Yibao li

List of Publications by Year in descending order

179 papers	4,936 citations	101543 36 h-index	123424 61 g-index
179 all docs	179 docs citations	179 times ranked	1837 citing authors

#	Article	IF	Citations
1	Phase-Field Models for Multi-Component Fluid Flows. Communications in Computational Physics, 2012, 12, 613-661.	1.7	390
2	Conservative multigrid methods for Cahnâ€“Hilliard fluids. Journal of Computational Physics, 2004, 193, 511-543.	3.8	248
3	A continuous surface tension force formulation for diffuse-interface models. Journal of Computational Physics, 2005, 204, 784-804.	3.8	221
4	Solving the regularized, strongly anisotropic Cahnâ€“Hilliard equation by an adaptive nonlinear multigrid method. Journal of Computational Physics, 2007, 226, 414-446.	3.8	162
5	Phase field modeling and simulation of three-phase flows. Interfaces and Free Boundaries, 2005, 7, 435-466.	0.8	142
6	Physical, mathematical, and numerical derivations of the Cahnâ€“Hilliard equation. Computational Materials Science, 2014, 81, 216-225.	3.0	113
7	Phase field computations for ternary fluid flows. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 4779-4788.	6.6	112
8	An unconditionally gradient stable numerical method for solving the Allenâ€“Cahn equation. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 1791-1803.	2.6	108
9	An unconditionally stable hybrid numerical method for solving the Allenâ€“Cahn equation. Computers and Mathematics With Applications, 2010, 60, 1591-1606.	2.7	106
10	A conservative Allenâ€“Cahn equation with a spaceâ€“time dependent Lagrange multiplier. International Journal of Engineering Science, 2014, 84, 11-17.	5.0	94
11	A generalized continuous surface tension force formulation for phase-field models for multi-component immiscible fluid flows. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 3105-3112.	6.6	80
12	Two-dimensional Kelvinâ€“Helmholtz instabilities of multi-component fluids. European Journal of Mechanics, B/Fluids, 2015, 49, 77-88.	2.5	79
13	A numerical method for the Cahnâ€“Hilliard equation with a variable mobility. Communications in Nonlinear Science and Numerical Simulation, 2007, 12, 1560-1571.	3.3	77
14	Multiphase image segmentation using a phase-field model. Computers and Mathematics With Applications, 2011, 62, 737-745.	2.7	75
15	Conservative multigrid methods for ternary Cahn-Hilliard systems. Communications in Mathematical Sciences, 2004, 2, 53-77.	1.0	70
16	Conservative Allenâ€“Cahnâ€“Navierâ€“Stokes system for incompressible two-phase fluid flows. Computers and Fluids, 2017, 156, 239-246.	2.5	66
17	Accurate contact angle boundary conditions for the Cahnâ€“Hilliard equations. Computers and Fluids, 2011, 44, 178-186.	2.5	58
18	Dynamics of a compound droplet in shear flow. International Journal of Heat and Fluid Flow, 2014, 50, 63-71.	2.4	54

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19	A phase-field approach for minimizing the area of triply periodic surfaces with volume constraint. Computer Physics Communications, 2010, 181, 1037-1046.	7.5	53
20	A fast, robust, and accurate operator splitting method for phase-field simulations of crystal growth. Journal of Crystal Growth, 2011, 321, 176-182.	1.5	52
21	Numerical investigation of falling bacterial plumes caused by bioconvection in a three-dimensional chamber. European Journal of Mechanics, B/Fluids, 2015, 52, 120-130.	2.5	52
22	Fast local image inpainting based on the Allenâ€“Cahn model. , 2015, 37, 65-74.		51
23	On the long time simulation of the Rayleighâ€“Taylor instability. International Journal for Numerical Methods in Engineering, 2011, 85, 1633-1647.	2.8	50
24	A phase-field fluid modeling and computation with interfacial profile correction term. Communications in Nonlinear Science and Numerical Simulation, 2016, 30, 84-100.	3.3	50
25	An efficient and stable compact fourth-order finite difference scheme for the phase field crystal equation. Computer Methods in Applied Mechanics and Engineering, 2017, 319, 194-216.	6.6	50
