Yilong Dai

List of Publications by Citations

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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	530	12	22
papers	citations	h-index	g-index
34	740	4.9	3.73
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
33	Effects of microstructure on the electrochemical discharge behavior of Mg-6wt%Al-1wt%Sn alloy as anode for Mg-air primary battery. *Journal of Alloys and Compounds*, **2017**, 708, 652-661	5.7	71
32	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. *Journal of Alloys and Compounds*, **2017**, 693, 1277-1289	5.7	58
31	In vitro corrosion behavior and in vivo biodegradation of biomedical Ca3(PO4)2/Mg-Zn composites. *Acta Biomaterialia*, **2012**, 8, 2845-55	10.8	55
30	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. *Materials Science and Engineering C*, **2019**, 99, 1021-1034	8.3	52
29	Composition optimization and electrochemical properties of Mg-Al-Pb-(Zn) alloys as anodes for seawater activated battery. *Electrochimica Acta*, **2016**, 194, 40-51	6.7	40
28	Improvement of the mechanical properties and corrosion resistance of biodegradable Ca(PO)/Mg-Zn composites prepared by powder metallurgy: the adding Ca(PO) hot extrusion and aging treatment. *Materials Science and Engineering C*, **2017**, 74, 582-596	8.3	34
27	Mechanical strengthening mechanism of Zn-Li alloy and its mini tube as potential absorbable stent material. *Materials Letters*, **2019**, 235, 220-223	3.3	28
26	Effects of alloying elements on the electrochemical behaviors of Al-Mg-Ga-In based anode alloys. *International Journal of Hydrogen Energy*, **2019**, 44, 12073-12084	6.7	26
25	LOC103691336/miR-138-5p/BMPR2 axis modulates Mg-mediated osteogenic differentiation in rat femoral fracture model and rat primary bone marrow stromal cells. *Journal of Cellular Physiology*, **2019**, 234, 21316-21330	7	19
24	Corrosion and Discharge Behaviors of Al-Mg-Sn-Ga-In in Different Solutions. *Journal of Materials Engineering and Performance*, **2016**, 25, 3456-3464	1.6	15
23	In vivo biocompatibility and biodegradation of a Mg-15%Ca3(PO4)2 composite as an implant material. *Materials Letters*, **2013**, 98, 22-25	3.3	15
22	Microstructure and Discharge Behavior of Mg-Al-Sn-In Anode Alloys. *Journal of the Electrochemical Society*, **2017**, 164, A1745-A1754	3.9	14
21	Biodegradation performance of a chitosan coated magnesium-zinc-tricalcium phosphate composite as an implant. *Biointerphases*, **2014**, 9, 031004	1.8	11
20	Microstructure, mechanical properties, degradation behavior, and biocompatibility of porous Fe-Mn alloys fabricated by sponge impregnation and sintering techniques. *Acta Biomaterialia*, **2020**, 114, 485-496	10.8	11
19	Development of biodegradable Zn-1Mg-0.1RE (RE = Er, Dy, and Ho) alloys for biomedical applications. *Acta Biomaterialia*, **2020**, 117, 384-399	10.8	9
18	Mg-Zn-Mn alloy extract induces the angiogenesis of human umbilical vein endothelial cells via FGF/FGFR signaling pathway. *Biochemical and Biophysical Research Communications*, **2019**, 514, 618-624	3.4	7
17	Effects of Strontium addition on microstructure, mechanical properties, corrosion properties and cytotoxicity of Mg1Zn1Mn alloy. *Materials Research Express*, **2019**, 6, 056556	1.7	7

16	In vitro and in vivo evaluation of novel biodegradable Mg-Ag-Y alloys for use as resorbable bone fixation implant. *Journal of Biomedical Materials Research - Part A*, **2018**, 106, 2059-2069	5.4	7
15	A Potential Biodegradable Mg-Y-Ag Implant with Strengthened Antimicrobial Properties in Orthopedic Applications. *Metals*, **2018**, 8, 948	2.3	7
14	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. *Materials Letters*, **2017**, 198, 118-120	3.3	6
13	Evaluation of the mechanisms and effects of Mg-Ag-Y alloy on the tumor growth and metastasis of the MG63 osteosarcoma cell line. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2019**, 107, 2537-2548	3.5	6
12	Impact of scandium on mechanical properties, corrosion behavior, friction and wear performance, and cytotoxicity of a β-type Ti-24Nb-38Zr-2Mo alloy for orthopedic applications. *Acta Biomaterialia*, **2021**, 134, 791-803	10.8	6
11	Effects of Heat Treatment on Microstructure, Mechanical Properties, Corrosion Resistance and Cytotoxicity of ZM21 Magnesium Alloy as Biomaterials. *Journal of Materials Engineering and Performance*, **2019**, 28, 33-43	1.6	5
10	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. *Journal of Magnesium and Alloys*, **2021**, 9, 225-240	8.8	5
9	In vitro and in vivo assessment of the effect of biodegradable magnesium alloys on osteogenesis.. *Acta Biomaterialia*, **2021**,	10.8	4
8	Microstructure, Corrosion Behaviors in Different Simulated Body Fluids and Cytotoxicity of Zn-Li Alloy as Biodegradable Material. *Materials Transactions*, **2019**, 60, 583-586	1.3	3
7	Mg(OH) nanoparticles enhance the antibacterial activities of macrophages by activating the reactive oxygen species. *Journal of Biomedical Materials Research - Part A*, **2021**, 109, 2369-2380	5.4	3
6	Effects of the Intermetallic Phases on Microstructure and Properties of Biodegradable Magnesium Matrix and Zinc Matrix Prepared by Powder Metallurgy. *Materials Transactions*, **2018**, 59, 1837-1844	1.3	3
5	The effects of rolling deformation on Al-27%Si alloys prepared by powder metallurgy for electronic packaging applications **2015**,		1
4	Microstructure and Mechanical Properties of AA1235 Aluminum Foil Stocks Produced Directly from Electrolytic Aluminum Melt. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2016**, 47, 731-739	2.5	1
3	Biodegradable behavior and antibacterial activities of a novel Zn-0.5%Li-(Ag) alloys. *Materials Research Express*, **2021**, 8, 055405	1.7	1
2	Microstructures and Properties of Al-27%Si Composites: Influence of Rolling and Annealing. *Materials Transactions*, **2018**, 59, 724-729	1.3	
1	Effects of Extrusion and Rolling Processes on the Microstructure and Mechanical Properties of Zn-Li-Ag Alloys. *Metals*, **2022**, 12, 520	2.3	