

Ying Zhao

List of Publications by Year in Descending Order

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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.

59
papers

2,378
citations

30
h-index

48
g-index

64
ext. papers

2,950
ext. citations

7.3
avg, IF

4.96
L-index

#	Paper	IF	Citations
59	Insight into microbiologically induced corrosion performance of magnesium in tryptic soy broth with <i>S. aureus</i> and <i>E. coli</i> . <i>Journal of Materials Science and Technology</i> , 2022 , 115, 221-231	9.1	1
58	Stepwise 3D-spatio-temporal magnesium cationic niche: Nanocomposite scaffold mediated microenvironment for modulating intramembranous ossification. <i>Bioactive Materials</i> , 2021 , 6, 503-519	16.7	10
57	Regulation of extracellular bioactive cations in bone tissue microenvironment induces favorable osteoimmune conditions to accelerate bone regeneration. <i>Bioactive Materials</i> , 2021 , 6, 2315-2330	16.7	23
56	Enhanced spreading, migration and osteodifferentiation of HBMSCs on macroporous CS-Ta - A biocompatible macroporous coating for hard tissue repair. <i>Materials Science and Engineering C</i> , 2021 , 129, 112411	8.3	2
55	and antibacterial performance of Zr & O PIII magnesium alloys with high concentration of oxygen vacancies. <i>Bioactive Materials</i> , 2021 , 6, 3049-3061	16.7	4
54	Effects of combined chemical design (Cu addition) and topographical modification (SLA) of Ti-Cu/SLA for promoting osteogenic, angiogenic and antibacterial activities. <i>Journal of Materials Science and Technology</i> , 2020 , 47, 202-215	9.1	22
53	Corrosion resistance and biocompatibility of calcium-containing coatings developed in near-neutral solutions containing phytic acid and phosphoric acid on AZ31B alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 823, 153721	5.7	30
52	Copper-doped 3D porous coating developed on Ti-6Al-4V alloys and its in vitro long-term antibacterial ability. <i>Applied Surface Science</i> , 2020 , 509, 144717	6.7	19
51	Degradation Resistance and In Vitro Cytocompatibility of Iron-Containing Coatings Developed on WE43 Magnesium Alloy by Micro-Arc Oxidation. <i>Coatings</i> , 2020 , 10, 1138	2.9	4
50	3D-printed nanocomposite scaffolds with tunable magnesium ionic microenvironment induce in situ bone tissue regeneration. <i>Applied Materials Today</i> , 2019 , 16, 493-507	6.6	20
49	A surface-engineered multifunctional TiO based nano-layer simultaneously elevates the corrosion resistance, osteoconductivity and antimicrobial property of a magnesium alloy. <i>Acta Biomaterialia</i> , 2019 , 99, 495-513	10.8	20
48	In vitro study on cytocompatibility and osteogenesis ability of Ti-Cu alloy. <i>Journal of Materials Science: Materials in Medicine</i> , 2019 , 30, 75	4.5	23
47	Biofilm inhibition and corrosion resistance of 2205-Cu duplex stainless steel against acid producing bacterium <i>Acetobacter acetii</i> . <i>Journal of Materials Science and Technology</i> , 2019 , 35, 2494-2502	9.1	21
46	In vivo study of microarc oxidation coated Mg alloy as a substitute for bone defect repairing: Degradation behavior, mechanical properties, and bone response. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 181, 349-359	6	18
45	A functionalized TiO/MgTiO nano-layer on biodegradable magnesium implant enables superior bone-implant integration and bacterial disinfection. <i>Biomaterials</i> , 2019 , 219, 119372	15.6	46
44	Preparation and formation mechanism of copper incorporated micro-arc oxidation coatings developed on Ti-6Al-4V alloys. <i>Surface and Coatings Technology</i> , 2019 , 375, 74-85	4.4	19
43	Enhanced resistance of 2205 Cu-bearing duplex stainless steel towards microbiologically influenced corrosion by marine aerobic <i>Pseudomonas aeruginosa</i> biofilms. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 1325-1336	9.1	62

