

Michael Greenwood

List of Publications by Year in descending order

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16
papers

824
citations

686830

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996533

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docs citations

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times ranked

437
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Free Energy Functionals for Efficient Phase Field Crystal Modeling of Structural Phase Transformations. <i>Physical Review Letters</i> , 2010, 105, 045702. | 2.9 | 170 |
| 2 | Phase-field-crystal methodology for modeling of structural transformations. <i>Physical Review E</i> , 2011, 83, 031601. | 0.8 | 107 |
| 3 | Modeling structural transformations in binary alloys with phase field crystals. <i>Physical Review B</i> , 2011, 84, . | 1.1 | 94 |
| 4 | MULTISCALE MODELING OF SOLIDIFICATION: PHASE-FIELD METHODS TO ADAPTIVE MESH REFINEMENT. <i>International Journal of Modern Physics B</i> , 2005, 19, 4525-4565. | 1.0 | 81 |
| 5 | 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. | 0.8 | 72 |
| 6 | Crossover Scaling of Wavelength Selection in Directional Solidification of Binary Alloys. <i>Physical Review Letters</i> , 2004, 93, 246101. | 2.9 | 62 |
| 7 | Multicomponent phase-field crystal model for structural transformations in metal alloys. <i>Physical Review B</i> , 2013, 87, . | 1.1 | 56 |
| 8 | Quantitative 3D phase field modelling of solidification using next-generation adaptive mesh refinement. <i>Computational Materials Science</i> , 2018, 142, 153-171. | 1.4 | 45 |
| 9 | Phase field crystal model of solute drag. <i>Acta Materialia</i> , 2012, 60, 5752-5761. | 3.8 | 30 |
| 10 | 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. | 3.8 | 29 |
| 11 | Competition between surface energy and elastic anisotropies in the growth of coherent solid-state dendrites. <i>Acta Materialia</i> , 2009, 57, 2613-2623. | 3.8 | 26 |
| 12 | Quantitative phase-field modeling of solidification in binary alloys with nonlinear phase coexistence curves. <i>Physical Review B</i> , 2008, 77, . | 1.1 | 20 |
| 13 | Morphology of monolayer films on quasicrystalline surfaces from the phase field crystal model. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 135002. | 0.7 | 19 |
| 14 | Phase-field simulations of velocity selection in rapidly solidified binary alloys. <i>Physical Review E</i> , 2006, 74, 031602. | 0.8 | 11 |
| 15 | Phase separation and its relationship with thermoelectric properties in tin-substituted magnesium silicide synthesized from melt. <i>Scripta Materialia</i> , 2019, 166, 128-133. | 2.6 | 2 |
| 16 | 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 | 0 |