

Junseok Kim

List of Publications by Citations

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224
papers

3,577
citations

31
h-index

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238
ext. papers

4,533
ext. citations

3
avg, IF

6.39
L-index

#	Paper	IF	Citations
224	Phase-Field Models for Multi-Component Fluid Flows. <i>Communications in Computational Physics</i> , 2012 , 12, 613-661	2.4	300
223	Conservative multigrid methods for Cahn-Hilliard fluids. <i>Journal of Computational Physics</i> , 2004 , 193, 511-543	4.1	210
222	A continuous surface tension force formulation for diffuse-interface models. <i>Journal of Computational Physics</i> , 2005 , 204, 784-804	4.1	175
221	Solving the regularized, strongly anisotropic Cahn-Hilliard equation by an adaptive nonlinear multigrid method. <i>Journal of Computational Physics</i> , 2007 , 226, 414-446	4.1	138
220	Phase field modeling and simulation of three-phase flows. <i>Interfaces and Free Boundaries</i> , 2005 , 435-466	0.7	120
219	Phase field computations for ternary fluid flows. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007 , 196, 4779-4788	5.7	79
218	Physical, mathematical, and numerical derivations of the Cahn-Hilliard equation. <i>Computational Materials Science</i> , 2014 , 81, 216-225	3.2	75
217	An unconditionally stable hybrid numerical method for solving the Allen-Cahn equation. <i>Computers and Mathematics With Applications</i> , 2010 , 60, 1591-1606	2.7	75
216	An unconditionally gradient stable numerical method for solving the Allen-Cahn equation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009 , 388, 1791-1803	3.3	68
215	A numerical method for the Cahn-Hilliard equation with a variable mobility. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2007 , 12, 1560-1571	3.7	62
214	Multiphase image segmentation using a phase-field model. <i>Computers and Mathematics With Applications</i> , 2011 , 62, 737-745	2.7	60
213	A generalized continuous surface tension force formulation for phase-field models for multi-component immiscible fluid flows. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009 , 198, 3105-3112	5.7	59
212	A conservative Allen-Cahn equation with a space-time dependent Lagrange multiplier. <i>International Journal of Engineering Science</i> , 2014 , 84, 11-17	5.7	58
211	Conservative multigrid methods for ternary Cahn-Hilliard systems. <i>Communications in Mathematical Sciences</i> , 2004 , 2, 53-77	1	57
210	Two-dimensional Kelvin-Helmholtz instabilities of multi-component fluids. <i>European Journal of Mechanics, B/Fluids</i> , 2015 , 49, 77-88	2.4	56
209	Analysis of the impact of COVID-19 on the correlations between crude oil and agricultural futures. <i>Chaos, Solitons and Fractals</i> , 2020 , 136, 109896	9.3	50
208	Accurate contact angle boundary conditions for the Cahn-Hilliard equations. <i>Computers and Fluids</i> , 2011 , 44, 178-186	2.8	46