42	Hot deformation behavior of Cu-bearing antibacterial titanium alloy. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 1867-1875	9.1	8
41	In vitro and in vivo studies of anti-bacterial copper-bearing titanium alloy for dental application. <i>Dental Materials</i> , 2018 , 34, 1112-1126	5.7	87
40	Antimicrobial Cu-bearing 2205 duplex stainless steel against MIC by nitrate reducing <i>Pseudomonas aeruginosa</i> biofilm. <i>International Biodeterioration and Biodegradation</i> , 2018 , 132, 132-138	4.8	30
39	Biodegradable Magnesium Alloys Developed as Bone Repair Materials: A Review. <i>Scanning</i> , 2018 , 2018, 9216314	1.6	83
38	Investigation of Zinc and Phosphorus Elements Incorporated into Micro-Arc Oxidation Coatings Developed on Ti-6Al-4V Alloys. <i>Materials</i> , 2018 , 11,	3.5	12
37	Precisely controlled delivery of magnesium ions thru sponge-like monodisperse PLGA/nano-MgO-alginate core-shell microsphere device to enable in-situ bone regeneration. <i>Biomaterials</i> , 2018 , 174, 1-16	15.6	92
36	Optimized antibacterial treatment for the Cu-bearing 420 stainless steel. <i>Materials Technology</i> , 2018 , 33, 699-708	2.1	6
35	Laboratory investigation of microbiologically influenced corrosion of 2205 duplex stainless steel by marine <i>Pseudomonas aeruginosa</i> biofilm using electrochemical noise. <i>Corrosion Science</i> , 2018 , 143, 281-291	6.8	31
34	In Vitro Cytocompatibility and Osteogenic Potential of Biodegradable MgBr Alloys 2018 , 425-436		
33	Functionalized Polymeric Membrane with Enhanced Mechanical and Biological Properties to Control the Degradation of Magnesium Alloy. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601269	10.1	32
32	Osteogenic potential of a novel microarc oxidized coating formed on Ti6Al4V alloys. <i>Applied Surface Science</i> , 2017 , 412, 29-36	6.7	28
31	Effect of Cu Addition to 2205 Duplex Stainless Steel on the Resistance against Pitting Corrosion by the <i>Pseudomonas aeruginosa</i> Biofilm. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 723-727	9.1	42
30	Investigation on mechanical, corrosion resistance and antibacterial properties of Cu-bearing 2205 duplex stainless steel by solution treatment. <i>RSC Advances</i> , 2016 , 6, 112738-112747	3.7	12
29	Biodegradable Mg-Cu alloys with enhanced osteogenesis, angiogenesis, and long-lasting antibacterial effects. <i>Scientific Reports</i> , 2016 , 6, 27374	4.9	103
28	In vitro study on an antibacterial Ti-5Cu alloy for medical application. <i>Journal of Materials Science: Materials in Medicine</i> , 2016 , 27, 91	4.5	34
27	Plasma Surface Functionalized Polyetheretherketone for Enhanced Osseo-Integration at Bone-Implant Interface. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3901-11	9.5	44
26	Electrochemical corrosion behavior of biodegradable Mg ₉₂ RE and Mg ₉₂ Zn ₇ alloys in Ringer's solution and simulated body fluid. <i>Corrosion Science</i> , 2015 , 91, 160-184	6.8	129
25	Effects of zirconium and oxygen plasma ion implantation on the corrosion behavior of ZK60 Mg alloy in simulated body fluids. <i>Corrosion Science</i> , 2014 , 82, 7-26	6.8	80