26	A practically unconditionally gradient stable scheme for the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si24.gif" display="inline" overflow="scroll"><mml:mi>N</mml:mi></mml:math>-component Cahnâ€“Hilliard system. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 1009-1019.	2.6	47
27	A conservative numerical method for the Cahnâ€“Hilliard equation with Dirichlet boundary conditions in complex domains. Computers and Mathematics With Applications, 2013, 65, 102-115.	2.7	46
28	Basic Principles and Practical Applications of the Cahnâ€“Hilliard Equation. Mathematical Problems in Engineering, 2016, 2016, 1-11.	1.1	45
29	Multi-component Cahnâ€“Hilliard system with different boundary conditions in complex domains. Journal of Computational Physics, 2016, 323, 1-16.	3.8	45
30	Comparison study of the conservative Allenâ€“Cahn and the Cahnâ€“Hilliard equations. Mathematics and Computers in Simulation, 2016, 119, 35-56.	4.4	45
31	An unconditionally energy-stable second-order time-accurate scheme for the Cahnâ€“Hilliard equation on surfaces. Communications in Nonlinear Science and Numerical Simulation, 2017, 53, 213-227.	3.3	45
32	A compact fourth-order finite difference scheme for the three-dimensional Cahnâ€“Hilliard equation. Computer Physics Communications, 2016, 200, 108-116.	7.5	44
33	A second-order accurate non-linear difference scheme for the N -component Cahnâ€“Hilliard system. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 4787-4799.	2.6	43
34	A comparison study of the Boussinesq and the variable density models on buoyancy-driven flows. Journal of Engineering Mathematics, 2012, 75, 15-27.	1.2	42
35	Regularized Dirac delta functions for phase field models. International Journal for Numerical Methods in Engineering, 2012, 91, 269-288.	2.8	40
36	Efficient numerical schemes with unconditional energy stabilities for the modified phase field crystal equation. Advances in Computational Mathematics, 2019, 45, 1551-1580.	1.6	40

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37	An efficient numerical method for simulating multiphase flows using a diffuse interface model. Physica A: Statistical Mechanics and Its Applications, 2015, 423, 33-50.	2.6	39
38	An explicit hybrid finite difference scheme for the Allenâ€“Cahn equation. Journal of Computational and Applied Mathematics, 2018, 340, 247-255.	2.0	36
39	Phase-field simulations of crystal growth with adaptive mesh refinement. International Journal of Heat and Mass Transfer, 2012, 55, 7926-7932.	4.8	35
40	Computationally efficient adaptive time step method for the Cahnâ€“Hilliard equation. Computers and Mathematics With Applications, 2017, 73, 1855-1864.	2.7	35
41	Three-dimensional volume reconstruction from slice data using phase-field models. Computer Vision and Image Understanding, 2015, 137, 115-124.	4.7	34
42	A second-order accurate, unconditionally energy stable numerical scheme for binary fluid flows on arbitrarily curved surfaces. Computer Methods in Applied Mechanics and Engineering, 2021, 384, 113987.	6.6	32
43	A simple and efficient finite difference method for the phase-field crystal equation on curved surfaces. Computer Methods in Applied Mechanics and Engineering, 2016, 307, 32-43.	6.6	31
44	An unconditionally stable second-order accurate method for systems of Cahnâ€“Hilliard equations. Communications in Nonlinear Science and Numerical Simulation, 2020, 87, 105276.	3.3	31
45	Simple and efficient volume merging method for triply periodic minimal structures. Computer Physics Communications, 2021, 264, 107956.	7.5	31
46	A conservative numerical method for the Cahnâ€“Hilliard equation in complex domains. Journal of Computational Physics, 2011, 230, 7441-7455.	3.8	30
47	A new phase-field model for a waterâ€“oil-surfactant system. Applied Mathematics and Computation, 2014, 229, 422-432.	2.2	28
48	An efficient linear second order unconditionally stable direct discretization method for the phase-field crystal equation on surfaces. Applied Mathematical Modelling, 2019, 67, 477-490.	4.2	28
49	A fourth-order spatial accurate and practically stable compact scheme for the Cahnâ€“Hilliard equation. Physica A: Statistical Mechanics and Its Applications, 2014, 409, 17-28.	2.6	27