207	Dynamics of a compound droplet in shear flow. <i>International Journal of Heat and Fluid Flow</i> , 2014 , 50, 63-71	2.4	42
206	Conservative Allen-Cahn-Navier-Stokes system for incompressible two-phase fluid flows. <i>Computers and Fluids</i> , 2017 , 156, 239-246	2.8	41
205	On the long time simulation of the Rayleigh-Taylor instability. <i>International Journal for Numerical Methods in Engineering</i> , 2011 , 85, 1633-1647	2.4	41
204	A practically unconditionally gradient stable scheme for the N-component Cahn-Hilliard system. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 1009-1019	3.3	39
203	A compact fourth-order finite difference scheme for the three-dimensional Cahn-Hilliard equation. <i>Computer Physics Communications</i> , 2016 , 200, 108-116	4.2	38
202	A phase-field approach for minimizing the area of triply periodic surfaces with volume constraint. <i>Computer Physics Communications</i> , 2010 , 181, 1037-1046	4.2	38
201	A fast, robust, and accurate operator splitting method for phase-field simulations of crystal growth. <i>Journal of Crystal Growth</i> , 2011 , 321, 176-182	1.6	37
200	Numerical simulation of the three-dimensional Rayleigh-Taylor instability. <i>Computers and Mathematics With Applications</i> , 2013 , 66, 1466-1474	2.7	36
199	A second-order accurate non-linear difference scheme for the N-component Cahn-Hilliard system. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008 , 387, 4787-4799	3.3	36
198	A phase-field fluid modeling and computation with interfacial profile correction term. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016 , 30, 84-100	3.7	35
197	Fast local image inpainting based on the Allen-Cahn model 2015 , 37, 65-74		35
196	Regularized Dirac delta functions for phase field models. <i>International Journal for Numerical Methods in Engineering</i> , 2012 , 91, 269-288	2.4	34
195	An unconditionally energy-stable second-order time-accurate scheme for the Cahn-Hilliard equation on surfaces. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017 , 53, 213-227	3.7	32
194	A conservative numerical method for the Cahn-Hilliard equation with Dirichlet boundary conditions in complex domains. <i>Computers and Mathematics With Applications</i> , 2013 , 65, 102-115	2.7	32
193	A diffuse-interface model for axisymmetric immiscible two-phase flow. <i>Applied Mathematics and Computation</i> , 2005 , 160, 589-606	2.7	30
192	Basic Principles and Practical Applications of the Cahn-Hilliard Equation. <i>Mathematical Problems in Engineering</i> , 2016 , 2016, 1-11	1.1	30
191	An efficient and stable compact fourth-order finite difference scheme for the phase field crystal equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017 , 319, 194-216	5.7	29
190	Phase-field simulations of crystal growth with adaptive mesh refinement. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 7926-7932	4.9	28

189	Finite Element Analysis of Schwarz P Surface Pore Geometries for Tissue-Engineered Scaffolds. <i>Mathematical Problems in Engineering</i> , 2012 , 2012, 1-13	1.1	28
188	Comparison study of the conservative Allen-Cahn and the Cahn-Hilliard equations. <i>Mathematics and Computers in Simulation</i> , 2016 , 119, 35-56	3.3	26
187	Three-dimensional volume reconstruction from slice data using phase-field models. <i>Computer Vision and Image Understanding</i> , 2015 , 137, 115-124	4.3	26
186	Numerical investigation of falling bacterial plumes caused by bioconvection in a three-dimensional chamber. <i>European Journal of Mechanics, B/Fluids</i> , 2015 , 52, 120-130	2.4	26
185	A comparison study of the Boussinesq and the variable density models on buoyancy-driven flows. <i>Journal of Engineering Mathematics</i> , 2012 , 75, 15-27	1.2	26
184	An efficient numerical method for simulating multiphase flows using a diffuse interface model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015 , 423, 33-50	3.3	24
183	Multi-component Cahn-Hilliard system with different boundary conditions in complex domains. <i>Journal of Computational Physics</i> , 2016 , 323, 1-16	4.1	24
182	Computationally efficient adaptive time step method for the Cahn-Hilliard equation. <i>Computers and Mathematics With Applications</i> , 2017 , 73, 1855-1864	2.7	23
181	Chondroitinase ABC I-mediated enhancement of oncolytic virus spread and anti tumor efficacy: a mathematical model. <i>PLoS ONE</i> , 2014 , 9, e102499	3.7	23
180	A comparison study of ADI and operator splitting methods on option pricing models. <i>Journal of Computational and Applied Mathematics</i> , 2013 , 247, 162-171	2.4	22
179	An Unconditionally Gradient Stable Adaptive Mesh Refinement for the Cahn-Hilliard Equation. <i>Journal of the Korean Physical Society</i> , 2008 , 53, 672-679	0.6	22
178	An explicit hybrid finite difference scheme for the Allen-Cahn equation. <i>Journal of Computational and Applied Mathematics</i> , 2018 , 340, 247-255	2.4	21
177	An unconditionally stable hybrid method for image segmentation. <i>Applied Numerical Mathematics</i> , 2014 , 82, 32-43	2.5	21
176	An unconditionally stable numerical method for bimodal image segmentation. <i>Applied Mathematics and Computation</i> , 2012 , 219, 3083-3090	2.7	21
175	Three-dimensional volume-conserving immersed boundary model for two-phase fluid flows. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013 , 257, 36-46	5.7	20
174	Microphase separation patterns in diblock copolymers on curved surfaces using a nonlocal Cahn-Hilliard equation. <i>European Physical Journal E</i> , 2015 , 38, 117	1.5	20
173	A simple and efficient finite difference method for the phase-field crystal equation on curved surfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016 , 307, 32-43	5.7	20
172	A new phase-field model for a water-oil-surfactant system. <i>Applied Mathematics and Computation</i> , 2014 , 229, 422-432	2.7	19

