Yijiang Xu

List of Publications by Citations

12 papers	192 citations	6 h-index	12 g-index
12 ext. papers	241 ext. citations	4.1 avg, IF	3.41 L-index

#	Paper	IF	Citations
12	Heterogeneous nucleation and grain growth of inoculated aluminium alloys: An integrated study by in-situ X-radiography and numerical modelling. *Acta Materialia*, **2017**, 140, 224-239	8.4	76
11	Revealing the heterogeneous nucleation behavior of equiaxed grains of inoculated Al alloys during directional solidification. *Acta Materialia*, **2018**, 149, 312-325	8.4	59
10	Nanoparticle additions promote outstanding fracture toughness and fatigue strength in a cast Al□Cu alloy. *Materials and Design*, **2020**, 186, 108221	8.1	12
9	Revealing the nucleation kinetics of primary Si particles in hypereutectic Al□Si alloys under the influence of P inoculation. *Journal of Materials Science*, **2020**, 55, 15621-15635	4.3	11
8	Growth kinetics of primary Si particles in hypereutectic Al-Si alloys under the influence of P inoculation: Experiments and modelling. *Journal of Alloys and Compounds*, **2021**, 854, 155323	5.7	9
7	A Thermodynamic Study on the Effect of Solute on the Nucleation Driving Force, Solid□Liquid Interfacial Energy, and Grain Refinement of Al Alloys. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2018**, 49, 1770-1781	2.3	8
6	In-situ X-radiographic study of nucleation and growth behaviour of primary silicon particles during solidification of a hypereutectic Al-Si alloy. *Journal of Alloys and Compounds*, **2020**, 832, 154948	5.7	6
5	Modelling the Age-Hardening Precipitation by a Revised Langer and Schwartz Approach with Log-Normal Size Distribution. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2020**, 51, 4838-4852	2.3	5
4	Influence of Dendritic Growth of Equiaxed Grains on As-Cast Grain Size Prediction of Inoculated Aluminum Alloys. *Transactions of the Indian Institute of Metals*, **2015**, 68, 1013-1016	1.2	3
3	Numerical modelling and in-situ radiographic study of the grain nucleation and growth of inoculated aluminum alloys. *IOP Conference Series: Materials Science and Engineering*, **2015**, 84, 012090	0.4	3
2	Revealing the Heterogeneous Nucleation and Growth Behaviour of Grains in Inoculated Aluminium Alloys During Solidification. *Minerals, Metals and Materials Series*, **2019**, 1665-1675	0.3	
1	Effect of Inclusion and Filtration on Grain Refinement Efficiency of Aluminum Alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2022**, 53, 1000-1012	2.3	