

Yuan Gao

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Projection Method for Droplet Dynamics on Groove-Textured Surface with Merging and Splitting. SIAM Journal of Scientific Computing, 2022, 44, B310-B338.	2.8	3
2	Regularity and monotonicity for solutions to a continuum model of epitaxial growth with nonlocal elastic effects. Advances in Calculus of Variations, 2021, .	1.2	0
3	Existence and uniqueness of bounded stable solutions to the Peierls-Nabarro model for curved dislocations. Calculus of Variations and Partial Differential Equations, 2021, 60, 1.	1.7	6
4	Gradient flow formulation and second order numerical method for motion by mean curvature and contact line dynamics on rough surface. Interfaces and Free Boundaries, 2021, 23, 103-158.	0.8	3
5	Surfactant-dependent contact line dynamics and droplet spreading on textured substrates: Derivations and computations. Physica D: Nonlinear Phenomena, 2021, 428, 133067.	2.8	3
6	Analysis of a fourth-order exponential PDE arising from a crystal surface jump process with Metropolis-type transition rates. Pure and Applied Analysis, 2021, 3, 595-612.	1.1	3
7	Analysis of a continuum theory for broken bond crystal surface models with evaporation and deposition effects. Nonlinearity, 2020, 33, 3816-3845.	1.4	7
8	Long time behavior of dynamic solution to Peierls-Nabarro dislocation model. Methods and Applications of Analysis, 2020, 27, 161-198.	0.5	3
9	A note on parametric Bayesian inference via gradient flows. Annals of Mathematical Sciences and Applications, 2020, 5, 261-282.	0.4	6
10	Global strong solution with BV derivatives to singular solid-on-solid model with exponential nonlinearity. Journal of Differential Equations, 2019, 267, 4429-4447.	2.2	8
11	Gradient flow approach to an exponential thin film equation: global existence and latent singularity. ESAIM - Control, Optimisation and Calculus of Variations, 2019, 25, 49.	1.3	12
12	Maximal monotone operator theory and its applications to thin film equation in epitaxial growth on vicinal surface. Calculus of Variations and Partial Differential Equations, 2018, 57, 1.	1.7	8
13	Continuum Limit of a Mesoscopic Model with Elasticity of Step Motion on Vicinal Surfaces. Journal of Nonlinear Science, 2017, 27, 873-926.	2.1	10
14	Weak Solution of a Continuum Model For Vicinal Surface in The Attachment-Detachment-Limited Regime. SIAM Journal on Mathematical Analysis, 2017, 49, 1705-1731.	1.9	12
15	Global existence of solutions to a tear film model with locally elevated evaporation rates. Physica D: Nonlinear Phenomena, 2017, 350, 13-25.	2.8	3