

Kun Yu

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54
papers

799
citations

18
h-index

27
g-index

55
ext. papers

1,027
ext. citations

3.5
avg, IF

4.09
L-index

#	Paper	IF	Citations
54	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
53	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
52	In vitro corrosion behavior and in vivo biodegradation of biomedical $\text{Ca}_3(\text{PO}_4)_2/\text{Mg-Zn}$ composites. <i>Acta Biomaterialia</i> , 2012 , 8, 2845-55	10.8	55
51	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
50	Effects of Heat Treatment on the Discharge Behavior of Mg-6wt.%Al-1wt.%Sn Alloy as Anode For Magnesium-Air Batteries. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 2901-2911	1.6	43
49	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
48	Improvement of the mechanical properties and corrosion resistance of biodegradable $\text{Ca}(\text{PO})/\text{Mg-Zn}$ composites prepared by powder metallurgy: the adding $\text{Ca}(\text{PO})$ hot extrusion and aging treatment. <i>Materials Science and Engineering C</i> , 2017 , 74, 582-596	8.3	34
47	Effect of T5 and T6 Tempers on a Hot-Rolled WE43 Magnesium Alloy. <i>Materials Transactions</i> , 2008 , 49, 1818-1821	1.3	34
46	Microstructures and properties of Al β 0%SiC composites for electronic packaging applications. <i>Transactions of Nonferrous Metals Society of China</i> , 2016 , 26, 2647-2652	3.3	31
45	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
44	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
43	Discharge behavior and electrochemical properties of Mg-Al-Sn alloy anode for seawater activated battery. <i>Transactions of Nonferrous Metals Society of China</i> , 2015 , 25, 1234-1240	3.3	26
42	Mechanical and structural characterization of diopside scaffolds reinforced with graphene. <i>Journal of Alloys and Compounds</i> , 2016 , 655, 86-92	5.7	21
41	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
40	Selective Laser Melting and Remelting of Pure Tungsten. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901352	3.52	19
39	Microstructure, Mechanical Properties and Corrosion Behavior of Porous Mg-6 wt.% Zn Scaffolds for Bone Tissue Engineering. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 970-984	1.6	19
38	Effects of chitosan coating on biocompatibility of Mg β %Zn β 0%Ca β 3(PO β 4) β 2 implant. <i>Transactions of Nonferrous Metals Society of China</i> , 2015 , 25, 824-831	3.3	19

37	Microstructure Evolution and Mechanical Properties Improvement in Liquid-Phase-Sintered Hydroxyapatite by Laser Sintering. <i>Materials</i> , 2015 , 8, 1162-1175	3.5	18
36	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
35	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
34	Mechanical properties and microstructure of as-cast and extruded Mg-(Ce, Nd)-Zn-Zr alloys. <i>Central South University</i> , 2005 , 12, 499-502		13
33	Biodegradation performance of a chitosan coated magnesium-zinc-tricalcium phosphate composite as an implant. <i>Biointerphases</i> , 2014 , 9, 031004	1.8	11
32	Influence of Ga Content on Electrochemical Behavior of Mg-5 at%Hg Anode Materials. <i>Materials Transactions</i> , 2008 , 49, 1077-1080	1.3	11
31	Production and Properties of a Spray Formed 70%Si-Al Alloy for Electronic Packaging Applications. <i>Materials Transactions</i> , 2008 , 49, 685-687	1.3	9
30	Enhanced osteoinductivity and corrosion resistance of dopamine/gelatin/rhBMP-2-coated TiCP/Mg-Zn orthopedic implants: An in vitro and in vivo study. <i>PLoS ONE</i> , 2020 , 15, e0228247	3.7	8
29	Effects of Al and Sn on microstructure, corrosion behavior and electrochemical performance of MgAl-based anodes for magnesium-air batteries. <i>Journal of Alloys and Compounds</i> , 2021 , 859, 157755	5.7	8
28	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
27	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
26	Constitutive analysis of AZ31 magnesium alloy plate. <i>Central South University</i> , 2010 , 17, 7-12		7
25	A Potential Biodegradable Mg-Y-Ag Implant with Strengthened Antimicrobial Properties in Orthopedic Applications. <i>Metals</i> , 2018 , 8, 948	2.3	7
24	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
23	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
22	Effect of Sc and Zr on Al ₆ (Mn,Fe) Phase in AlMgMn Alloys. <i>Materials Transactions</i> , 2019 , 60, 737-742	1.3	6
21	Effects of Interface Structures on the Application Properties of Ni/Al Clad Composite. <i>Composite Interfaces</i> , 2011 , 18, 399-406	2.3	6
20	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

