Yilong Dai

List of Publications by Year in descending order

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34 papers	950 citations	471061 17 h-index	454577 30 g-index
34 all docs	34 docs citations	34 times ranked	863 citing authors

#	Article	IF	Citations
1	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.	2.8	115
2	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.	3.8	87
3	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.	2.8	82
4	In vitro corrosion behavior and in vivo biodegradation of biomedical Î²-Ca3(PO4)2/Mgâ€“Zn composites. Acta Biomaterialia, 2012, 8, 2845-2855.	4.1	71
5	Composition optimization and electrochemical properties of Mg-Al-Pb-(Zn) alloys as anodes for seawater activated battery. Electrochimica Acta, 2016, 194, 40-51.	2.6	57
6	Development of biodegradable Znâ€“1Mgâ€“0.1RE (REÂ=ÂEr, Dy, and Ho) alloys for biomedical applications. Acta Biomaterialia, 2020, 117, 384-399.	4.1	57
7	In vitro and in vivo assessment of the effect of biodegradable magnesium alloys on osteogenesis. Acta Biomaterialia, 2022, 141, 454-465.	4.1	47
8	Improvement of the mechanical properties and corrosion resistance of biodegradable Î²-Ca 3 (PO 4) 2 /Mg-Zn composites prepared by powder metallurgy: the adding Î²-Ca 3 (PO 4) 2, hot extrusion and aging treatment. Materials Science and Engineering C, 2017, 74, 582-596.	3.8	46
9	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.	3.8	46
10	Mechanical strengthening mechanism of Zn-Li alloy and its mini tube as potential absorbable stent material. Materials Letters, 2019, 235, 220-223.	1.3	43
11	LOC103691336/miRâ€138â€5p/BMPR2 axis modulates Mgâ€mediated osteogenic differentiation in rat femoral fracture model and rat primary bone marrow stromal cells. Journal of Cellular Physiology, 2019, 234, 21316-21330.	2.0	36
12	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.	4.1	29
13	Microstructure and Discharge Behavior of Mg-Al-Sn-In Anode Alloys. Journal of the Electrochemical Society, 2017, 164, A1745-A1754.	1.3	23
14	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.	5.5	23
15	Mgâ€“Znâ€“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.	1.0	20
16	Corrosion and Discharge Behaviors of Al-Mg-Sn-Ga-In in Different Solutions. Journal of Materials Engineering and Performance, 2016, 25, 3456-3464.	1.2	19
17	Impact of scandium on mechanical properties, corrosion behavior, friction and wear performance, and cytotoxicity of a Î²-type Tiâ€“24Nbâ€“38Zrâ€“2Mo alloy for orthopedic applications. Acta Biomaterialia, 2021, 134, 791-803.	4.1	19
18	In vivo biocompatibility and biodegradation of a Mg-15%Ca3(PO4)2 composite as an implant material. Materials Letters, 2013, 98, 22-25.	1.3	17

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19	In vitro and in vivo evaluation of novel biodegradable Mgâ€Agâ€Y alloys for use as resorbable bone fixation implant. Journal of Biomedical Materials Research - Part A, 2018, 106, 2059-2069.	2.1	15
20	A Potential Biodegradable Mg-Y-Ag Implant with Strengthened Antimicrobial Properties in Orthopedic Applications. Metals, 2018, 8, 948.	1.0	14
21	Effects of Strontium addition on microstructure, mechanical properties, corrosion properties and cytotoxicity of Mgâ€“1Znâ€“1Mn alloy. Materials Research Express, 2019, 6, 056556.	0.8	13
22	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.	1.2	13
23	Biodegradation performance of a chitosan coated magnesium-zinc-tricalcium phosphate composite as an implant. Biointerphases, 2014, 9, 031004.	0.6	12
24	Evaluation of the mechanisms and effects of Mgâ€“Agâ€“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.	1.6	11
25	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.	1.3	10
26	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.	0.4	8
27	Mg(<scp>OH</scp>)₂ nanoparticles enhance the antibacterial activities of macrophages by activating the reactive oxygen species. Journal of Biomedical Materials Research - Part A, 2021, 109, 2369-2380.	2.1	8
28	Microstructure, Corrosion Behaviors in Different Simulated Body Fluids and Cytotoxicity of Znâ€“Li Alloy as Biodegradable Material. Materials Transactions, 2019, 60, 583-586.	0.4	3
29	Biodegradable behavior and antibacterial activities of a novel Zn-0.5%Li-(Ag) alloys. Materials Research Express, 2021, 8, 055405.	0.8	2
30	Effect of SiC_p particle size and anneal on properties of Al/SiC composites prepared by powder liquid -phase sintering. , 2015, , .		1
31	The effects of rolling deformation on Al-27%Si alloys prepared by powder metallurgy for electronic packaging applications. , 2015, , .		1
32	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.	1.0	1
33	Effects of Extrusion and Rolling Processes on the Microstructure and Mechanical Properties of Zn-Li-Ag Alloys. Metals, 2022, 12, 520.	1.0	1
34	Microstructures and Properties of Alâ€“27%Si Composites: Influence of Rolling and Annealing. Materials Transactions, 2018, 59, 724-729.	0.4	0