

Yilong Dai

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.

33
papers

530
citations

12
h-index

22
g-index

34
ext. papers

740
ext. citations

4.9
avg, IF

3.73
L-index

#	Paper	IF	Citations
33	Effects of Extrusion and Rolling Processes on the Microstructure and Mechanical Properties of Zn-Li-Ag Alloys. <i>Metals</i> , 2022 , 12, 520	2.3	
32	In vitro and in vivo assessment of the effect of biodegradable magnesium alloys on osteogenesis.. <i>Acta Biomaterialia</i> , 2021 ,	10.8	4
31	Biodegradable behavior and antibacterial activities of a novel Zn-0.5%Li-(Ag) alloys. <i>Materials Research Express</i> , 2021 , 8, 055405	1.7	1
30	Mg(OH) nanoparticles enhance the antibacterial activities of macrophages by activating the reactive oxygen species. <i>Journal of Biomedical Materials Research - Part A</i> , 2021 , 109, 2369-2380	5.4	3
29	Impact of scandium on mechanical properties, corrosion behavior, friction and wear performance, and cytotoxicity of a Etype Ti-24Nb-38Zr-2Mo alloy for orthopedic applications. <i>Acta Biomaterialia</i> , 2021 , 134, 791-803	10.8	6
28	A homogenous microstructural Mg-based matrix model for orthopedic application with generating uniform and smooth corrosion product layer in Ringer's solution: Study on biodegradable behavior of Mg-Zn alloys prepared by powder metallurgy as a case. <i>Journal of Magnesium and Alloys</i> , 2021 , 9, 225-240	8.8	5
27	Development of biodegradable Zn-1Mg-0.1RE (RE=Er, Dy, and Ho) alloys for biomedical applications. <i>Acta Biomaterialia</i> , 2020 , 117, 384-399	10.8	9
26	Microstructure, mechanical properties, degradation behavior, and biocompatibility of porous Fe-Mn alloys fabricated by sponge impregnation and sintering techniques. <i>Acta Biomaterialia</i> , 2020 , 114, 485-496	10.8	11
25	Mg-Zn-Mn alloy extract induces the angiogenesis of human umbilical vein endothelial cells via FGF/FGFR signaling pathway. <i>Biochemical and Biophysical Research Communications</i> , 2019 , 514, 618-624	3.4	7
24	LOC103691336/miR-138-5p/BMP2 axis modulates Mg-mediated osteogenic differentiation in rat femoral fracture model and rat primary bone marrow stromal cells. <i>Journal of Cellular Physiology</i> , 2019 , 234, 21316-21330	7	19
23	Effects of alloying elements on the electrochemical behaviors of Al-Mg-Ga-In based anode alloys. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 12073-12084	6.7	26
22	Effects of Strontium addition on microstructure, mechanical properties, corrosion properties and cytotoxicity of Mg-Zn-Mn alloy. <i>Materials Research Express</i> , 2019 , 6, 056556	1.7	7
21	Investigation on the microstructure, mechanical properties, in vitro degradation behavior and biocompatibility of newly developed Zn-0.8%Li-(Mg, Ag) alloys for guided bone regeneration. <i>Materials Science and Engineering C</i> , 2019 , 99, 1021-1034	8.3	52
20	Evaluation of the mechanisms and effects of Mg-Ag-Y alloy on the tumor growth and metastasis of the MG63 osteosarcoma cell line. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019 , 107, 2537-2548	3.5	6
19	Microstructure, Corrosion Behaviors in Different Simulated Body Fluids and Cytotoxicity of ZnLi Alloy as Biodegradable Material. <i>Materials Transactions</i> , 2019 , 60, 583-586	1.3	3
18	Effects of Heat Treatment on Microstructure, Mechanical Properties, Corrosion Resistance and Cytotoxicity of ZM21 Magnesium Alloy as Biomaterials. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 33-43	1.6	5
17	Mechanical strengthening mechanism of Zn-Li alloy and its mini tube as potential absorbable stent material. <i>Materials Letters</i> , 2019 , 235, 220-223	3.3	28

16	In vitro and in vivo evaluation of novel biodegradable Mg-Ag-Y alloys for use as resorbable bone fixation implant. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 2059-2069	5.4	7
15	A Potential Biodegradable Mg-Y-Ag Implant with Strengthened Antimicrobial Properties in Orthopedic Applications. <i>Metals</i> , 2018 , 8, 948	2.3	7
14	Effects of the Intermetallic Phases on Microstructure and Properties of Biodegradable Magnesium Matrix and Zinc Matrix Prepared by Powder Metallurgy. <i>Materials Transactions</i> , 2018 , 59, 1837-1844	1.3	3
13	Microstructures and Properties of Al ₀ 7%Si Composites: Influence of Rolling and Annealing. <i>Materials Transactions</i> , 2018 , 59, 724-729	1.3	
12	Effects of microstructure on the electrochemical discharge behavior of Mg-6wt%Al-1wt%Sn alloy as anode for Mg-air primary battery. <i>Journal of Alloys and Compounds</i> , 2017 , 708, 652-661	5.7	71
11	Improvement of the mechanical properties and corrosion resistance of biodegradable β Ca(PO) ₃ /Mg-Zn composites prepared by powder metallurgy: the adding β Ca(PO) ₃ hot extrusion and aging treatment. <i>Materials Science and Engineering C</i> , 2017 , 74, 582-596	8.3	34
10	Effects of polycaprolactone coating on the biodegradable behavior and cytotoxicity of Mg-6%Zn-10%Ca ₃ (PO ₄) ₂ composite in simulated body fluid. <i>Materials Letters</i> , 2017 , 198, 118-120	3.3	6
9	Microstructure and Discharge Behavior of Mg-Al-Sn-In Anode Alloys. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A1745-A1754	3.9	14
8	Effects of Zn concentration and heat treatment on the microstructure, mechanical properties and corrosion behavior of as-extruded Mg-Zn alloys produced by powder metallurgy. <i>Journal of Alloys and Compounds</i> , 2017 , 693, 1277-1289	5.7	58
7	Corrosion and Discharge Behaviors of Al-Mg-Sn-Ga-In in Different Solutions. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 3456-3464	1.6	15
6	Microstructure and Mechanical Properties of AA1235 Aluminum Foil Stocks Produced Directly from Electrolytic Aluminum Melt. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 731-739	2.5	1
5	Composition optimization and electrochemical properties of Mg-Al-Pb-(Zn) alloys as anodes for seawater activated battery. <i>Electrochimica Acta</i> , 2016 , 194, 40-51	6.7	40
4	The effects of rolling deformation on Al-27%Si alloys prepared by powder metallurgy for electronic packaging applications 2015 ,		1
3	Biodegradation performance of a chitosan coated magnesium-zinc-tricalcium phosphate composite as an implant. <i>Biointerphases</i> , 2014 , 9, 031004	1.8	11
2	In vivo biocompatibility and biodegradation of a Mg-15%Ca ₃ (PO ₄) ₂ composite as an implant material. <i>Materials Letters</i> , 2013 , 98, 22-25	3.3	15
1	In vitro corrosion behavior and in vivo biodegradation of biomedical β Ca ₃ (PO ₄) ₂ /Mg-Zn composites. <i>Acta Biomaterialia</i> , 2012 , 8, 2845-55	10.8	55