

Penghuai Fu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Effects of extrusion and heat treatment on the mechanical properties and biocorrosion behaviors of a Mg-3Nd-0.2Zn-0.4Zr alloy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 7, 77-86.	1.5	195
2	Effects of heat treatments on the microstructures and mechanical properties of Mg-3Nd-0.2Zn-0.4Zr (wt.%) alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 486, 183-192.	2.6	169
3	Microstructure, mechanical properties, biocorrosion behavior, and cytotoxicity of as-extruded Mg-3Nd-0.2Zn-0.4Zr alloy with different extrusion ratios. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 9, 153-162.	1.5	162
4	Investigation of the corrosion for Mg-xGd-3Y-0.4Zr (x=6,8,10,12wt%) alloys in a peak-aged condition. <i>Corrosion Science</i> , 2008, 50, 166-177.	3.0	122
5	Microstructure evolution and mechanical properties of an ultra-high strength casting Mg-15.6Gd-1.8Ag-0.4Zr alloy. <i>Journal of Alloys and Compounds</i> , 2014, 615, 703-711.	2.8	103
6	Chemical composition optimization of gravity cast Mg-yNd-xZn-Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 496, 177-188.	2.6	82
7	Heat treatment and mechanical properties of a high-strength cast Mg-Gd-Zn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 651, 745-752.	2.6	75
8	Solidification Microstructure and Mechanical Properties of Cast Magnesium-Aluminum-Tin Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 360-368.	1.1	70
9	Low-pressure die casting of magnesium alloy AM50: Response to process parameters. <i>Journal of Materials Processing Technology</i> , 2008, 205, 224-234.	3.1	67
10	Fracture behavior and mechanical properties of Mg-4Y-2Nd-1Gd-0.4Zr (wt.%) alloy at room temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 486, 572-579.	2.6	52
11	Fatigue strength dependence on the ultimate tensile strength and hardness in magnesium alloys. <i>International Journal of Fatigue</i> , 2015, 80, 468-476.	2.8	50
12	Development of high strength sand cast Mg-Gd-Zn alloy by co-precipitation of the prismatic λ_2 and λ_1 phases. <i>Materials Characterization</i> , 2019, 153, 157-168.	1.9	50
13	Additively manufactured biodegradable porous magnesium implants for elimination of implant-related infections: An in vitro and in vivo study. <i>Bioactive Materials</i> , 2022, 8, 140-152.	8.6	47
14	Effects of Sm on the grain refinement, microstructures and mechanical properties of AZ31 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 620, 89-96.	2.6	46
15	Precipitation modification in cast Mg-1Nd-1Ce-Zr alloy by Zn addition. <i>Journal of Magnesium and Alloys</i> , 2019, 7, 113-123.	5.5	44
16	Characterization of phases in a Mg-6Gd-4Sm-0.4Zr (wt.%) alloy during solution treatment. <i>Materials Characterization</i> , 2009, 60, 555-559.	1.9	43
17	Identification of NdH ₂ particles in solution-treated Mg-2.5%Nd (wt.%) alloy. <i>Journal of Alloys and Compounds</i> , 2009, 485, 245-248.	2.8	37
18	High Cycle Fatigue of Cast Mg-3Nd-0.2Zn Magnesium Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 5202-5215.	1.1	33

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19	Fabrication and Biological Activity of 3D-Printed Polycaprolactone/Magnesium Porous Scaffolds for Critical Size Bone Defect Repair. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 5120-5131.	2.6	31
20	Effects of Mn addition on the microstructure and mechanical properties of cast Mg-9Al-2Sn (wt.%) alloy. <i>Journal of Magnesium and Alloys</i> , 2014, 2, 27-35.	5.5	28
21	Basal slip dominant fatigue damage behavior in a cast Mg-8Gd-3Y-Zr alloy. <i>International Journal of Fatigue</i> , 2019, 118, 104-116.	2.8	25
22	High cycle fatigue properties of cast Mg-xNd-0.2Zn-Zr alloys. <i>Journal of Materials Science</i> , 2014, 49, 7105-7115.	1.7	24
23	On the production of Mg-Nd master alloy from NdFeB magnet scraps. <i>Journal of Materials Processing Technology</i> , 2015, 218, 57-61.	3.1	24
24	Study on the interfacial heat transfer coefficient between AZ91D magnesium alloy and silica sand. <i>Experimental Thermal and Fluid Science</i> , 2014, 54, 196-203.	1.5	21
25	High cycle fatigue improvement by heat-treatment for semi-continuous casting Mg _{96.34} Gd _{2.5} Zn ₁ Zr _{0.16} alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 604, 78-85.	2.6	20
26	Influence of alloying elements on hot tearing susceptibility of Mg-Zn alloys based on thermodynamic calculation and experimental. <i>Journal of Magnesium and Alloys</i> , 2018, 6, 44-51.	5.5	20
27	The effects of grain size and heat treatment on the deformation heterogeneities and fatigue behaviors of GW83K magnesium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 754, 246-257.	2.6	18
28	Influence of solution temperature on fatigue behavior of AM-SC1 cast magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 565, 250-257.	2.6	17
29	Damage morphology study of high cycle fatigued as-cast Mg-3.0Nd-0.2Zn-Zr (wt.%) alloy. <i>Materials Characterization</i> , 2016, 111, 93-105.	1.9	16
30	Quench sensitivity characterization of a LPSO-phase containing Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 749, 291-300.	2.6	16
31	Strengthening mechanisms in solution treated Mg-yNd-zZn-xZr alloy. <i>Journal of Materials Science</i> , 2013, 48, 6367-6376.	1.7	13
32	High cycle fatigue behavior of as-cast Mg _{96.34} Gd _{2.5} Zn ₁ Zr _{0.16} alloy fabricated by semi-continuous casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 587, 72-78.	2.6	13
33	Effects of intermediate frequency magnetic field on the solution treatment of Mg-Gd alloy. <i>Materials Letters</i> , 2014, 123, 238-241.	1.3	13
34	Tensile crack initiation behavior of cast Mg-3Nd-0.2Zn-0.5Zr magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 673, 458-466.	2.6	12
35	A Simplified Hot-Tearing Criterion for Shape Castings Based on Temperature-Field Simulation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 5271-5280.	1.1	9
36	A study of microstructure, mechanical behavior and strengthen mechanism in the Mg-10Gd-0.2Zn-(Y)-0.4Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 793, 139881.	2.6	8

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37	Effects of Process Parameters on the Macrostructure of a Squeeze-Cast Mg-2.5 mass%Nd Alloy. <i>Materials Transactions</i> , 2009, 50, 2820-2825.	0.4	7
38	Effect of multiple thermal cycles on the microstructure evolution of GA151K alloy fabricated by laser-directed energy deposition. <i>Additive Manufacturing</i> , 2022, 57, 102957.	1.7	7
39	Fluidity of AZ91D and Mg-3Nd-0.2Zn-0.2Zr (wt-%) magnesium alloys: response to pouring and mould temperature. <i>International Journal of Cast Metals Research</i> , 2013, 26, 213-219.	0.5	5
40	Low-Cyclic Fatigue Behavior of Peak-Aged Mg-Nd-Based Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 754-761.	1.1	2
41	Concurrent effects of various B additions on grain refinement, Fe intermetallics morphologies, and ductility evolution of Al-7.5Si-0.55Mg (A357) cast alloy. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	1