

Jinshan Zhang

List of Publications by Year in descending order

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papers

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471509

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#	ARTICLE	IF	CITATIONS
1	Study of Mg-Gd-Zn-Zr alloys with long period stacking ordered structures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 585, 268-276.	5.6	55
2	Effects of Ca on the formation of LPSO phase and mechanical properties of Mg-Zn-Y-Mn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 648, 37-40.	5.6	54
3	18R and 14H long-period stacking ordered structures in the Mg _{93.96} Zn ₂ Y ₄ Sr _{0.04} alloy and the modification effect of Sr on X-phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 552, 81-88.	5.6	53
4	Optimum parameters and kinetic analysis for hot working of a solution-treated Mg-Zn-Y-Mn magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2018, 754, 283-296.	5.5	39
5	High-performance extruded Mg ₈₉ Y ₄ Zn ₂ Li ₅ alloy with deformed LPSO structures plus fine dynamical recrystallized grains. <i>Materials and Design</i> , 2016, 110, 1-9.	7.0	36
6	Effects of Mn on the microstructure and mechanical properties of long period stacking ordered Mg ₉₅ Zn _{2.5} Y _{2.5} alloy. <i>Materials Letters</i> , 2013, 109, 46-50.	2.6	34
7	Extensive dynamic recrystallized grains at kink boundary of 14H LPSO phase in extruded Mg ₉₂ Gd ₃ Zn ₁ Li ₄ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 681, 97-102.	5.6	34
8	Abundant long period stacking ordered structure induced by Ni addition into Mg-Gd-Zn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 618, 355-358.	5.6	33
9	Effect of Alloyed Mo on Mechanical Properties, Biocorrosion and Cytocompatibility of As-Cast Mg-Zn-Y-Mn Alloys. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 500-513.	2.9	33
10	Effects of 14H LPSO phase on the dynamic recrystallization and work hardening behaviors of an extruded Mg-Zn-Y-Mn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 804, 140727.	5.6	32
11	A high strength and good ductility Mg-Y-Ni-Ti alloy with long period stacking ordered structure processed by hot rolling and aging treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 648, 134-139.	5.6	30
12	Effect of microalloying with boron on the microstructure and mechanical properties of Mg-Zn-Y-Mn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 669, 340-343.	5.6	30
13	Two dynamic recrystallization processes in a high-performance extruded Mg _{94.5} Y ₂ Gd ₁ Zn ₂ Mn _{0.5} alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 690, 132-136.	5.6	28
14	Precipitation behaviors of 14H LPSO lamellae in Mg ₉₆ Gd ₃ Zn _{0.5} Ni _{0.5} alloys during severe plastic deformation. <i>Journal of Materials Science</i> , 2017, 52, 13271-13283.	3.7	23
15	Effects of Ti addition on the microstructure and mechanical properties of Mg-Zn-Zr-Ca alloys. <i>Journal of Magnesium and Alloys</i> , 2015, 3, 121-126.	11.9	19
16	Effects of Li on Microstructures, Mechanical, and Biocorrosion Properties of Biodegradable Mg ₉₄ Zn ₂ Y ₄ Li _x Alloys with Long Period Stacking Ordered Phase. <i>Advanced Engineering Materials</i> , 2017, 19, 1600606.	3.5	19
17	Corrosion Behaviors of Long-Period Stacking Ordered Structure in Mg Alloys Used in Biomaterials: A Review. <i>Advanced Engineering Materials</i> , 2018, 20, 1800017.	3.5	18
18	The influence of minor boron on the precipitation behavior of LPSO phase and dynamic recrystallization in the Mg ₉₄ Y _{2.5} Zn _{2.5} Mn ₁ alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 705, 257-264.	5.6	17