19	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
18	In vitro corrosion behavior and cytotoxicity property of magnesium matrix composite with chitosan coating. <i>Journal of Central South University</i> , 2015 , 22, 829-834	2.1	4
17	Plastic deformation behavior of ZK60 magnesium alloy with addition of neodymium. <i>Central South University</i> , 2008 , 15, 434-437		4
16	In vitro and in vivo assessment of the effect of biodegradable magnesium alloys on osteogenesis.. <i>Acta Biomaterialia</i> , 2021 ,	10.8	4
15	Microstructure, biodegradable behavior in different simulated body fluids, antibacterial effect on different bacteria and cytotoxicity of rolled Zn ₄₀ Ag alloy. <i>Materials Research Express</i> , 2020 , 7, 055403	1.7	3
14	Microstructure, Corrosion Behaviors in Different Simulated Body Fluids and Cytotoxicity of Zn ₄₀ Alloy as Biodegradable Material. <i>Materials Transactions</i> , 2019 , 60, 583-586	1.3	3
13	Recrystallization Behavior in an Al-Cu-Mg-Fe-Ni Alloy with Trace Scandium and Zirconium. <i>Materials Transactions, JIM</i> , 2000 , 41, 358-361		3
12	Electrochemical behavior of Mg-Al-Pb alloy in 3.5% NaCl solution. <i>Journal of Central South University</i> , 2016 , 23, 2475-2482	2.1	3
11	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
10	Effects of Al and Sn on electrochemical properties of Mg-6%Al-1%Sn (mass fraction) magnesium alloy as anode in 3.5%NaCl solution. <i>Journal of Central South University</i> , 2014 , 21, 4409-4414	2.1	2
9	The effects of rolling deformation on Al-27%Si alloys prepared by powder metallurgy for electronic packaging applications 2015 ,		1
8	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
7	Mechanical properties and biodegradable behavior of Mg ₆₅ Zn ₁₀ Ca ₃ (PO ₄) ₂ metal matrix composites in Ringer's solution. <i>International Journal of Materials Research</i> , 2012 , 103, 723-728	0.5	1
6	Manufacturing process and electrochemical properties of an Mg ₆₅ Ag anode sheet. <i>International Journal of Materials Research</i> , 2012 , 103, 1030-1034	0.5	1
5	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
4	Research on corrosion behavior and biocompatibility of a porous Mg-3%Zn/5%Ca(PO) composite scaffold for bone tissue engineering. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2019 , 17, 2280800019857064	1.8	0
3	Application of digital modeling and three-dimensional printing of titanium mesh for reconstruction of thyroid cartilage in partial laryngectomy.. <i>Acta Oto-Laryngologica</i> , 2022 , 1-6	1.6	0
2	Synthesis of Ag-La _{0.8} Sr _{0.2} MnO ₃ (LSM-Ag) Composite Powder and Its Application in Magnesium Air Battery. <i>Metals</i> , 2021 , 11, 633	2.3	

- 1 Effects of Extrusion and Rolling Processes on the Microstructure and Mechanical Properties of Zn-Li-Ag Alloys. *Metals*, **2022**, 12, 520 2.3