Yuan Liu

List of Publications by Year
in descending order

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41	759	758635 12	552369 26
papers	citations	h-index	g-index

41	41	41	485
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microstructure and mechanical properties of refractory HfMo0.5NbTiV0.5Six high-entropy composites. Journal of Alloys and Compounds, 2017, 694, 869-876.	2.8	142
2	Fabrication, properties, and applications of open-cell aluminum foams: A review. Journal of Materials Science and Technology, 2021, 62, 11-24.	5.6	106
3	Microstructure and mechanical properties of a refractory HfNbTiVSi0.5 high-entropy alloy composite. Materials Letters, 2016, 174, 82-85.	1.3	79
4	Experimental study on heat transfer performance of lotus-type porous copper heat sink. International Journal of Heat and Mass Transfer, 2013, 56, 172-180.	2.5	49
5	Fabrication, magnetostriction properties and applications of Tb-Dy-Fe alloys: a review. China Foundry, 2016, 13, 75-84.	0.5	32
6	Metal-gas eutectic growth during unidirectional solidification. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2006, 37, 2871-2878.	1.1	31
7	Foam stability in gas injection foaming process. Journal of Materials Science, 2010, 45, 6481-6493.	1.7	30
8	Optimization of cellular structure of aluminum foams produced by powder metallurgy method. Materials Letters, 2018, 216, 38-41.	1.3	24
9	Influence of solidification mode on pore structure of directionally solidified porous Cu-Mn alloy. Transactions of Nonferrous Metals Society of China, 2011, 21, 88-95.	1.7	23
10	Calculation of hydrogen solubility in molten alloys. Transactions of Nonferrous Metals Society of China, 2011, 21, 1130-1135.	1.7	21
11	Experimental Study on the Pore Structure of Directionally Solidified Porous Cu-Mn Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 3405-3411.	1.1	19
12	EXPERIMENTAL RESEARCH ON HEAT TRANSFER PERFORMANCE OF DIRECTIOANLLY SOLIDIFIED POROUS COPPER HEAT SINK. Jinshu Xuebao/Acta Metallurgica Sinica, 2012, 48, 329.	0.3	16
13	The cell size reduction of aluminum foam with dynamic gas injection based on the improved foamable melt. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 527, 123-131.	2.3	12
14	Effect of Co, Cu, Nb, Ti, V on magnetostriction and mechanical properties of TbDyFe alloys. Intermetallics, 2018, 100, 188-192.	1.8	11
15	A novel hot-pressing method to prepare foamable precursor of aluminum foam sandwich (AFS). Materials Letters, 2020, 259, 126895.	1.3	11
16	Cuâ€“Y, Cuâ€“La and Cuâ€“Ba alloysâ€™ microstructure and ablation behavior discharging in air and SF6. Vacuum, 2020, 173, 109163.	1.6	11
17	Compressive and Corrosion Properties of Lotus-Type Porous Mg-Mn Alloys Fabricated by Unidirectional Solidification. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 3238-3247.	1.1	11
18	Pore structure of unidirectional solidified lotus-type porous silicon. Transactions of Nonferrous Metals Society of China, 2014, 24, 3517-3523.	1.7	10

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19	Effect of pore structure on heat transfer performance of lotus-type porous copper heat sink. International Journal of Heat and Mass Transfer, 2019, 144, 118641.	2.5	10
20	Synthesis of a bimodal porous Cu with nanopores on the inner surface of Gasar pores: Influences of preparation conditions. Applied Surface Science, 2016, 360, 148-156.	3.1	9
21	Influence of withdrawing speed on the porous structures of Gasar ingots fabricated by Bridgman method. Journal of Materials Processing Technology, 2017, 245, 106-114.	3.1	9
22	Copper Cathodeâ€™s Ablated Structure Operated in a 50 Megawatt Arc Heater. Journal of Thermophysics and Heat Transfer, 2019, 33, 1055-1064.	0.9	9
23	Fabrication of high-porosity open-cell aluminum foam via high-temperature deformation of CaCl2 space-holders. Materials Letters, 2021, 284, 129018.	1.3	9
24	Effect of melt superheat on structural uniformity of lotus-type porous metals prepared by unidirectional solidification. Transactions of Nonferrous Metals Society of China, 2015, 25, 1004-1010.	1.7	8
25	THEORETICAL ANALYSIS ON EFFECT OF TRANSFERENCE VELOCITY ON STRUCTURE OF POROUS METALS FABRICATED BY CONTINUOUS CASTING GASAR PROCESS. Jinshu Xuebao/Acta Metallurgica Sinica, 2010, 2010, 129-134.	0.3	8
26	Effect of Cu and Sn additions on the cellular structure of Alâ€“Siâ€“Mg alloys foaming at low temperature (â‰600ÂÂ°C). Composites Part B: Engineering, 2022, 234, 109693.	5.9	8
27	Directional solidification of metal-gas eutectic and fabrication of regular porous metals. Frontiers of Mechanical Engineering in China, 2007, 2, 180-183.	0.4	7
28	Fabrication of lotus-type porous Mgâ€“Mn alloys by metal/gas eutectic unidirectional solidification. Transactions of Nonferrous Metals Society of China, 2020, 30, 1524-1534.	1.7	6
29	Pore structure of porous Mg-1Mn-xZn alloy fabricated by metalâ€“gas eutectic unidirectional solidification. Journal of Magnesium and Alloys, 2022, 10, 2137-2146.	5.5	6
30	Hydrogen diffusion coefficient in liquid metals evaluated by solidâ€“gas eutectic unidirectional solidification. Transactions of Nonferrous Metals Society of China, 2014, 24, 4030-4037.	1.7	5
31	Effect of Dy doping on magnetostrictive and mechanical properties of Fe83Ga17 alloy. China Foundry, 2020, 17, 198-205.	0.5	5
32	Fabrication of Gasar ingots with straight parallel pores by a Bridgman method. Journal of Materials Processing Technology, 2017, 249, 128-134.	3.1	4
33	Exploration of a micro multi-electrode technology applied in an air arc heater. Journal Physics D: Applied Physics, 2021, 54, 385205.	1.3	4
34	Pore structure analysis of directionally solidified porous copper. China Foundry, 2020, 17, 325-331.	0.5	3
35	Fabrication and compressive behavior of open-cell aluminum foams via infiltration casting using spherical CaCl2 space-holders. China Foundry, 2022, 19, 89-98.	0.5	3
36	Depositing and alloying on the inner surface of Gasar Cu pores by plating and annealing treatment. Applied Surface Science, 2015, 342, 69-75.	3.1	2

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37	Tailoring magnetostriction and magnetic domains of <100>-oriented Fe80Ga16Al4 alloy by magnetic field annealing. Rare Metals, 2021, 40, 563-569.	3.6	2
38	Research on the preparation method, microstructure and performance of hard silver plated/Cu-Cr0.6-Zr0.02 alloy contact. Materials Research Express, 2021, 8, 026519.	0.8	2
39	Arc spot formation conditions and influencing factors of a micro multi-electrode technology. Journal Physics D: Applied Physics, 0, , .	1.3	2
40	Fabrication of Lotus-Type Porous Silicon by Unidirectional Solidification in Pressurized Hydrogen Atmosphere. Materials Science Forum, 2013, 749, 217-222.	0.3	0
41	Effect of Precursor Design on Preparing Open-Cell Aluminum Foam Fabricated by Space-Holder Method. Materials Science Forum, 0, 1035, 169-174.	0.3	0