171	A conservative numerical method for the Cahn-Hilliard equation in complex domains. <i>Journal of Computational Physics</i> , 2011 , 230, 7441-7455	4.1	19
170	Volume preserving immersed boundary methods for two-phase fluid flows. <i>International Journal for Numerical Methods in Fluids</i> , 2012 , 69, 842-858	1.9	18
169	Comparison study of numerical methods for solving the Allen-Cahn equation. <i>Computational Materials Science</i> , 2016 , 111, 131-136	3.2	17
168	An efficient and accurate numerical algorithm for the vector-valued Allen-Cahn equations. <i>Computer Physics Communications</i> , 2012 , 183, 2107-2115	4.2	17
167	A finite difference method for a conservative Allen-Cahn equation on non-flat surfaces. <i>Journal of Computational Physics</i> , 2017 , 334, 170-181	4.1	16
166	Motion by mean curvature of curves on surfaces using the Allen-Cahn equation. <i>International Journal of Engineering Science</i> , 2015 , 97, 126-132	5.7	16
165	Numerical analysis of energy-minimizing wavelengths of equilibrium states for diblock copolymers. <i>Current Applied Physics</i> , 2014 , 14, 1263-1272	2.6	16
164	Level Set, Phase-Field, and Immersed Boundary Methods for Two-Phase Fluid Flows. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2014 , 136,	2.1	16
163	A numerical method for the ternary Cahn-Hilliard system with a degenerate mobility. <i>Applied Numerical Mathematics</i> , 2009 , 59, 1029-1042	2.5	16
162	An unconditionally stable second-order accurate method for systems of Cahn-Hilliard equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020 , 87, 105276	3.7	15
161	The susceptible-unidentified infected-confirmed (SUC) epidemic model for estimating unidentified infected population for COVID-19. <i>Chaos, Solitons and Fractals</i> , 2020 , 139, 110090	9.3	15
160	An efficient linear second order unconditionally stable direct discretization method for the phase-field crystal equation on surfaces. <i>Applied Mathematical Modelling</i> , 2019 , 67, 477-490	4.5	15
159	Fast and efficient narrow volume reconstruction from scattered data. <i>Pattern Recognition</i> , 2015 , 48, 4057-4069	7.7	14
158	A fourth-order spatial accurate and practically stable compact scheme for the Cahn-Hilliard equation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014 , 409, 17-28	3.3	14
157	An immersed boundary method for simulating a single axisymmetric cell growth and division. <i>Journal of Mathematical Biology</i> , 2012 , 65, 653-75	2	14
156	Surface embedding narrow volume reconstruction from unorganized points. <i>Computer Vision and Image Understanding</i> , 2014 , 121, 100-107	4.3	13
155	A parallel multigrid method of the Cahn-Hilliard equation. <i>Computational Materials Science</i> , 2013 , 71, 89-96	3.2	13
154	Numerical simulations of phase separation dynamics in a water-oil-surfactant system. <i>Journal of Colloid and Interface Science</i> , 2006 , 303, 272-9	9.3	13