50	A finite difference method for a conservative Allenâ€“Cahn equation on non-flat surfaces. Journal of Computational Physics, 2017, 334, 170-181.	3.8	27
51	An unconditionally stable hybrid method for image segmentation. Applied Numerical Mathematics, 2014, 82, 32-43.	2.1	26
52	A variant of stabilized-scalar auxiliary variable (S-SAV) approach for a modified phase-field surfactant model. Computer Physics Communications, 2021, 261, 107825.	7.5	26
53	A robust and efficient fingerprint image restoration method based on a phase-field model. Pattern Recognition, 2022, 123, 108405.	8.1	26
54	Motion by mean curvature of curves on surfaces using the Allenâ€“Cahn equation. International Journal of Engineering Science, 2015, 97, 126-132.	5.0	25

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55	An Unconditionally Gradient Stable Adaptive Mesh Refinement for the Cahn-Hilliard Equation. Journal of the Korean Physical Society, 2008, 53, 672-679.	0.7	25
56	Three-dimensional volume-conserving immersed boundary model for two-phase fluid flows. Computer Methods in Applied Mechanics and Engineering, 2013, 257, 36-46.	6.6	24
57	Enhanced neuronal activity in mouse motor cortex with microbubblesâ€™ oscillations by transcranial focused ultrasound stimulation. Ultrasonics Sonochemistry, 2019, 59, 104745.	8.2	24
58	A fractional step lattice Boltzmann model for two-phase flow with large density differences. International Journal of Heat and Mass Transfer, 2019, 138, 1128-1141.	4.8	24
59	A second order unconditionally stable scheme for the modified phase field crystal model with elastic interaction and stochastic noise effect. Computer Methods in Applied Mechanics and Engineering, 2020, 363, 112795.	6.6	24
60	An efficient and accurate numerical algorithm for the vector-valued Allenâ€“Cahn equations. Computer Physics Communications, 2012, 183, 2107-2115.	7.5	23
61	An unconditionally stable numerical method for bimodal image segmentation. Applied Mathematics and Computation, 2012, 219, 3083-3090.	2.2	23
62	Microphase separation patterns in diblock copolymers on curved surfaces using a nonlocal Cahn-Hilliard equation. European Physical Journal E, 2015, 38, 117.	1.6	23
63	A new conservative vector-valued Allenâ€“Cahn equation and its fast numerical method. Computer Physics Communications, 2017, 221, 102-108.	7.5	23
64	Level Set, Phase-Field, and Immersed Boundary Methods for Two-Phase Fluid Flows. Journal of Fluids Engineering, Transactions of the ASME, 2014, 136, .	1.5	22
65	Comparison study of numerical methods for solving the Allenâ€“Cahn equation. Computational Materials Science, 2016, 111, 131-136.	3.0	22
66	First- and second-order unconditionally stable direct discretization methods for multi-component Cahnâ€“Hilliard system on surfaces. Journal of Computational and Applied Mathematics, 2022, 401, 113778.	2.0	22
67	Numerical analysis of energy-minimizing wavelengths of equilibrium states for diblock copolymers. Current Applied Physics, 2014, 14, 1263-1272.	2.4	21
68	Volume preserving immersed boundary methods for twoâ€phase fluid flows. International Journal for Numerical Methods in Fluids, 2012, 69, 842-858.	1.6	20
69	Fast and efficient narrow volume reconstruction from scattered data. Pattern Recognition, 2015, 48, 4057-4069.	8.1	20
70	An unconditional stable compact fourth-order finite difference scheme for three dimensional Allenâ€“Cahn equation. Computers and Mathematics With Applications, 2019, 77, 1042-1054.	2.7	20
71	A phase-field model and its efficient numerical method for two-phase flows on arbitrarily curved surfaces in 3D space. Computer Methods in Applied Mechanics and Engineering, 2020, 372, 113382.	6.6	20
72	The susceptible-unidentified infected-confirmed (SUC) epidemic model for estimating unidentified infected population for COVID-19. Chaos, Solitons and Fractals, 2020, 139, 110090.	5.1	20

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73	Linear and fully decoupled scheme for a hydrodynamics coupled phase-field surfactant system based on a multiple auxiliary variables approach. Journal of Computational Physics, 2022, 452, 110909.	3.8	20
