Hai Hao

List of Publications by Year
in descending order

51	747	516215 16	580395 25
papers	citations	h-index	g-index

51	51	51	600
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electromagnetic interference shielding effectiveness of aluminum foams with different porosity. Journal of Alloys and Compounds, 2014, 617, 207-213.	2.8	106
2	Axial and radial compressive properties of alumina-aluminum matrix syntactic foam filled thin-walled tubes. Composite Structures, 2019, 226, 111197.	3.1	46
3	Effects of Nd on microstructure and mechanical properties of as-cast Mg-8Li-3Al alloy. Journal of Rare Earths, 2012, 30, 492-496.	2.5	33
4	Compressive properties of expanded glass and alumina hollow spheres hybrid reinforced aluminum matrix syntactic foams. Journal of Alloys and Compounds, 2020, 821, 153233.	2.8	33
5	Effect of neodymium, gadolinium addition on microstructure and mechanical properties of AZ80 magnesium alloy. Journal of Rare Earths, 2016, 34, 632-637.	2.5	32
6	Effects of ultrasonic vibration on solidification structure and properties of Mg-8Li-3Al alloy. Transactions of Nonferrous Metals Society of China, 2011, 21, 1241-1246.	1.7	31
7	Compressive Properties of Aluminum Matrix Syntactic Foams Prepared by Stir Casting Method. Advanced Engineering Materials, 2019, 21, 1900183.	1.6	30
8	Dynamic compressive behaviour of Mg foams manufactured by the direct foaming process. Materials and Design, 2016, 89, 636-641.	3.3	29
9	Effect of in-situ Al 2 Y particles on the as-cast/as-rolled microstructure and mechanical properties of AZ31 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 698, 27-35.	2.6	29
10	Effect of structure design on compressive properties and energy absorption behavior of ordered porous aluminum prepared by rapid casting. Materials and Design, 2019, 167, 107631.	3.3	29
11	Intermediate-Temperature Creep Deformation and Microstructural Evolution of an Equiatomic FCC-Structured CoCrFeNiMn High-Entropy Alloy. Entropy, 2018, 20, 960.	1.1	27
12	Effects of precipitates on grain size and mechanical properties of AZ31-x%Nd magnesium alloy. Journal of Rare Earths, 2014, 32, 451-457.	2.5	23
13	Effect of deep cryogenic treatment parameters on martensite multi-level microstructures and properties in a lath martensite/ferrite dual-phase steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 810, 141022.	2.6	21
14	Preparation of closed-cell Mg foams using SiO2-coated CaCO3 as blowing agent in atmosphere. Transactions of Nonferrous Metals Society of China, 2013, 23, 1832-1837.	1.7	19
15	The influence of carbon content on Alâ€“Tiâ€“C master alloy prepared by the self-propagating high-temperature synthesis in melt method and its refining effect on AZ31 alloy. Journal of Alloys and Compounds, 2015, 623, 266-273.	2.8	18
16	Microstructure and mechanical properties of AZ91 magnesium alloy with minor additions of Sm, Si and Ca elements. China Foundry, 2019, 16, 319-325.	0.5	18
17	Effects of minor Sr additions on the as-cast microstructure, fluidity and mechanical properties of Mg-4.2Zn-1.7RE-0.8Zr-0.2Ca (wt%) alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 723, 118-125.	2.6	17
18	Grain refinement mechanism of Al-5C master alloy in AZ31 magnesium alloy. Transactions of Nonferrous Metals Society of China, 2013, 23, 3167-3172.	1.7	16