153	AN ACCURATE AND EFFICIENT NUMERICAL METHOD FOR BLACK-SCHOLES EQUATIONS. <i>Communications of the Korean Mathematical Society</i> , 2009 , 24, 617-628		13
152	A new conservative vector-valued Allen-Cahn equation and its fast numerical method. <i>Computer Physics Communications</i> , 2017 , 221, 102-108	4.2	12
151	Adaptive mesh refinement for simulation of thin film flows. <i>Meccanica</i> , 2014 , 49, 239-252	2.1	12
150	Numerical simulation of the zebra pattern formation on a three-dimensional model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017 , 475, 106-116	3.3	11
149	Phase-field simulations of crystal growth in a two-dimensional cavity flow. <i>Computer Physics Communications</i> , 2017 , 216, 84-94	4.2	11
148	A practical finite difference method for the three-dimensional Black-Scholes equation. <i>European Journal of Operational Research</i> , 2016 , 252, 183-190	5.6	11
147	A hybrid FEM for solving the Allen-Cahn equation. <i>Applied Mathematics and Computation</i> , 2014 , 244, 606-612	2.7	11
146	Buoyancy-driven mixing of multi-component fluids in two-dimensional tilted channels. <i>European Journal of Mechanics, B/Fluids</i> , 2013 , 42, 37-46	2.4	11
145	Multicomponent volume reconstruction from slice data using a modified multicomponent Cahn-Hilliard system. <i>Pattern Recognition</i> , 2019 , 93, 124-133	7.7	10
144	A benchmark problem for the two- and three-dimensional Cahn-Hilliard equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018 , 61, 149-159	3.7	10
143	Direct Discretization Method for the Cahn-Hilliard Equation on an Evolving Surface. <i>Journal of Scientific Computing</i> , 2018 , 77, 1147-1163	2.3	10
142	Mathematical model and numerical simulation of the cell growth in scaffolds. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012 , 11, 677-88	3.8	10
141	Mathematical model and its fast numerical method for the tumor growth. <i>Mathematical Biosciences and Engineering</i> , 2015 , 12, 1173-87	2.1	10
140	A practical and efficient numerical method for the Cahn-Hilliard equation in complex domains. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019 , 73, 217-228	3.7	10
139	Finite Difference Method for the Black-Scholes Equation Without Boundary Conditions. <i>Computational Economics</i> , 2018 , 51, 961-972	1.4	9
138	Effect of confinement on droplet deformation in shear flow. <i>International Journal of Computational Fluid Dynamics</i> , 2013 , 27, 317-331	1.2	9
137	Fourier-Spectral Method for the Phase-Field Equations. <i>Mathematics</i> , 2020 , 8, 1385	2.3	9
136	A variant of stabilized-scalar auxiliary variable (S-SAV) approach for a modified phase-field surfactant model. <i>Computer Physics Communications</i> , 2021 , 261, 107825	4.2	9

