List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Stabilization parameter analysis of a second-order linear numerical scheme for the nonlocal Cahn–Hilliard equation. IMA Journal of Numerical Analysis, 2023, 43, 1089-1114.	1.5	7
2	Two-Phase Segmentation for Intensity Inhomogeneous Images by the AllenCahn Local Binary Fitting Model. SIAM Journal of Scientific Computing, 2022, 44, B177-B196.	1.3	7
3	Stabilized Exponential-SAV Schemes Preserving Energy Dissipation Law and Maximum Bound Principle for The Allen–Cahn Type Equations. Journal of Scientific Computing, 2022, 92, .	1.1	17
4	Strong approximation of monotone stochastic partial differential equations driven by multiplicative noise. Stochastics and Partial Differential Equations: Analysis and Computations, 2021, 9, 559-602.	0.5	5
5	A meshless collocation method with a global refinement strategy for reaction-diffusion systems on evolving domains. Discrete and Continuous Dynamical Systems - Series B, 2021, .	0.5	0
6	A Novel Lattice Boltzmann Model for Fourth Order Nonlinear Partial Differential Equations. Journal of Scientific Computing, 2021, 87, 1.	1.1	2
7	Maximum bound principle preserving integrating factor Runge–Kutta methods for semilinear parabolic equations. Journal of Computational Physics, 2021, 439, 110405.	1.9	37
8	Maximum Bound Principles for a Class of Semilinear Parabolic Equations and Exponential Time-Differencing Schemes. SIAM Review, 2021, 63, 317-359.	4.2	107
9	Convergence analysis for a stabilized linear semi-implicit numerical scheme for the nonlocal Cahn–Hilliard equation. Mathematics of Computation, 2021, 90, 171-188.	1.1	35
10	Strong approximation of monotone stochastic partial differential equations driven by white noise. IMA Journal of Numerical Analysis, 2020, 40, 1074-1093.	1.5	26
11	Thermodynamic modeling of <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">altimg="si1.svg"><mml:mrow><mml:msub><mml:mtext>CO</mml:mtext><mml:mn>2</mml:mn>solubility in saline water using NVT flash with the cubic-Plus-association equation of state. Fluid Phase Equilibria, 2020, 520, 112657.</mml:msub></mml:mrow></mml:math>	•>1.4	row>
12	Unconditionally stable, efficient and robust numerical simulation of isothermal compositional grading by gravity. Journal of Computational Science, 2020, 43, 101109.	1.5	2
13	Efficient numerical methods for phase-field equations. Scientia Sinica Mathematica, 2020, 50, 775.	0.1	14
14	A multiple-relaxation-time lattice Boltzmann method with Beam-Warming scheme for a coupled chemotaxis-fluid model. Electronic Research Archive, 2020, 28, 1207-1225.	0.4	3
15	A Third Order Exponential Time Differencing Numerical Scheme for No-Slope-Selection Epitaxial Thin Film Model with Energy Stability. Journal of Scientific Computing, 2019, 81, 154-185.	1.1	74
16	Thermodynamic-consistent multiple-relaxation-time lattice Boltzmann equation model for two-phase hydrocarbon fluids with Peng-Robinson equation of state. International Journal of Heat and Mass Transfer, 2019, 141, 1216-1226.	2.5	10
17	Maximum Principle Preserving Exponential Time Differencing Schemes for the Nonlocal AllenCahn Equation. SIAM Journal on Numerical Analysis, 2019, 57, 875-898.	1.1	141
18	Resolving Knudsen layer by high-order moment expansion. Continuum Mechanics and Thermodynamics, 2019, 31, 1313-1337.	1.4	5

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19	A New Multi-Component Diffuse Interface Model with Peng-Robinson Equation of State and its Scalar Auxiliary Variable (SAV) Approach. Communications in Computational Physics, 2019, 26, 1597-1616.	0.7	17
20	Energy stability and error estimates of exponential time differencing schemes for the epitaxial growth model without slope selection. Mathematics of Computation, 2018, 87, 1859-1885.	1.1	72
21	Stabilized linear semi-implicit schemes for the nonlocal Cahn–Hilliard equation. Journal of Computational Physics, 2018, 363, 39-54.	1.9	73
22	Mass conservative lattice Boltzmann scheme for a three-dimensional diffuse interface model with Peng-Robinson equation of state. Physical Review E, 2018, 98, 023306.	0.8	6
23	A Componentwise Convex Splitting Scheme for Diffuse Interface Models with Van der Waals and PengRobinson Equations of State. SIAM Journal of Scientific Computing, 2017, 39, B1-B28.	1.3	36
24	Convergence of a Fast Explicit Operator Splitting Method for the Epitaxial Growth Model with Slope Selection. SIAM Journal on Numerical Analysis, 2017, 55, 265-285.	1.1	39
25	Gradient bounds for a thin film epitaxy equation. Journal of Differential Equations, 2017, 262, 1720-1746.	1.1	12
26	On Second Order Semi-implicit Fourier Spectral Methods for 2D Cahn–Hilliard Equations. Journal of Scientific Computing, 2017, 70, 301-341.	1.1	100
27	Stability and Convergence Analysis of Second-Order Schemes for a Diffuse Interface Model with Peng-Robinson Equation of State. Journal of Computational Mathematics, 2017, 35, 737-765.	0.2	6
28	On the stabilization size of semi-implicit Fourier-spectral methods for 3D Cahn–Hilliard equations. Communications in Mathematical Sciences, 2017, 15, 1489-1506.	0.5	26
29	Modeling Pore-scale Oil-gas Systems Using Gradient Theory with Peng-robinson Equation of State. Procedia Computer Science, 2016, 80, 1364-1373.	1.2	2
30	Acceleration for microflow simulations of high-order moment models by using lower-order model correction. Journal of Computational Physics, 2016, 327, 225-244.	1.9	2
31	Extended Hydrodynamic Models and Multigrid Solver of a Silicon Diode Simulation. Communications in Computational Physics, 2016, 20, 551-582.	0.7	3
32	An unconditionally energy stable finite difference scheme for a stochastic Cahn-Hilliard equation. Science China Mathematics, 2016, 59, 1815-1834.	0.8	20
33	Characterizing the Stabilization Size for Semi-Implicit Fourier-Spectral Method to Phase Field Equations. SIAM Journal on Numerical Analysis, 2016, 54, 1653-1681.	1.1	85
34	Error Analysis of a Mixed Finite Element Method for the Molecular Beam Epitaxy Model. SIAM Journal on Numerical Analysis, 2015, 53, 184-205.	1.1	16
35	Stability and convergence of second-order schemes for the nonlinear epitaxial growth model without slope selection. Mathematics of Computation, 2014, 84, 653-674.	1.1	39
36	Two-Phase Fluid Simulation Using a Diffuse Interface Model with PengRobinson Equation of State. SIAM Journal of Scientific Computing, 2014, 36, B708-B728.	1.3	69