#	Article	IF	Citations
19	The quasi-static axial compressive properties and energy absorption behavior of ex-situ ordered aluminum cellular structure filled tubes. Composite Structures, 2020, 239, 112039.	3.1	14
20	Effect of calcium addition on microstructure, casting fluidity and mechanical properties of Mg-Zn-Ce-Zr magnesium alloy. Journal of Rare Earths, 2017, 35, 503-509.	2.5	13
21	A novel method of indirect rapid prototyping to fabricate the ordered porous aluminum with controllable dimension variation and their properties. Journal of Materials Processing Technology, 2019, 266, 373-380.	3.1	13
22	Compressive properties and energy absorption behavior of Mg17Al12/Al ordered structure composites. Composites Part B: Engineering, 2021, 210, 108688.	5.9	13
23	Microstructural Characteristics and Wear Resistance of Electromagnetic Casting Aluminum Alloys. Materials Transactions, 2001, 42, 1952-1958.	0.4	12
24	Microstructure and mechanical properties of bimodal syntactic foams with different size combination and volume fraction of alumina hollow spheres. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 824, 141798.	2.6	11
25	Effects of electromagnetic stirring on microstructure and mechanical properties of super light Mg-Li-Al-Zn alloy. Transactions of Nonferrous Metals Society of China, 2010, 20, s388-s392.	1.7	10
26	Microstructure and mechanical properties of Gd-modified AZ80 magnesium alloys. Rare Metals, 2022, 41, 4194-4200.	3.6	8
27	Multi-objective optimization of process parameters during low-pressure die casting of AZ91D magnesium alloy wheel castings. China Foundry, 2018, 15, 327-332.	0.5	8
28	Effect of ageing treatment on microstructures, mechanical properties and corrosion behavior of Mg-Zn-RE-Zr alloy micro-alloyed with Ca and Sr. China Foundry, 2021, 18, 131-140.	0.5	8
29	Enhanced mechanical properties and formability of hot-rolled Mgâ€“Znâ€“Mn alloy by Ca and Sm alloying. Transactions of Nonferrous Metals Society of China, 2022, 32, 1119-1132.	1.7	8
30	Effect of Al4C3 Particle Size Distribution in a Alâ€“2.5C Master Alloy on the Refining Efficiency of the AZ31 Alloy. Acta Metallurgica Sinica (English Letters), 2017, 30, 505-512.	1.5	7
31	Numerical simulation and experimental investigation of a thin-wall magnesium alloy casting based on a rapid prototyping core making method. International Journal of Cast Metals Research, 2018, 31, 37-46.	0.5	7
32	Microstructure and Compressive Properties of Al/Al₂O₃ Syntactic Foams. Materials Science Forum, 0, 933, 174-181.	0.3	7
33	Grain refining effect of Mg by novel particle cluster-containing Alâ€“Tiâ€“C master alloy. Transactions of Nonferrous Metals Society of China, 2015, 25, 1804-1810.	1.7	6
34	The application of Alâ€“Tiâ€“B preform in Al-free Mgâ€“Zn alloy via the yttrium addition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 658, 376-380.	2.6	6
35	Improvement in Mechanical Properties of a Surface-Carburized Ferriteâ€“Martensite Dual-Phase Steel by Intercritical Annealing. Journal of Materials Engineering and Performance, 2020, 29, 7034-7044.	1.2	6
36	Microstructure and mechanical properties of forged Al-7.1Zn-1.1Mg-1.6Cu-0.14Zr alloy after two-step ageing treatment at 120 and 170Â°C. Rare Metals, 2010, 29, 433-437.	3.6	5

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37	Microstructure and fatigue characteristics of direct chill cast and electromagnetic cast 2024 Al alloy ingots. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2003, 34, 1537-1543.	1.1	4
38	Effects of electromagnetic field on structure and heat treatment behavior of Mg-Li-Al alloys. Transactions of Nonferrous Metals Society of China, 2008, 18, s96-s100.	1.7	4
39	Effect of Deep Cryogenic Treatment on the Microstructure and Wear Resistance of a Novel Nanobainite Steel. Steel Research International, 2021, 92, 2000554.	1.0	4
40	Grain Refinement of Mg-Al Alloys by a New Al-4.1V-1.7B Refiner Containing Sole VB2 Particles. Journal of Materials Engineering and Performance, 2023, 32, 761-772.	1.2	4
41	Development of a mathematical model and its application to the stress evolution of a multi-crystalline silicon billet during continuous casting. International Journal of Materials Research, 2016, 107, 790-800.	0.1	3
42	Effects of trace Zr on the microstructure and properties of 2E12 alloy. Rare Metals, 2009, 28, 511-515.	3.6	2
43	Effect of middle-frequency electromagnetic field on the semi-continuous casting for ZK60 billets. Journal Wuhan University of Technology, Materials Science Edition, 2010, 25, 449-453.	0.4	2
44	Meshing characteristics of geared rotor system in integrally geared compressor with unbalance excitation. JVC/Journal of Vibration and Control, 2019, 25, 26-40.	1.5	2
45	The influence of gadolinium on Alâ€“Tiâ€“C master alloy and its refining effect on AZ31 magnesium alloy. International Journal of Materials Research, 2021, .	0.1	2
46	Fabrication of Alâ€“Si Gasar by mold casting technique. International Journal of Materials Research, 2018, 109, 332-340.	0.1	1
47	Fabrication of Multiphase Particles and Grain Refinement of Al-Containing Magnesium. Springer Proceedings in Physics, 2019, , 607-614.	0.1	0
48	Determination of boundary condition of a multi-crystalline silicon billet during continuous casting. Inverse Problems in Science and Engineering, 2019, 27, 190-204.	1.2	0
49	Integrated Computation and Preparation Optimization of <i>In</i> S<i>itu</i> Ordered Porous Aluminum Filled Tubes. Materials Science Forum, 0, 993, 857-862.	0.3	0
50	Quasi-State Compressive Properties of Functionally Graded Aluminum Matrix Syntactic Foams. Materials Science Forum, 0, 1035, 878-883.	0.3	0
51	Effects of minor additions of cerium, silicon and calcium on microstructure and mechanical properties of AZ91 magnesium alloy. International Journal of Materials Research, 2020, 111, 220-227.	0.1	0