135	An improved scalar auxiliary variable (SAV) approach for the phase-field surfactant model. <i>Applied Mathematical Modelling</i> , 2021 , 90, 11-29	4.5	9
134	Predicting Stock Price Trend Using MACD Optimized by Historical Volatility. <i>Mathematical Problems in Engineering</i> , 2018 , 2018, 1-12	1.1	9
133	Multifractal detrended cross-correlation analysis between respiratory diseases and haze in South Korea. <i>Chaos, Solitons and Fractals</i> , 2020 , 135, 109781	9.3	8
132	Modeling and simulation of the hexagonal pattern formation of honeycombs by the immersed boundary method. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018 , 62, 61-77	3.7	8
131	Phase-field simulation of Rayleigh instability on a fibre. <i>International Journal of Multiphase Flow</i> , 2018 , 105, 84-90	3.6	8
130	Mathematical Model and Numerical Simulation for Tissue Growth on Bioscaffolds. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4058	2.6	8
129	Mean curvature flow by the Allen-Cahn equation. <i>European Journal of Applied Mathematics</i> , 2015 , 26, 535-559	1	8
128	Energy-minimizing wavelengths of equilibrium states for diblock copolymers in the hex-cylinder phase. <i>Current Applied Physics</i> , 2015 , 15, 799-804	2.6	8
127	A Phase-Field Model for the Pinchoff of Liquid-Liquid Jets. <i>Journal of the Korean Physical Society</i> , 2009 , 55, 1451-1460	0.6	8
126	A Hybrid Monte Carlo and Finite Difference Method for Option Pricing. <i>Computational Economics</i> , 2019 , 53, 111-124	1.4	8
125	CROSS-CORRELATIONS BETWEEN BACTERIAL FOODBORNE DISEASES AND METEOROLOGICAL FACTORS BASED ON MF-DCCA: A CASE IN SOUTH KOREA. <i>Fractals</i> , 2020 , 28, 2050046	3.2	7
124	A phase-field model and its efficient numerical method for two-phase flows on arbitrarily curved surfaces in 3D space. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 372, 113382	5.7	7
123	An efficient numerical method for evolving microstructures with strong elastic inhomogeneity. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2015 , 23, 045007	2	6
122	Curve and Surface Smoothing Using a Modified Cahn-Hilliard Equation. <i>Mathematical Problems in Engineering</i> , 2017 , 2017, 1-9	1.1	6
121	Surface reconstruction from unorganized points with l0 gradient minimization. <i>Computer Vision and Image Understanding</i> , 2018 , 169, 108-118	4.3	6
120	Three-dimensional simulations of the cell growth and cytokinesis using the immersed boundary method. <i>Mathematical Biosciences</i> , 2016 , 271, 118-27	3.9	6
119	A practical numerical scheme for the ternary Cahn-Hilliard system with a logarithmic free energy. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 442, 510-522	3.3	6
118	A Crank-Nicolson scheme for the Landau-Lifshitz equation without damping. <i>Journal of Computational and Applied Mathematics</i> , 2010 , 234, 613-623	2.4	6

117	AN AUGMENTED PROJECTION METHOD FOR THE INCOMPRESSIBLE NAVIER-STOKES EQUATIONS IN ARBITRARY DOMAINS. <i>International Journal of Computational Methods</i> , 2005 , 02, 201-212	1.1	6
116	ROBUST AND ACCURATE METHOD FOR THE BLACK-SCHOLES EQUATIONS WITH PAYOFF-CONSISTENT EXTRAPOLATION. <i>Communications of the Korean Mathematical Society</i> , 2015 , 30, 297-311		6
115	A fast and practical adaptive finite difference method for the conservative Allen-Cahn model in two-phase flow system. <i>International Journal of Multiphase Flow</i> , 2021 , 137, 103561	3.6	6
114	Simple and efficient volume merging method for triply periodic minimal structures. <i>Computer Physics Communications</i> , 2021 , 264, 107956	4.2	6
113	Comparison study on the different dynamics between the Allen-Cahn and the Cahn-Hilliard equations. <i>Computers and Mathematics With Applications</i> , 2019 , 77, 311-322	2.7	6
112	Reconstruction of the Time-Dependent Volatility Function Using the Black-Scholes Model. <i>Discrete Dynamics in Nature and Society</i> , 2018 , 2018, 1-9	1.1	6
111	Phase-field model and its splitting numerical scheme for tissue growth. <i>Applied Numerical Mathematics</i> , 2017 , 117, 22-35	2.5	5
110	A simple and efficient outflow boundary condition for the incompressible Navier-Stokes equations. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2017 , 11, 69-85	4.5	5
109	The daily computed weighted averaging basic reproduction number for MERS-CoV in South Korea. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 451, 190-197	3.3	5
108	Accuracy, Robustness, and Efficiency of the Linear Boundary Condition for the Black-Scholes Equations. <i>Discrete Dynamics in Nature and Society</i> , 2015 , 2015, 1-10	1.1	5
107	Comparison of optimization algorithms for modeling of Haldane-type growth kinetics during phenol and benzene degradation. <i>Biochemical Engineering Journal</i> , 2016 , 106, 118-124	4.2	5
106	Fast and accurate adaptive finite difference method for dendritic growth. <i>Computer Physics Communications</i> , 2019 , 236, 95-103	4.2	5
105	Side wall boundary effect on the Rayleigh-Taylor instability. <i>European Journal of Mechanics, B/Fluids</i> , 2021 , 85, 361-374	2.4	5
104	Finite Difference Method for the Multi-Asset Black-Scholes Equations. <i>Mathematics</i> , 2020 , 8, 391	2.3	4
103	An Immersed Boundary Method for a Contractile Elastic Ring in a Three-Dimensional Newtonian Fluid. <i>Journal of Scientific Computing</i> , 2016 , 67, 909-925	2.3	4
102	A conservative finite difference scheme for the N-component Cahn-Hilliard system on curved surfaces in 3D. <i>Journal of Engineering Mathematics</i> , 2019 , 119, 149-166	1.2	4
101	A multigrid solution for the Cahn-Hilliard equation on nonuniform grids. <i>Applied Mathematics and Computation</i> , 2017 , 293, 320-333	2.7	4
100	AN EFFICIENT AND ACCURATE NUMERICAL SCHEME FOR TURING INSTABILITY ON A PREDATOR-Prey MODEL. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250139	2	4

