# Yuan Gao

## List of Publications by Year
in descending order

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|---|---|---|---|
| **15**<br>papers | **87**<br>citations | 1478505<br>**6**<br>h-index | 1474206<br>**9**<br>g-index |
| **15**<br>all docs | **15**<br>docs citations | **15**<br>times ranked | **21**<br>citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | Analysis of a continuum theory for broken bond crystal surface models with evaporation and deposition effects. Nonlinearity, 2020, 33, 3816-3845. | 1.4 | 7 |
| 7 | 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 |
| 8 | A note on parametric Bayesian inference via gradient flows. Annals of Mathematical Sciences and Applications, 2020, 5, 261-282. | 0.4 | 6 |
| 9 | 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 |
| 10 | 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 |
| 11 | Surfactant-dependent contact line dynamics and droplet spreading on textured substrates: Derivations and computations. Physica D: Nonlinear Phenomena, 2021, 428, 133067. | 2.8 | 3 |
| 12 | Long time behavior of dynamic solution to Peierls–Nabarro dislocation model. Methods and Applications of Analysis, 2020, 27, 161-198. | 0.5 | 3 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |