Quan Zhao

List of Publications by Year in descending order

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14	222	1039406	1058022
papers	citations	9	14
		h-index	g-index

14	14	14	108
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Solid-state dewetting and island morphologies in strongly anisotropic materials. Scripta Materialia, 2016, 115, 123-127.	2.6	28
3	A Structure-Preserving Parametric Finite Element Method for Surface Diffusion. SIAM Journal on Numerical Analysis, 2021, 59, 2775-2799.	1.1	23
4	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
5	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
6	Sharp-Interface Model for Simulating Solid-State Dewetting in Three Dimensions. SIAM Journal on Applied Mathematics, 2020, 80, 1654-1677.	0.8	18
7	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
8	An energy-stable parametric finite element method for simulating solid-state dewetting. IMA Journal of Numerical Analysis, 2021, 41, 2026-2055.	1.5	13
9	A sharp-interface model and its numerical approximation for solid-state dewetting with axisymmetric geometry. Journal of Computational and Applied Mathematics, 2019, 361, 144-156.	1.1	11
10	Volume-preserving parametric finite element methods for axisymmetric geometric evolution equations. Journal of Computational Physics, 2022, 460, 111180.	1.9	10
11	A thermodynamically consistent model and its conservative numerical approximation for moving contact lines with soluble surfactants. Computer Methods in Applied Mechanics and Engineering, 2021, 385, 114033.	3.4	9
12	An energy-stable finite element method for the simulation of moving contact lines in two-phase flows. Journal of Computational Physics, 2020, 417, 109582.	1.9	8
13	Triple junction drag effects during topological changes in the evolution of polycrystalline microstructures. Acta Materialia, 2017, 128, 345-350.	3.8	7
14	A finite element method for electrowetting on dielectric. Journal of Computational Physics, 2021, 429, 109998.	1.9	6