74	Surface embedding narrow volume reconstruction from unorganized points. Computer Vision and Image Understanding, 2014, 121, 100-107.	4.7	19
75	A practical and efficient numerical method for the Cahnâ€“Hilliard equation in complex domains. Communications in Nonlinear Science and Numerical Simulation, 2019, 73, 217-228.	3.3	19
76	A comparison study of phase-field models for an immiscible binary mixture with surfactant. European Physical Journal B, 2012, 85, 1.	1.5	18
77	A parallel multigrid method of the Cahnâ€“Hilliard equation. Computational Materials Science, 2013, 71, 89-96.	3.0	18
78	Numerical simulation of the zebra pattern formation on a three-dimensional model. Physica A: Statistical Mechanics and Its Applications, 2017, 475, 106-116.	2.6	18
79	Direct Discretization Method for the Cahnâ€“Hilliard Equation on an Evolving Surface. Journal of Scientific Computing, 2018, 77, 1147-1163.	2.3	18
80	Numerical study of the ternary Cahnâ€“Hilliard fluids by using an efficient modified scalar auxiliary variable approach. Communications in Nonlinear Science and Numerical Simulation, 2021, 102, 105923.	3.3	18
81	Phase-field simulations of crystal growth in a two-dimensional cavity flow. Computer Physics Communications, 2017, 216, 84-94.	7.5	17
82	Buoyancy-driven mixing of multi-component fluids in two-dimensional tilted channels. European Journal of Mechanics, B/Fluids, 2013, 42, 37-46.	2.5	16
83	A hybrid FEM for solving the Allenâ€“Cahn equation. Applied Mathematics and Computation, 2014, 244, 606-612.	2.2	16
84	An improved scalar auxiliary variable (SAV) approach for the phase-field surfactant model. Applied Mathematical Modelling, 2021, 90, 11-29.	4.2	16
85	Efficient second-order unconditionally stable numerical schemes for the modified phase field crystal model with long-range interaction. Journal of Computational and Applied Mathematics, 2021, 389, 113335.	2.0	16
86	A phase field-based systematic multiscale topology optimization method for porous structures design. Journal of Computational Physics, 2022, 466, 111383.	3.8	16
87	Adaptive mesh refinement for simulation of thin film flows. Meccanica, 2014, 49, 239-252.	2.0	15
88	Time-fractional Schamelâ€“KdV equation for dust-ion-acoustic waves in pair-ion plasma with trapped electrons and opposite polarity dust grains. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 1031-1036.	2.1	15
89	An immersed boundary method for simulating a single axisymmetric cell growth and division. Journal of Mathematical Biology, 2012, 65, 653-675.	1.9	14
90	Multicomponent volume reconstruction from slice data using a modified multicomponent Cahnâ€“Hilliard system. Pattern Recognition, 2019, 93, 124-133.	8.1	14

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91	Comparison study on the different dynamics between the Allenâ€“Cahn and the Cahnâ€“Hilliard equations. Computers and Mathematics With Applications, 2019, 77, 311-322.	2.7	14
92	Pattern formation in reactionâ€“diffusion systems on evolving surfaces. Computers and Mathematics With Applications, 2020, 80, 2019-2028.	2.7	14
93	An efficient volume repairing method by using a modified Allen-Cahn equation. Pattern Recognition, 2020, 107, 107478.	8.1	14
94	Triply periodic minimal surface using a modified Allenâ€“Cahn equation. Applied Mathematics and Computation, 2017, 295, 84-94.	2.2	13
95	A benchmark problem for the two- and three-dimensional Cahnâ€“Hilliard equations. Communications in Nonlinear Science and Numerical Simulation, 2018, 61, 149-159.	3.3	13
96	Efficient 3D Volume Reconstruction from a Point Cloud Using a Phase-Field Method. Mathematical Problems in Engineering, 2018, 2018, 1-9.	1.1	13
97	Numerical simulation of Swiftâ€“Hohenberg equation by the fourth-order compact scheme. Computational and Applied Mathematics, 2019, 38, 1.	2.2	13
98	An unconditionally stable scheme for the Allenâ€“Cahn equation with high-order polynomial free energy. Communications in Nonlinear Science and Numerical Simulation, 2021, 95, 105658.	3.3	13
99	A fast and practical adaptive finite difference method for the conservative Allenâ€“Cahn model in two-phase flow system. International Journal of Multiphase Flow, 2021, 137, 103561.	3.4	13
