

Jiang Yang

List of Publications by Year in descending order

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22
papers

1,622
citations

471509

17
h-index

677142

22
g-index

22
all docs

22
docs citations

22
times ranked

453
citing authors

#	ARTICLE	IF	CITATIONS
1	The scalar auxiliary variable (SAV) approach for gradient flows. <i>Journal of Computational Physics</i> , 2018, 353, 407-416.	3.8	530
2	A New Class of Efficient and Robust Energy Stable Schemes for Gradient Flows. <i>SIAM Review</i> , 2019, 61, 474-506.	9.5	326
3	On the maximum principle preserving schemes for the generalized Allen-Cahn equation. <i>Communications in Mathematical Sciences</i> , 2016, 14, 1517-1534.	1.0	110
4	Numerical Analysis of Fully Discretized Crank-Nicolson Scheme for Fractional-in-Space Allen-Cahn Equations. <i>Journal of Scientific Computing</i> , 2017, 72, 1214-1231.	2.3	101
5	Stabilized Crank-Nicolson/Adams-Bashforth Schemes for Phase Field Models. <i>East Asian Journal on Applied Mathematics</i> , 2013, 3, 59-80.	0.9	82
6	Long Time Numerical Simulations for Phase-Field Problems Using \mathbb{P} -Adaptive Spectral Deferred Correction Methods. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, A271-A294.	2.8	70
7	Nonlinear stability of the implicit-explicit methods for the Allen-Cahn equation. <i>Inverse Problems and Imaging</i> , 2013, 7, 679-695.	1.1	61
8	Time-Fractional Allen-Cahn Equations: Analysis and Numerical Methods. <i>Journal of Scientific Computing</i> , 2020, 85, 1.	2.3	49
9	Asymptotically Compatible Fourier Spectral Approximations of Nonlocal Allen-Cahn Equations. <i>SIAM Journal on Numerical Analysis</i> , 2016, 54, 1899-1919.	2.3	46
10	Arbitrarily High-Order Exponential Cut-Off Methods for Preserving Maximum Principle of Parabolic Equations. <i>SIAM Journal of Scientific Computing</i> , 2020, 42, A3957-A3978.	2.8	39
11	Maximum bound principle preserving integrating factor Runge-Kutta methods for semilinear parabolic equations. <i>Journal of Computational Physics</i> , 2021, 439, 110405.	3.8	37
12	Fast and accurate implementation of Fourier spectral approximations of nonlocal diffusion operators and its applications. <i>Journal of Computational Physics</i> , 2017, 332, 118-134.	3.8	27
13	Energy-decreasing exponential time differencing Runge-Kutta methods for phase-field models. <i>Journal of Computational Physics</i> , 2022, 454, 110943.	3.8	27
14	Artificial Boundary Conditions for Nonlocal Heat Equations on Unbounded Domain. <i>Communications in Computational Physics</i> , 2017, 21, 16-39.	1.7	25
15	Asymptotically compatible discretization of multidimensional nonlocal diffusion models and approximation of nonlocal Green's functions. <i>IMA Journal of Numerical Analysis</i> , 2019, 39, 607-625.	2.9	23
16	Analysis of a nonlocal-in-time parabolic equation. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2017, 22, 339-368.	0.9	22
17	Robust a posteriori stress analysis for quadrature collocation approximations of nonlocal models via nonlocal gradients. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 310, 605-627.	6.6	18
18	Arbitrarily High-Order Maximum Bound Preserving Schemes with Cut-off Postprocessing for Allen-Cahn Equations. <i>Journal of Scientific Computing</i> , 2022, 90, .	2.3	17

#	ARTICLE	IF	CITATIONS
19	A new variational approach based on level-set function for convex hull problem with outliers. <i>Inverse Problems and Imaging</i> , 2021, 15, 315-338.	1.1	5
20	A Variational Convex Hull Algorithm. <i>Lecture Notes in Computer Science</i> , 2019, , 224-235.	1.3	3
21	Asymptotic Analysis on the Sharp Interface Limit of the Time-Fractional Cahn–Hilliard Equation. <i>SIAM Journal on Applied Mathematics</i> , 2022, 82, 773-792.	1.8	3
22	A provably efficient monotonic-decreasing algorithm for shape optimization in Stokes flows by phase-field approaches. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 398, 115195.	6.6	1