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19	Influence of micro-alloying with Cd on growth pattern, mechanical properties and microstructure of as-cast Mg ₉₄ Y _{2.5} Zn _{2.5} Mn ₁ alloy containing LPSO structure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 748, 294-300.	5.6	17
20	Dynamic precipitation behavior and mechanical properties of hot-extruded Mg ₈₉ Y ₄ Zn ₂ Li ₅ alloys with different extrusion ratio and speed. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 798, 140121.	5.6	17
21	Microstructure and mechanical properties of Mg-Zn-Mn magnesium alloys with different Zn/Y atomic ratio. Journal of Materials Research and Technology, 2022, 19, 1650-1657.	5.8	14
22	High-strength Mg ₉₅ Y ₃ Zn ₁ Ni ₁ alloy with LPSO structure processed by hot rolling. Materials and Manufacturing Processes, 2017, 32, 62-68.	4.7	13
23	Hot deformation behavior and workfability of the homogenized Mg-5.8Zn-1.2Y-1Mn alloy containing l and W phases. Journal of Materials Research and Technology, 2021, 15, 2202-2212.	5.8	10
24	Effect of Ti and Zr Combined Modification on Microstructures and Mechanical Properties of Mg ₉₅ Y _{2.5} Zn _{2.5} Alloy Containing LPSO and W Phases. Advanced Engineering Materials, 2017, 19, 1600839.	3.5	9
25	Modification of Mn on corrosion and mechanical behavior of biodegradable Mg ₈₈ Y ₄ Zn ₂ Li ₅ alloy with long-period stacking ordered structure. Journal of Materials Science and Technology, 2020, 42, 130-142.	10.7	9
26	Research on Dynamic Corrosion Behavior and the Microstructure of Biomedical Mg-Y-Zn-Zr-Sr in Simulated Body Fluid Solution after Processing by Solution Treatment. Advanced Engineering Materials, 2020, 22, 1901146.	3.5	9
27	Effect of ZRB2-modified on microstructure and mechanical properties of Mg-Zn-Y-Mn alloy. Journal of Magnesium and Alloys, 2018, 6, 255-262.	11.9	8
28	Microstructure and mechanical properties of ultrafine grained Mg ₁₅ Al alloy processed by equal-channel angular pressing. Journal Wuhan University of Technology, Materials Science Edition, 2010, 25, 238-242.	1.0	5
29	Synergistic Effects of B ₄ C and Sn on the Coupled Growth Pattern and Mechanical Properties of Mg-Y-Zn-Mn Alloy Containing LPSO and W Phases. Advanced Engineering Materials, 2018, 20, 1800131.	3.5	5
30	Effect of Microalloyed Al on Microstructure and Corrosion Behaviors of As-Cast Mg-Zn-Y-Mn Alloys. Advanced Engineering Materials, 2021, 23, .	3.5	5
31	Microstructural characterizations and mechanical properties of Mg-8Sn-1Al-1Zn-xCu alloys. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 803-807.	1.0	4
32	Microstructure Evolution and Mechanical Properties of Long Period Stacking Ordered Mg ₉₆ Gd ₃ Ni ₁ Alloy with Al and Sr Additions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2710-2717.	2.2	4
33	Enhanced Performance of Mg-Zn-Y-Mn Alloy via Minor Ca Addition. Advanced Engineering Materials, 2019, 21, 1900908.	3.5	4
34	Effects of Phase Content and Evolution on the Mechanical Properties of Mg ₉₅ Y _{2.5} Zn _{2.5} and Mg _{93.1} Y _{2.5} Zn _{2.5} Ti _{1.6} Zr _{0.3} Alloys Containing LPSO and W Phases. Advanced Engineering Materials, 2017, 19, 1700185.	3.5	3
35	Microstructures and biocorrosion properties of biodegradable Mg-Zn-Y-Ca-Zr alloys. International Journal of Materials Research, 2018, 109, 621-628.	0.3	3
36	Influence of Ni Alloying on the Precipitation of Quasicrystal Phase in As-Cast Mg 96.5 Zn 1 Y 1.5 Mn 1 Alloy. Advanced Engineering Materials, 2019, 21, 1801238.	3.5	3

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37	Microstructure characterization and indentation hardness testing behavior of Mg-8Sn-xAl-1Zn alloys. Journal Wuhan University of Technology, Materials Science Edition, 2015, 30, 1043-1048.	1.0	2
38	Effect of heat-treatment on the microstructures and mechanical properties of Mg-10Zn-5Al-0.1Sb-xCu magnesium alloy. Journal Wuhan University of Technology, Materials Science Edition, 2013, 28, 834-839.	1.0	1
39	Microstructure and properties of SiC/Gr composite reinforced aluminum matrix composites material. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 171-176.	1.0	1
40	Research of the microstructure, mechanical property and corrosion behaviours of Mg-Y-Zn-Mn-Mo alloy with solution treatment. Corrosion Engineering Science and Technology, 2021, 56, 427-438.	1.4	1
41	Effect of Sr on the microstructure and corrosion properties of the as-cast Mg-Zn-Zr alloy. International Journal of Materials Research, 2022, 113, 194-204.	0.3	0