100	A Conservative Numerical Method for the Cahnâ€“Hilliard Equation with Generalized Mobilities on Curved Surfaces in Three-Dimensional Space. Communications in Computational Physics, 2020, 27, 412-430.	1.7	13
101	Unconditionally energy stable schemes for fluid-based topology optimization. Communications in Nonlinear Science and Numerical Simulation, 2022, 111, 106433.	3.3	13
102	Surface reconstruction from unorganized points with l0 gradient minimization. Computer Vision and Image Understanding, 2018, 169, 108-118.	4.7	12
103	Fast and Accurate Smoothing Method Using A Modified Allenâ€“Cahn Equation. CAD Computer Aided Design, 2020, 120, 102804.	2.7	12
104	Shape transformation using the modified Allenâ€“Cahn equation. Applied Mathematics Letters, 2020, 107, 106487.	2.7	12
105	Effect of confinement on droplet deformation in shear flow. International Journal of Computational Fluid Dynamics, 2013, 27, 317-331.	1.2	11
106	Energy-minimizing wavelengths of equilibrium states for diblock copolymers in the hex-cylinder phase. Current Applied Physics, 2015, 15, 799-804.	2.4	11
107	Fast and accurate adaptive finite difference method for dendritic growth. Computer Physics Communications, 2019, 236, 95-103.	7.5	11
108	A conservative Allenâ€“Cahn equation with a curvature-dependent Lagrange multiplier. Applied Mathematics Letters, 2022, 126, 107838.	2.7	11

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109	AN AUGMENTED PROJECTION METHOD FOR THE INCOMPRESSIBLE NAVIER-STOKES EQUATIONS IN ARBITRARY DOMAINS. International Journal of Computational Methods, 2005, 02, 201-212.	1.3	10
110	A simple and efficient outflow boundary condition for the incompressible Navierâ€“Stokes equations. Engineering Applications of Computational Fluid Mechanics, 2017, 11, 69-85.	3.1	10
111	Mathematical Model and Numerical Simulation for Tissue Growth on Bioscaffolds. Applied Sciences (Switzerland), 2019, 9, 4058.	2.5	10
112	Linear, Second-Order Accurate, and Energy Stable Scheme for a Ternary Cahnâ€“Hilliard Model by Using Lagrange Multiplier Approach. Acta Applicandae Mathematicae, 2021, 172, 1.	1.0	10
113	Energy dissipationâ€“preserving time-dependent auxiliary variable method for the phase-field crystal and the Swiftâ€“Hohenberg models. Numerical Algorithms, 2022, 89, 1865-1894.	1.9	10
114	The stabilized-trigonometric scalar auxiliary variable approach for gradient flows and its efficient schemes. Journal of Engineering Mathematics, 2021, 129, 1.	1.2	10
115	Modeling and simulation of multi-component immiscible flows based on a modified Cahnâ€“Hilliard equation. European Journal of Mechanics, B/Fluids, 2022, 95, 194-204.	2.5	10
116	Totally decoupled implicitâ€“explicit linear scheme with corrected energy dissipation law for the phase-field fluid vesicle model. Computer Methods in Applied Mechanics and Engineering, 2022, 399, 115330.	6.6	10
117	A practical numerical scheme for the ternary Cahnâ€“Hilliard system with a logarithmic free energy. Physica A: Statistical Mechanics and Its Applications, 2016, 442, 510-522.	2.6	9
118	A phase-field method for two-phase fluid flow in arbitrary domains. Computers and Mathematics With Applications, 2020, 79, 1857-1874.	2.7	9
119	A novel Cahnâ€“Hilliardâ€“Navierâ€“Stokes model with a nonstandard variable mobility for two-phase incompressible fluid flow. Computers and Fluids, 2020, 213, 104755.	2.5	9
120	A stable second-order BDF scheme for the three-dimensional Cahnâ€“Hilliardâ€“Heleâ€“Shaw system. Advances in Computational Mathematics, 2021, 47, 1.	1.6	9
121	Nonlinear Multigrid Implementation for the Two-Dimensional Cahnâ€“Hilliard Equation. Mathematics, 2020, 8, 97.	2.2	9
122	An explicit conservative Saulâ€™yev scheme for the Cahnâ€“Hilliard equation. International Journal of Mechanical Sciences, 2022, 217, 106985.	6.7	9
123	Energy-stable method for the Cahnâ€“Hilliard equation in arbitrary domains. International Journal of Mechanical Sciences, 2022, 228, 107489.	6.7	9
124	Three-dimensional simulations of the cell growth and cytokinesis using the immersed boundary method. Mathematical Biosciences, 2016, 271, 118-127.	1.9	8