24	Plasma modified Mg ₉₂ Zn ₇ Zr alloy with enhanced surface corrosion resistance. <i>Corrosion Science</i> , 2014 , 78, 121-129	6.8	65
23	Rare-earth-incorporated polymeric vector for enhanced gene delivery. <i>Biomaterials</i> , 2014 , 35, 479-88	15.6	10
22	Functionalization of biomedical materials using plasma and related technologies. <i>Applied Surface Science</i> , 2014 , 310, 11-18	6.7	19
21	Enhanced antimicrobial properties, cytocompatibility, and corrosion resistance of plasma-modified biodegradable magnesium alloys. <i>Acta Biomaterialia</i> , 2014 , 10, 544-56	10.8	157
20	Effects of zirconium and nitrogen plasma immersion ion implantation on the electrochemical corrosion behavior of Mg/Y-RE alloy in simulated body fluid and cell culture medium. <i>Corrosion Science</i> , 2014 , 86, 239-251	6.8	40
19	Plasma Modification of DLC Films and the Resulting Surface Biocompatibility. <i>Materials Science Forum</i> , 2014 , 783-786, 1396-1401	0.4	1
18	Improved surface corrosion resistance of WE43 magnesium alloy by dual titanium and oxygen ion implantation. <i>Thin Solid Films</i> , 2013 , 529, 407-411	2.2	50
17	Cytocompatibility, osseointegration, and bioactivity of three-dimensional porous and nanostructured network on polyetheretherketone. <i>Biomaterials</i> , 2013 , 34, 9264-77	15.6	229
16	Direct formation of amine functionality on DLC films and surface cyto-compatibility. <i>Diamond and Related Materials</i> , 2013 , 38, 28-31	3.5	5
15	Improved in vitro and in vivo biocompatibility of dual plasma modified titanium alloy. <i>Surface and Coatings Technology</i> , 2013 , 229, 130-134	4.4	11
14	Self-protection against corrosion of aged magnesium alloy in simulated physiological environment. <i>Corrosion Science</i> , 2013 , 68, 279-285	6.8	50
13	In vivo stimulation of bone formation by aluminum and oxygen plasma surface-modified magnesium implants. <i>Biomaterials</i> , 2013 , 34, 9863-76	15.6	83
12	Effects of silicon plasma ion implantation on electrochemical corrosion behavior of biodegradable Mg/Y-RE Alloy. <i>Corrosion Science</i> , 2013 , 69, 158-163	6.8	54
11	Effects of carbon dioxide plasma immersion ion implantation on the electrochemical properties of AZ31 magnesium alloy in physiological environment. <i>Applied Surface Science</i> , 2013 , 286, 257-260	6.7	14
10	Effects of carbon and nitrogen plasma immersion ion implantation on in vitro and in vivo biocompatibility of titanium alloy. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 1510-6	9.5	70
9	Formation and electrochemical behavior of Al and O plasma-implanted biodegradable Mg-Y-RE alloy. <i>Materials Chemistry and Physics</i> , 2012 , 132, 187-191	4.4	37
8	Effects of surface alloying on electrochemical corrosion behavior of oxygen-plasma-modified biomedical magnesium alloy. <i>Surface and Coatings Technology</i> , 2012 , 206, 3186-3195	4.4	40
7	The effect of interlayer on corrosion resistance of ceramic coating/Mg alloy substrate in simulated physiological environment. <i>Surface and Coatings Technology</i> , 2012 , 206, 4892-4898	4.4	34

6	Improved corrosion resistance and cytocompatibility of magnesium alloy by two-stage cooling in thermal treatment. <i>Corrosion Science</i> , 2012 , 59, 360-365	6.8	53
5	Functional replication of the tendon tissue microenvironment by a bioimprinted substrate and the support of tenocytic differentiation of mesenchymal stem cells. <i>Biomaterials</i> , 2012 , 33, 7686-98	15.6	71
4	Rapid degradation of biomedical magnesium induced by zinc ion implantation. <i>Materials Letters</i> , 2011 , 65, 661-663	3.3	40
3	Synthesis and optical properties of CdS nanowires by a simple chemical deposition. <i>Journal of Materials Science</i> , 2010 , 45, 1803-1808	4.3	10
2	Effect of heat treatment on bioactivity of anodic titania films. <i>Applied Surface Science</i> , 2010 , 256, 3073-3076	3.7	30
1	In vitro bioactivity and cytocompatibility of porous scaffolds of bioactive borosilicate glasses. <i>Science Bulletin</i> , 2009 , 54, 3181-3186		4