99	Numerical studies of the fingering phenomena for the thin film equation. <i>International Journal for Numerical Methods in Fluids</i> , 2011 , 67, 1358-1372	1.9	4
98	AN ADAPTIVE FINITE DIFFERENCE METHOD USING FAR-FIELD BOUNDARY CONDITIONS FOR THE BLACK-SCHOLES EQUATION. <i>Bulletin of the Korean Mathematical Society</i> , 2014 , 51, 1087-1100		4
97	A Conservative Numerical Method for the Cahn-Hilliard Equation with Generalized Mobilities on Curved Surfaces in Three-Dimensional Space. <i>Communications in Computational Physics</i> , 2020 , 27, 412-430	3.4	4
96	Combining MF-DFA and LSSVM for retina images classification. <i>Biomedical Signal Processing and Control</i> , 2020 , 60, 101943	4.9	4
95	Phase-field modeling and computer simulation of the coffee-ring effect. <i>Theoretical and Computational Fluid Dynamics</i> , 2020 , 34, 679-692	2.3	4
94	An efficient stabilized multiple auxiliary variables method for the Cahn-Hilliard-Darcy two-phase flow system. <i>Computers and Fluids</i> , 2021 , 223, 104948	2.8	4
93	An unconditionally stable scheme for the Allen-Cahn equation with high-order polynomial free energy. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 95, 105658	3.7	4
92	Controlling COVID-19 Outbreaks with Financial Incentives. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	4
91	Pattern Formation in reaction-diffusion systems on evolving surfaces. <i>Computers and Mathematics With Applications</i> , 2020 , 80, 2019-2028	2.7	3
90	AUTOMATED CLASSIFICATION FOR BRAIN MRIS BASED ON 2D MF-DFA METHOD. <i>Fractals</i> , 2020 , 28, 2050109	3.2	3
89	A practical finite difference scheme for the Navier-Stokes equation on curved surfaces in R ³ . <i>Journal of Computational Physics</i> , 2020 , 411, 109403	4.1	3
88	A phase-field model for articular cartilage regeneration in degradable scaffolds. <i>Bulletin of Mathematical Biology</i> , 2013 , 75, 2389-409	2.1	3
87	An accurate and robust numerical method for micromagnetics simulations. <i>Current Applied Physics</i> , 2014 , 14, 476-483	2.6	3
86	COMPARISON OF DIFFERENT NUMERICAL SCHEMES FOR THE CAHN-HILLIARD EQUATION. <i>Journal of the Korean Society for Industrial and Applied Mathematics</i> , 2013 , 17, 197-207		3
85	A conservative and stable explicit finite difference scheme for the diffusion equation. <i>Journal of Computational Science</i> , 2021 , 56, 101491	3.4	3
84	AN UNCONDITIONALLY GRADIENT STABLE NUMERICAL METHOD FOR THE OHTA-KAWASAKI MODEL. <i>Bulletin of the Korean Mathematical Society</i> , 2017 , 54, 145-158		3
83	Effective Time Step Analysis of a Nonlinear Convex Splitting Scheme for the Cahn-Hilliard Equation. <i>Communications in Computational Physics</i> , 2019 , 25,	2.4	3
82	A robust and efficient fingerprint image restoration method based on a phase-field model. <i>Pattern Recognition</i> , 2022 , 123, 108405	7.7	3