125	A multigrid solution for the Cahnâ€“Hilliard equation on nonuniform grids. Applied Mathematics and Computation, 2017, 293, 320-333.	2.2	8
126	A practical finite difference scheme for the Navierâ€“Stokes equation on curved surfaces in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msup><mml:mrow><mml:mi mathvariant="double-struck">R</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msup></mml:math>. Journal of Computational Physics, 2020, 411, 109403.	3.8	8

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127	Modeling and simulation of droplet evaporation using a modified Cahnâ€“Hilliard equation. Applied Mathematics and Computation, 2021, 390, 125591.	2.2	8
128	High-order time-accurate, efficient, and structure-preserving numerical methods for the conservative Swiftâ€“Hohenberg model. Computers and Mathematics With Applications, 2021, 102, 160-174.	2.7	8
129	Phase-field model and its splitting numerical scheme for tissue growth. Applied Numerical Mathematics, 2017, 117, 22-35.	2.1	7
130	Curve and Surface Smoothing Using a Modified Cahn-Hilliard Equation. Mathematical Problems in Engineering, 2017, 2017, 1-9.	1.1	7
131	Numerical Simulation of Dendritic Pattern Formation in an Isotropic Crystal Growth Model on Curved Surfaces. Symmetry, 2020, 12, 1155.	2.2	7
132	An unconditionally energy-stable second-order time-accurate numerical scheme for the coupled Cahnâ€“Hilliard system in copolymer/homopolymer mixtures. Computational Materials Science, 2021, 200, 110809.	3.0	7
133	Phase-field modeling and computer simulation of the coffee-ring effect. Theoretical and Computational Fluid Dynamics, 2020, 34, 679-692.	2.2	6
134	The Navierâ€“Stokesâ€“Cahnâ€“Hilliard model with a high-order polynomial free energy. Acta Mechanica, 2020, 231, 2425-2437.	2.1	6
135	Side wall boundary effect on the Rayleighâ€“Taylor instability. European Journal of Mechanics, B/Fluids, 2021, 85, 361-374.	2.5	6
136	A practical adaptive grid method for the Allenâ€“Cahn equation. Physica A: Statistical Mechanics and Its Applications, 2021, 573, 125975.	2.6	6
137	Unconditionally energy stable second-order numerical scheme for the Allenâ€“Cahn equation with a high-order polynomial free energy. Advances in Difference Equations, 2021, 2021, .	3.5	6
138	Numerical study of incompressible binary fluids on 3D curved surfaces based on the conservative Allenâ€“Cahnâ€“Navierâ€“Stokes model. Computers and Fluids, 2021, 228, 105094.	2.5	6
139	Numerical studies of the fingering phenomena for the thin film equation. International Journal for Numerical Methods in Fluids, 2011, 67, 1358-1372.	1.6	5
140	A Phase-Field Model for Articular Cartilage Regeneration in Degradable Scaffolds. Bulletin of Mathematical Biology, 2013, 75, 2389-2409.	1.9	5
141	Effect of surface conditions on blast wave propagation. Journal of Mechanical Science and Technology, 2016, 30, 3907-3915.	1.5	5
142	An Immersed Boundary Method for a Contractile Elastic Ring in a Three-Dimensional Newtonian Fluid. Journal of Scientific Computing, 2016, 67, 909-925.	2.3	5
143	A conservative finite difference scheme for the N-component Cahnâ€“Hilliard system on curved surfaces in 3D. Journal of Engineering Mathematics, 2019, 119, 149-166.	1.2	5
144	Pinning boundary conditions for phase-field models. Communications in Nonlinear Science and Numerical Simulation, 2020, 82, 105060.	3.3	5

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145	An efficient nonlinear polynomial color characterization method based on interrelations of color spaces. Color Research and Application, 2020, 45, 1023-1039.	1.6	5
146	Second-Order Unconditionally Stable Direct Methods for Allenâ€“Cahn and Conservative Allenâ€“Cahn Equations on Surfaces. Mathematics, 2020, 8, 1486.	2.2	5
147	Porous Three-Dimensional Scaffold Generation for 3D Printing. Mathematics, 2020, 8, 946.	2.2	5
148	Three-dimensional volume reconstruction from multi-slice data using a shape transformation. Computers and Mathematics With Applications, 2022, 113, 52-58.	2.7	5
149	Conservative Allenâ€“Cahn equation with a nonstandard variable mobility. Acta Mechanica, 2020, 231, 561-576.	2.1	4
