TiNb shape memory alloys in simulated body fluid. <i>Materials Science and Engineering C</i> , 2016 , 68, 687-694	8.3	34
45	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	5.7	35
44	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	5.1	20
43	Microstructure, mechanical properties and corrosion behavior of AlBiCuZnX (X=Bi, Sb, Sr) die cast alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2016 , 26, 28-38	3.3	19
42	Fabrication and characterization of hydrophobic microarc oxidation/poly-lactic acid duplex coating on biodegradable MgCa alloy for corrosion protection. <i>Vacuum</i> , 2016 , 125, 185-188	3.7	41
41	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	8.3	61
40	Enhancement of corrosion resistance and mechanical properties of Mg0.2Ca0.2Bi via a hybrid silicon-biopolymer coating system. <i>Surface and Coatings Technology</i> , 2016 , 301, 133-139	4.4	17
39	Preparation and characterization of NiCrAlY/nano-YSZ/PCL composite coatings obtained by combination of atmospheric plasma spraying and dip coating on MgCa alloy. <i>Journal of Alloys and Compounds</i> , 2016 , 658, 440-452	5.7	55
38	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	5.7	40
37	Fabrication, degradation behavior and cytotoxicity of nanostructured hardystonite and titania/hardystonite coatings on Mg alloys. <i>Vacuum</i> , 2016 , 129, 9-12	3.7	13
36	Novel bi-layered nanostructured SiO2/Ag-FHAp coating on biodegradable magnesium alloy for biomedical applications. <i>Ceramics International</i> , 2016 , 42, 11941-11950	5.1	32
35	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	5.7	27
34	Effect of Cooling Rate on the Corrosion Behaviour of Zn-Al and Zn-Al-Mg Alloy. <i>Materials Science Forum</i> , 2015 , 819, 71-75	0.4	0
33	Microstructural and Corrosion Behavior of Biodegradable Magnesium Alloys for Biomedical Implant. <i>Materials Science Forum</i> , 2015 , 819, 331-336	0.4	0
32	The role of bismuth on the microstructure and corrosion behavior of ternary Mg0.2Ca0.2Bi alloys for biomedical applications. <i>Journal of Alloys and Compounds</i> , 2015 , 640, 335-346	5.7	33
31	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	1.6	11

30	Correlation of microstructural and corrosion characteristics of quaternary shape memory alloys Cu ₄₀ Ni ₄₀ X (X=Mn or Ti). <i>Transactions of Nonferrous Metals Society of China</i> , 2015 , 25, 1158-1170	3-3	28
29	Deposition of duplex MAO layer/nanostructured titanium dioxide composite coatings on Mg ₉₀ %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	5-7	50
28	Microstructural, mechanical properties and corrosion behavior of plasma sprayed NiCrAlY/nano-YSZ duplex coating on Mg _{90.2} Ca ₃ Zn alloy. <i>Ceramics International</i> , 2015 , 41, 15272-15277	5-1	18
27	Fabrication and properties of triplex NiCrAlY/nano Al ₂ O ₃ -3%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	5-7	29
26	Corrosion and mechanical performance of double-layered nano-Al/PCL coating on Mg ₉₀ Ca ₁₀ Bi alloy. <i>Vacuum</i> , 2015 , 119, 95-98	3-7	24
25	Effect of Electrodeposition Parameters on the Microstructure and Corrosion Behavior of DCPD Coatings on Biodegradable Mg ₉₀ Ca ₁₀ Zn Alloy. <i>International Journal of Applied Ceramic Technology</i> , 2015 , 12, 1054-1064	2	11
24	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	3-7	15
23	Bi-layer nano-TiO ₂ /FHA composite coatings on Mg ₉₀ Zn ₁₀ Ca alloy prepared by combined physical vapour deposition and electrochemical deposition methods. <i>Vacuum</i> , 2014 , 110, 127-135	3-7	43
22	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	3-7	26
21	Fabrication and corrosion behavior of Si/HA nano-composite coatings on biodegradable Mg ₉₀ Zn ₁₀ Ca alloy. <i>Surface and Coatings Technology</i> , 2014 , 258, 1090-1099	4-4	42
20	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	3-3	34
19	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	5-1	31
18	In-vitro corrosion inhibition mechanism of fluorine-doped hydroxyapatite and brushite coated Mg ₉₀ Ca alloys for biomedical applications. <i>Ceramics International</i> , 2014 , 40, 7971-7982	5-1	72
17	Synthesis and biodegradation evaluation of nano-Si and nano-Si/TiO ₂ coatings on biodegradable Mg ₉₀ Ca alloy in simulated body fluid. <i>Ceramics International</i> , 2014 , 40, 14009-14018	5-1	22
16	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	3-7	25
15	Influence of Silver nanoparticles addition on the phase transformation, mechanical properties and corrosion behaviour of Cu ₄₀ Ni ₄₀ shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2014 , 612, 471-478	5-7	46
14	Microstructural characterization and corrosion resistance evaluation of nanostructured Al and Al/AlCr coated Mg ₉₀ Zn ₁₀ Ca alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 615, 657-671	5-7	27
13	Phase Evaluation of Pure Mg, Mg-1Ca and Mg-1Ca-3Zn Alloys by Thermal Analysis Used in Medical Applications. <i>Applied Mechanics and Materials</i> , 2014 , 606, 93-97	0-3	

12	Thermal characteristics and corrosion behaviour of Mg ₉₀ Zn alloys for biomedical applications. <i>Bulletin of Materials Science</i> , 2013 , 36, 1103-1113	1.7	15
11	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	3.3	26
10	Effect of fluoride treatment on corrosion behavior of Mg ₉₀ Ca binary alloy for implant application. <i>Transactions of Nonferrous Metals Society of China</i> , 2013 , 23, 699-710	3.3	40
9	Synthesis and in vitro degradation evaluation of the nano-HA/MgF ₂ and DCPD/MgF ₂ composite coating on biodegradable Mg ₉₀ Ca ₁₀ Zn alloy. <i>Surface and Coatings Technology</i> , 2013 , 222, 79-89	4.4	85
8	Effect of Secondary Phase on the Corrosion Behavior of Mg ₉₀ Ca and Mg ₉₀ Zn Binary Alloys. <i>Advanced Science Letters</i> , 2013 , 19, 2553-2557	0.1	2
7	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	4.1	15
6	Microstructure analysis and corrosion behavior of biodegradable Mg ₉₀ Ca implant alloys. <i>Materials & Design</i> , 2012 , 33, 88-97		167
5	In-situ thermal analysis and macroscopical characterization of Mg ₉₀ Ca and Mg _{90.5} Ca _{9.5} Zn alloy systems. <i>Thermochimica Acta</i> , 2012 , 527, 180-189	2.9	63
4	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	5.7	17
3	Relationship between the corrosion behavior and the thermal characteristics and microstructure of Mg _{90.5} Ca _{9.5} Zn alloys. <i>Corrosion Science</i> , 2012 , 64, 184-197	6.8	176
2	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	1.2	21
1	Antimicrobial synthetic and natural polymeric nanofibers as wound dressing: A review. <i>Advanced Engineering Materials</i> ,	3.5	3