Wei Jiang

List of Publications by Year
in descending order

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15 papers	321 citations	840119 11 h-index	996533 15 g-index
15 all docs	15 docs citations	15 times ranked	188 citing authors

#	Article	IF	Citations
1	Phase field approach for simulating solid-state dewetting problems. Acta Materialia, 2012, 60, 5578-5592.	3.8	79
2	A parametric finite element method for solid-state dewetting problems with anisotropic surface energies. Journal of Computational Physics, 2017, 330, 380-400.	1.9	36
3	Sharp interface model for solid-state dewetting problems with weakly anisotropic surface energies. Physical Review B, 2015, 91, .	1.1	31
4	Solid-state dewetting and island morphologies in strongly anisotropic materials. Scripta Materialia, 2016, 115, 123-127.	2.6	28
5	Stable Equilibria of Anisotropic Particles on Substrates: A Generalized Winterbottom Construction. SIAM Journal on Applied Mathematics, 2017, 77, 2093-2118.	0.8	21
6	A Parametric Finite Element Method for Solid-State Dewetting Problems in Three Dimensions. SIAM Journal of Scientific Computing, 2020, 42, B327-B352.	1.3	21
7	Sharp-interface approach for simulating solid-state dewetting in two dimensions: A Cahnâ€“Hoffman Î¾-vector formulation. Physica D: Nonlinear Phenomena, 2019, 390, 69-83.	1.3	18
8	Sharp-Interface Model for Simulating Solid-State Dewetting in Three Dimensions. SIAM Journal on Applied Mathematics, 2020, 80, 1654-1677.	0.8	18
9	A perimeter-decreasing and area-conserving algorithm for surface diffusion flow of curves. Journal of Computational Physics, 2021, 443, 110531.	1.9	16
10	Application of Onsager's variational principle to the dynamics of a solid toroidal island on a substrate. Acta Materialia, 2019, 163, 154-160.	3.8	14
11	An energy-stable parametric finite element method for simulating solid-state dewetting. IMA Journal of Numerical Analysis, 2021, 41, 2026-2055.	1.5	13
12	An unconditionally energy stable scheme for simulating wrinkling phenomena of elastic thin films on a compliant substrate. Journal of Computational Physics, 2019, 388, 123-143.	1.9	8
13	Solid-state dewetting on curved substrates. Physical Review Materials, 2018, 2, .	0.9	8
14	Triple junction drag effects during topological changes in the evolution of polycrystalline microstructures. Acta Materialia, 2017, 128, 345-350.	3.8	7
15	A numerical study of the wrinkling evolution of an elastic film on a viscous layer. Modelling and Simulation in Materials Science and Engineering, 2009, 17, 055010.	0.8	3