150	An Accurate and Practical Explicit Hybrid Method for the Chanâ€“Vese Image Segmentation Model. Mathematics, 2020, 8, 1173.	2.2	4
151	Numerical simulations of the dynamics of axisymmetric compound liquid threads with a phase-field model. European Journal of Mechanics, B/Fluids, 2021, 89, 203-216.	2.5	4
152	First and second order unconditionally energy stable schemes for topology optimization based on phase field method. Applied Mathematics and Computation, 2021, 405, 126267.	2.2	4
153	Benchmark Problems for the Numerical Schemes of the Phase-Field Equations. Discrete Dynamics in Nature and Society, 2022, 2022, 1-10.	0.9	4
154	A hybrid numerical method for the phaseâ€field model of fluid vesicles in threeâ€dimensional space. International Journal for Numerical Methods in Fluids, 2015, 78, 63-75.	1.6	3
155	Verification of Convergence Rates of Numerical Solutions for Parabolic Equations. Mathematical Problems in Engineering, 2019, 2019, 1-10.	1.1	3
156	Mathematical modeling and computer simulation of the three-dimensional pattern formation of honeycombs. Scientific Reports, 2019, 9, 20364.	3.3	3
157	Automatic Binary Data Classification Using a Modified Allenâ€“Cahn Equation. International Journal of Pattern Recognition and Artificial Intelligence, 2021, 35, 2150013.	1.2	3
158	A HYBRID METHOD FOR HIGHER-ORDER NONLINEAR DIFFUSION EQUATIONS. Communications of the Korean Mathematical Society, 2005, 20, 179-193.	0.2	3
159	An unconditionally stable splitting method for the Allenâ€“Cahn equation with logarithmic free energy. Journal of Engineering Mathematics, 2022, 132, 1.	1.2	3
160	A simple and explicit numerical method for the phase-field model for diblock copolymer melts. Computational Materials Science, 2022, 205, 111192.	3.0	3
161	Original variables based energy-stable time-dependent auxiliary variable method for the incompressible Navierâ€“Stokes equation. Computers and Fluids, 2022, 240, 105432.	2.5	3
162	Numerical simulation and analysis of the Swiftâ€“Hohenberg equation by the stabilized Lagrange multiplier approach. Computational and Applied Mathematics, 2022, 41, 1.	2.2	3

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163	Motion by Mean Curvature with Constraints Using a Modified Allenâ€“Cahn Equation. Journal of Scientific Computing, 2022, 92, .	2.3	3
164	Numerical Study of Periodic Traveling Wave Solutions for the Predatorâ€“Prey Model with Landscape Features. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550117.	1.7	2
165	An Explicit Hybrid Method for the Nonlocal Allenâ€“Cahn Equation. Symmetry, 2020, 12, 1218.	2.2	2
166	Periodic travelling wave solutions for a reaction-diffusion system on landscape fitted domains. Chaos, Solitons and Fractals, 2020, 139, 110300.	5.1	2
167	A Simple Benchmark Problem for the Numerical Methods of the Cahnâ€“Hilliard Equation. Discrete Dynamics in Nature and Society, 2021, 2021, 1-8.	0.9	2
168	Linear and energy stable schemes for the Swiftâ€“Hohenberg equation with quadratic-cubic nonlinearity based on a modified scalar auxiliary variable approach. Journal of Engineering Mathematics, 2021, 128, 1.	1.2	2
169	Mathematical Modeling and Simulation of Antibubble Dynamics. Numerical Mathematics, 2020, 13, 81-98.	1.3	2
170	Fast and Efficient Numerical Finite Difference Method for Multiphase Image Segmentation. Mathematical Problems in Engineering, 2021, 2021, 1-23.	1.1	2
171	Effective time step analysis for the Allenâ€“Cahn equation with a highâ€order polynomial free energy. International Journal for Numerical Methods in Engineering, 0, , .	2.8	2
172	Numerical investigations on self-similar solutions of the nonlinear diffusion equation. European Journal of Mechanics, B/Fluids, 2013, 42, 30-36.	2.5	1
173	Reduction in vacuum phenomenon for the triple junction in the ternary Cahnâ€“Hilliard model. Acta Mechanica, 2021, 232, 4485.	2.1	1
174	A Projection Method for the Conservative Discretizations of Parabolic Partial Differential Equations. Journal of Scientific Computing, 2018, 75, 332-349.	2.3	0
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