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37	Adaptive moving grid methods for two-phase flow in porous media. Journal of Computational and Applied Mathematics, 2014, 265, 139-150.	1.1	14
38	Dimension-Reduced Hyperbolic Moment Method for the Boltzmann Equation with BGK-Type Collision. Communications in Computational Physics, 2014, 15, 1368-1406.	0.7	17
39	C O-Nonconforming Triangular Prism Elements for the Three-Dimensional Fourth Order Elliptic Problem. Journal of Scientific Computing, 2013, 55, 645-658.	1.1	9
40	\$\$C^{0}\$\$ -nonconforming tetrahedral and cuboid elements for the three-dimensional fourth order elliptic problem. Numerische Mathematik, 2013, 124, 99-119.	0.9	23
41	Uniformly convergent H(div)-conforming rectangular elements for Darcy-Stokes problem. Science China Mathematics, 2013, 56, 2723-2736.	0.8	11
42	Globally hyperbolic regularized moment method with applications to microflow simulation. Computers and Fluids, 2013, 81, 95-109.	1.3	20
43	An adaptive time-stepping strategy for solving the phase field crystal model. Journal of Computational Physics, 2013, 249, 204-215.	1.9	83
44	The Sensitivity Analysis for the Flow Past Obstacles Problem with Respect to the Reynolds Number. Advances in Applied Mathematics and Mechanics, 2012, 4, 21-35.	0.7	4
45	An Adaptive Time-Stepping Strategy for the Cahn-Hilliard Equation. Communications in Computational Physics, 2012, 11, 1261-1278.	0.7	77
46	NR\$xx\$ Simulation of Microflows with Shakhov Model. SIAM Journal of Scientific Computing, 2012, 34, A339-A369.	1.3	27
47	A Fast Preconditioned Iterative Algorithm for the Electromagnetic Scattering from a Large Cavity. Journal of Scientific Computing, 2012, 53, 435-450.	1.1	10
48	The stability and convergence of two linearized finite difference schemes for the nonlinear epitaxial growth model. Numerical Methods for Partial Differential Equations, 2012, 28, 1893-1915.	2.0	30
49	Moving Finite Element Simulations for Reaction-Diffusion Systems. Advances in Applied Mathematics and Mechanics, 2012, 4, 365-381.	0.7	16
50	An Adaptive Time-Stepping Strategy for the Molecular Beam Epitaxy Models. SIAM Journal of Scientific Computing, 2011, 33, 1395-1414.	1.3	143
51	Superconvergence and Extrapolation Analysis of a Nonconforming Mixed Finite Element Approximation for Time-Harmonic Maxwell's Equations. Journal of Scientific Computing, 2011, 46, 1-19.	1.1	41
52	Extrapolation of Mixed Finite Element Approximations for the Maxwell Eigenvalue Problem. Numerical Mathematics, 2011, 4, 379-395.	0.6	4
53	High Order Compact Finite Difference Schemes for the Helmholtz Equation with Discontinuous Coefficients. Journal of Computational Mathematics, 2011, 29, 324-340.	0.2	29
54	A Fast High Order Method for Electromagnetic Scattering by Large Open Cavities. Journal of Computational Mathematics, 2011, 29, 287-304.	0.2	25

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55	Multisymplectic Preissman scheme for the time-domain Maxwell's equations. Journal of Mathematical Physics, 2009, 50, 033510.	0.5	14
56	A high order compact MAC finite difference scheme for the Stokes equations: Augmented variable approach. Journal of Computational Physics, 2008, 227, 8177-8190.	1.9	34
57	A domain decomposition solver for acoustic scattering by elastic objects in layered media. Journal of Computational Physics, 2008, 227, 8685-8698.	1.9	21
58	A Finite Difference Method and Analysis for 2D Nonlinear Poisson–Boltzmann Equations. Journal of Scientific Computing, 2007, 30, 61-81.	1.1	11