Sai Tang

List of Publications by Year
in descending order

15	224	1307594 7	1058476 14
papers	citations	h-index	g-index

15	15	15	258
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Growth modes of grain boundary precipitate in aluminum alloys under different lattice misfits. Journal of Materials Science, 2022, 57, 2744-2757.	3.7	9
2	Molecular-Level Insights into the Nucleation Mechanism of One-Component Soft Matter Icosahedral Quasicrystal Studied by Phase-Field Crystal Simulations. Crystal Growth and Design, 2022, 22, 2637-2643.	3.0	4
3	Two-dimensional ordering governs the overpotential of Li intercalation and plating on graphene and its variants. Journal of Applied Physics, 2022, 131, .	2.5	1
4	The atomic scale mechanisms of the interaction between pore and grain boundary during sintering. Materials Today Communications, 2022, 32, 103970.	1.9	2
5	Atomic-scale study of compositional and structural evolution of early-stage grain boundary precipitation in Alâ€“Cu alloys through phase-field crystal simulation. Journal of Materials Science, 2021, 56, 12700-12715.	3.7	12
6	Phase-field crystal study on the influence of nanoscale intergranular structures on grain boundary segregation. Modelling and Simulation in Materials Science and Engineering, 2021, 29, 085009.	2.0	1
7	Phase-field simulation of solidification microstructure in Ni and Cuâ€“Ni alloy using the Wheeler, Boettinger and McFadden model coupled with the CALPHAD data. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2020, 68, 101691.	1.6	4
8	An atomic scale study of two-dimensional quasicrystal nucleation controlled by multiple length scale interactions. Soft Matter, 2020, 16, 5718-5726.	2.7	5
9	Competitive bcc and fcc crystal nucleation from non-equilibrium liquids studied by phase-field crystal simulation. Acta Materialia, 2017, 139, 196-204.	7.9	34
10	Phase-field-crystal investigation of the morphology of a steady-state dendrite tip on the atomic scale. Physical Review E, 2017, 95, 062803.	2.1	7
11	Kinetic Pathways and Mechanisms of Two-Step Nucleation in Crystallization. Journal of Physical Chemistry Letters, 2016, 7, 5008-5014.	4.6	50
12	Strain mapping in nanocrystalline grains simulated by phase field crystal model. Philosophical Magazine, 2015, 95, 973-984.	1.6	11
13	Phase-field-crystal simulation of nonequilibrium crystal growth. Physical Review E, 2014, 89, 012405.	2.1	38
14	Orientation selection process during the early stage of cubic dendrite growth: A phase-field crystal study. Acta Materialia, 2012, 60, 5501-5507.	7.9	45
15	A New Multiâ€Phase Field Model for the Electrochemical Corrosion of Aluminum Alloys. Advanced Theory and Simulations, 0, , 2200299.	2.8	1