81	Fast and Accurate Smoothing Method Using A Modified Allen-Cahn Equation. <i>CAD Computer Aided Design</i> , 2020 , 120, 102804	2.9	3
80	Pinning boundary conditions for phase-field models. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020 , 82, 105060	3.7	3
79	Conservative Allen-Cahn equation with a nonstandard variable mobility. <i>Acta Mechanica</i> , 2020 , 231, 561-576	3.7	3
78	A novel Cahn-Hilliard-Navier-Stokes model with a nonstandard variable mobility for two-phase incompressible fluid flow. <i>Computers and Fluids</i> , 2020 , 213, 104755	2.8	3
77	Linear, Second-Order Accurate, and Energy Stable Scheme for a Ternary Cahn-Hilliard Model by Using Lagrange Multiplier Approach. <i>Acta Applicandae Mathematicae</i> , 2021 , 172, 1	1.1	3
76	A phase-field method for two-phase fluid flow in arbitrary domains. <i>Computers and Mathematics With Applications</i> , 2020 , 79, 1857-1874	2.7	3
75	Modeling and simulation of droplet evaporation using a modified Cahn-Hilliard equation. <i>Applied Mathematics and Computation</i> , 2021 , 390, 125591	2.7	3
74	Efficient 3D Volume Reconstruction from a Point Cloud Using a Phase-Field Method. <i>Mathematical Problems in Engineering</i> , 2018 , 2018, 1-9	1.1	3
73	The stabilized-trigonometric scalar auxiliary variable approach for gradient flows and its efficient schemes. <i>Journal of Engineering Mathematics</i> , 2021 , 129, 1	1.2	3
72	Robust and accurate construction of the local volatility surface using the Black-Scholes equation. <i>Chaos, Solitons and Fractals</i> , 2021 , 150, 111116	9.3	3
71	Numerical study of the ternary Cahn-Hilliard fluids by using an efficient modified scalar auxiliary variable approach. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 102, 105923	3.7	3
70	Shape transformation using the modified Allen-Cahn equation. <i>Applied Mathematics Letters</i> , 2020 , 107, 106487	3.5	2
69	The Navier-Stokes-Cahn-Hilliard model with a high-order polynomial free energy. <i>Acta Mechanica</i> , 2020 , 231, 2425-2437	2.1	2
68	Porous Three-Dimensional Scaffold Generation for 3D Printing. <i>Mathematics</i> , 2020 , 8, 946	2.3	2
67	A Simple Method for Network Visualization. <i>Mathematics</i> , 2020 , 8, 1020	2.3	2
66	Numerical Study of Periodic Traveling Wave Solutions for the Predator-Prey Model with Landscape Features. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2015 , 25, 1550117	2	2
65	A simple and robust boundary treatment for the forced Korteweg-de Vries equation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014 , 19, 2262-2271	3.7	2
64	Nonlinear Multigrid Implementation for the Two-Dimensional Cahn-Hilliard Equation. <i>Mathematics</i> , 2020 , 8, 97	2.3	2

63	An unconditionally stable numerical method for the viscous Cahn–Hilliard equation. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2014 , 19, 1737-1747	1.3	2
62	A HYBRID METHOD FOR HIGHER-ORDER NONLINEAR DIFFUSION EQUATIONS. <i>Communications of the Korean Mathematical Society</i> , 2005 , 20, 179-193		2
61	Fast Monte Carlo Simulation for Pricing Equity-Linked Securities. <i>Computational Economics</i> , 2020 , 56, 865-882	1.4	2
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