Ling Qin

List of Publications by Year
in descending order

18 papers	205 citations	1040056 9 h-index	1058476 14 g-index
18 all docs	18 docs citations	18 times ranked	115 citing authors

#	Article	IF	Citations
1	New insights into sono-exfoliation mechanisms of graphite: In situ high-speed imaging studies and acoustic measurements. Materials Today, 2021, 49, 10-22.	14.2	36
2	Ultrasound cavitation induced nucleation in metal solidification: An analytical model and validation by real-time experiments. Ultrasonics Sonochemistry, 2021, 80, 105832.	8.2	20
3	The effect of the flow driven by a travelling magnetic field on solidification structure of Snâ€“Cd peritectic alloys. Journal of Crystal Growth, 2012, 356, 26-32.	1.5	17
4	Effects of convection patterns on freckle formation of directionally solidified Nickel-based superalloy casting with abruptly varying cross-sections. Journal of Crystal Growth, 2017, 466, 45-55.	1.5	17
5	A design of non-uniform thickness mould for controlling temperature gradient and S/L interface shape in directionally solidified superalloy blade. Materials and Design, 2017, 116, 565-576.	7.0	16
6	Investigation on local cooling in reducing freckles for directionally solidified superalloy specimens with abruptly varying cross-sections. Materials Characterization, 2017, 130, 139-148.	4.4	15
7	Investigation on freckles in directionally solidified CMSX-4 superalloy specimens with abrupt cross section variation. Journal of Alloys and Compounds, 2017, 691, 997-1004.	5.5	15
8	Ultrafast synchrotron X-ray imaging and multiphysics modelling of liquid phase fatigue exfoliation of graphite under ultrasound. Carbon, 2022, 186, 227-237.	10.3	14
9	Multiscale characterization of the 3D network structure of metal carbides in a Ni superalloy by synchrotron X-ray microtomography and ptychography. Scripta Materialia, 2021, 193, 71-76.	5.2	11
10	Effect of traveling magnetic field on freckle formation in directionally solidified CMSX-4 superalloy. Journal of Materials Processing Technology, 2019, 274, 116308.	6.3	9
11	Prediction of freckle formation in directionally solidified CMSX-4 superalloy. Materials Letters, 2018, 228, 281-284.	2.6	7
12	Characterization of the Convoluted 3D Intermetallic Phases in a Recycled Al Alloy by Synchrotron X-ray Tomography and Machine Learning. Acta Metallurgica Sinica (English Letters), 2022, 35, 115-123.	2.9	7
13	Microstructure evolution in directionally solidified Feâ€“Ni alloys under traveling magnetic field. Materials Letters, 2014, 115, 155-158.	2.6	6
14	Variation of Homogenization Pores during Homogenization for Nickelâ€Based Singleâ€Crystal Superalloys. Advanced Engineering Materials, 2021, 23, 2001547.	3.5	6
15	Microstructural development and room temperature tensile property of directionally solidified Tiâ€“47Al alloys by electromagnetic confinement and directional solidification. Journal of Materials Research, 2018, 33, 958-966.	2.6	4
16	Effects of Withdrawal Rate and Temperature Gradient on the Microstructure Evolution in Directionally Solidified NiAl-36Cr-6Mo Hypereutectic Alloy. Jom, 2014, 66, 1877-1885.	1.9	3
17	Effect of a traveling magnetic field on freckle formation of directionally solidified Pbâ€“Sn alloys. Journal of Materials Research, 2017, 32, 2045-2054.	2.6	2
18	The Suppression of the Natural Convection in the Directional Solidification Processing of Superalloy by the Introduction of the Traveling Magnetic Field: 2D and 3D Simulation. High Temperature Materials and Processes, 2016, 35, 881-893.	1.4	0