

Michael Greenwood

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

16
papers

675
citations

12
h-index

16
g-index

16
ext. papers

759
ext. citations

4.3
avg, IF

3.79
L-index

#	Paper	IF	Citations
16	Free energy functionals for efficient phase field crystal modeling of structural phase transformations. <i>Physical Review Letters</i> , 2010 , 105, 045702	7.4	136
15	Phase-field-crystal methodology for modeling of structural transformations. <i>Physical Review E</i> , 2011 , 83, 031601	2.4	86
14	Modeling structural transformations in binary alloys with phase field crystals. <i>Physical Review B</i> , 2011 , 84,	3.3	85
13	MULTISCALE MODELING OF SOLIDIFICATION: PHASE-FIELD METHODS TO ADAPTIVE MESH REFINEMENT. <i>International Journal of Modern Physics B</i> , 2005 , 19, 4525-4565	1.1	70
12	Adaptive mesh computation of polycrystalline pattern formation using a renormalization-group reduction of the phase-field crystal model. <i>Physical Review E</i> , 2007 , 76, 056706	2.4	66
11	Crossover scaling of wavelength selection in directional solidification of binary alloys. <i>Physical Review Letters</i> , 2004 , 93, 246101	7.4	56
10	Multicomponent phase-field crystal model for structural transformations in metal alloys. <i>Physical Review B</i> , 2013 , 87,	3.3	46
9	Quantitative 3D phase field modelling of solidification using next-generation adaptive mesh refinement. <i>Computational Materials Science</i> , 2018 , 142, 153-171	3.2	27
8	Phase field crystal model of solute drag. <i>Acta Materialia</i> , 2012 , 60, 5752-5761	8.4	26
7	Competition between surface energy and elastic anisotropies in the growth of coherent solid-state dendrites. <i>Acta Materialia</i> , 2009 , 57, 2613-2623	8.4	24
6	Morphology of monolayer films on quasicrystalline surfaces from the phase field crystal model. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 135002	1.8	18
5	Quantitative phase-field modeling of solidification in binary alloys with nonlinear phase coexistence curves. <i>Physical Review B</i> , 2008 , 77,	3.3	18
4	Phase-field simulations of velocity selection in rapidly solidified binary alloys. <i>Physical Review E</i> , 2006 , 74, 031602	2.4	11
3	Characterizing the microstructural effect of build direction during solidification of laser-powder bed fusion of Al-Si alloys in the dilute limit: A phase-field study. <i>Acta Materialia</i> , 2021 , 214, 116983	8.4	4
2	Phase separation and its relationship with thermoelectric properties in tin-substituted magnesium silicide synthesized from melt. <i>Scripta Materialia</i> , 2019 , 166, 128-133	5.6	2
1	Phase-Field Simulation of Solidification Behavior of AlSi10Mg Alloys Manufactured Through Direct Metal Laser Sintering. <i>Minerals, Metals and Materials Series</i> , 2020 , 299-307	0.3	