Zhi-Long Zhao

List of Publications by Year
in descending order

26	149	1478505 6	1281871 11
papers	citations	h-index	g-index

26	26	26	102
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Grain Refinement Induced by a Pulsed Magnetic Field and Synchronous Solidification. Materials and Manufacturing Processes, 2011, 26, 1202-1206.	4.7	30
2	Grain Refinement by Pulse Electric Discharging and Undercooling Mechanism. Materials and Manufacturing Processes, 2011, 26, 249-254.	4.7	22
3	Morphological instability of lamellar structures in directionally solidified Niâ€“Ni3Si alloys. Journal of Crystal Growth, 2018, 483, 275-280.	1.5	13
4	Fabrication of the lamellar NiAl nanochannel by selective phase dissolution of NiAlâ€“Cr(Mo) eutectic alloy. Corrosion Science, 2018, 138, 142-145.	6.6	9
5	Multiple micro-channels Ni3Si template fabricated by selective dissolution of Ni-Ni3Si eutectic. Materials Letters, 2017, 186, 375-377.	2.6	8
6	Lamellar Ni₃Si Microchannels and Ni₃Si Micropore Arrays in Niâ€Ni₃Si Hypereutectic Alloys. Journal of the Electrochemical Society, 2018, 165, E45-E49.	2.9	6
7	Tungsten wires and porous NiAl prepared through directional solidification and selective dissolution. Materials and Manufacturing Processes, 2017, 32, 1817-1822.	4.7	5
8	Nanoporous NiAl Matrix Fabricated through Directional Solidification and Pulsed Electrochemical Dissolution. Journal of the Electrochemical Society, 2017, 164, C474-C480.	2.9	5
9	Effect of growth rate on the microstructural transition and microhardness of directionally solidified Niâ€“11.8â€“wt% Si hypereutectic alloy. Journal of Alloys and Compounds, 2018, 742, 135-141.	5.5	5
10	Morphology of W fibers and kinetic undercooling in directionally solidified NiAlâ€“W eutectic alloy. Journal of Materials Science, 2018, 53, 12523-12533.	3.7	5
11	Coral-flake Co particles electrodeposited into the porous NiAl matrix. Materials Chemistry and Physics, 2020, 244, 122594.	4.0	5
12	Preparation, Properties, and Applications of Lamellar Ni3Si. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 3365-3370.	2.2	5
13	Electrochemically prepared Ni3Si with controllable areal capacity. Journal of Electroanalytical Chemistry, 2020, 865, 114146.	3.8	5
14	Alignment and Permeability of Al-7Si Alloy Directional Solidification with the Application of a Pulsed Magnetic Field. Materials and Manufacturing Processes, 2012, 27, 561-566.	4.7	4
15	Surface Porous Structure and Microhardness of Intermetallic NiAl Compound. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 3575-3583.	2.2	4
16	Electrochemical characterization and influencing factor analysis of the real surface area of lamellar Ni3Si electrode. Materials Chemistry and Physics, 2022, 281, 125957.	4.0	4
17	Theoretical and experimental study of liquid infiltration propelled by electromagnetic pressure. Applied Physics Letters, 2017, 111, .	3.3	3
18	Microstructure and microhardness of directionally solidified NiAlâ€“W eutectic alloy. Rare Metals, 2020, 39, 1174-1180.	7.1	3

#	Article	IF	Citations
19	Morphologies, Youngâ€™s Modulus and Resistivity of High Aspect Ratio Tungsten Nanowires. Materials, 2020, 13, 3749.	2.9	3
20	Electrochemically produced batteryâ€type Ni(OH) 2 /Ni 3 Si electrodes. Micro and Nano Letters, 2020, 15, 1051-1054.	1.3	2
21	Bibliometric analysis on self-assembly research in nanoscale. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	1
22	Structural and Electrochemical Properties of Ultra-Deep Ni₃Si Microchannels. Journal of the Electrochemical Society, 2022, 169, 043514.	2.9	1
23	Selective Etching of Sr-Modified and Directionally Solidified Industrial Alâ€“Si Eutectic Alloys for Fabricating Fibrous Eutectic Si. Metals, 2021, 11, 1974.	2.3	1
24	Capillary flows along microchannels in the presence of magnetic field. Indian Journal of Physics, 2019, 93, 213-219.	1.8	0
25	Structure and magnetic properties of ordered coralâ€globularâ€like Co particles prepared by electrodeposition. Materials Research Express, 2019, 6, 126128.	1.6	0
26	Effect of time-varying magnetic field on metal droplet profiles. Indian Journal of Physics, 2020, 94, 969-973.	1.8	0