

Darae Jeong

List of Publications by Year in descending order

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66
papers

1,214
citations

393982

19
h-index

414034

32
g-index

66
all docs

66
docs citations

66
times ranked

632
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical, mathematical, and numerical derivations of the Cahn–Hilliard equation. <i>Computational Materials Science</i> , 2014, 81, 216-225.	1.4	113
2	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.	1.2	108
3	An unconditionally stable hybrid numerical method for solving the Allen–Cahn equation. <i>Computers and Mathematics With Applications</i> , 2010, 60, 1591-1606.	1.4	106
4	Conservative Allen–Cahn–Navier–Stokes system for incompressible two-phase fluid flows. <i>Computers and Fluids</i> , 2017, 156, 239-246.	1.3	66
5	Fast local image inpainting based on the Allen–Cahn model. , 2015, 37, 65-74.		51
6	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.	1.4	46
7	Basic Principles and Practical Applications of the Cahn–Hilliard Equation. <i>Mathematical Problems in Engineering</i> , 2016, 2016, 1-11.	0.6	45
8	Finite Element Analysis of Schwarz P Surface Pore Geometries for Tissue-Engineered Scaffolds. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-13.	0.6	40
9	An explicit hybrid finite difference scheme for the Allen–Cahn equation. <i>Journal of Computational and Applied Mathematics</i> , 2018, 340, 247-255.	1.1	36
10	A conservative numerical method for the Cahn–Hilliard equation in complex domains. <i>Journal of Computational Physics</i> , 2011, 230, 7441-7455.	1.9	30
11	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.	1.2	27
12	A finite difference method for a conservative Allen–Cahn equation on non-flat surfaces. <i>Journal of Computational Physics</i> , 2017, 334, 170-181.	1.9	27
13	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.	1.1	25
14	Motion by mean curvature of curves on surfaces using the Allen–Cahn equation. <i>International Journal of Engineering Science</i> , 2015, 97, 126-132.	2.7	25
15	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.	3.4	24
16	Microphase separation patterns in diblock copolymers on curved surfaces using a nonlocal Cahn–Hilliard equation. <i>European Physical Journal E</i> , 2015, 38, 117.	0.7	23
17	Comparison study of numerical methods for solving the Allen–Cahn equation. <i>Computational Materials Science</i> , 2016, 111, 131-136.	1.4	22
18	Numerical analysis of energy-minimizing wavelengths of equilibrium states for diblock copolymers. <i>Current Applied Physics</i> , 2014, 14, 1263-1272.	1.1	21

#	ARTICLE	IF	CITATIONS
19	Fourier-Spectral Method for the Phase-Field Equations. <i>Mathematics</i> , 2020, 8, 1385.	1.1	20
20	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.	1.7	19
21	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.	1.2	18
22	AN ACCURATE AND EFFICIENT NUMERICAL METHOD FOR BLACK-SCHOLES EQUATIONS. <i>Communications of the Korean Mathematical Society</i> , 2009, 24, 617-628.	0.2	18
23	A practical finite difference method for the three-dimensional Black–Scholes equation. <i>European Journal of Operational Research</i> , 2016, 252, 183-190.	3.5	16
24	Adaptive mesh refinement for simulation of thin film flows. <i>Meccanica</i> , 2014, 49, 239-252.	1.2	15
25	Multicomponent volume reconstruction from slice data using a modified multicomponent Cahn–Hilliard system. <i>Pattern Recognition</i> , 2019, 93, 124-133.	5.1	14
26	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.	1.4	14
27	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.	1.7	13
28	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.	1.7	13
29	Finite Difference Method for the Black–Scholes Equation Without Boundary Conditions. <i>Computational Economics</i> , 2018, 51, 961-972.	1.5	13
30	Efficient 3D Volume Reconstruction from a Point Cloud Using a Phase-Field Method. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-9.	0.6	13
31	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.	1.6	13
32	Reconstruction of the Time-Dependent Volatility Function Using the Black–Scholes Model. <i>Discrete Dynamics in Nature and Society</i> , 2018, 2018, 1-9.	0.5	12
33	A Hybrid Monte Carlo and Finite Difference Method for Option Pricing. <i>Computational Economics</i> , 2019, 53, 111-124.	1.5	12
34	Mathematical model and numerical simulation of the cell growth in scaffolds. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 677-688.	1.4	11
35	Energy-minimizing wavelengths of equilibrium states for diblock copolymers in the hex-cylinder phase. <i>Current Applied Physics</i> , 2015, 15, 799-804.	1.1	11
36	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.	1.2	9

#	ARTICLE	IF	CITATIONS
37	Nonlinear Multigrid Implementation for the Two-Dimensional Cahn-Hilliard Equation. Mathematics, 2020, 8, 97.	1.1	9
38	An efficient numerical method for evolving microstructures with strong elastic inhomogeneity. Modelling and Simulation in Materials Science and Engineering, 2015, 23, 045007.	0.8	8
39	A multigrid solution for the Cahn-Hilliard equation on nonuniform grids. Applied Mathematics and Computation, 2017, 293, 320-333.	1.4	8
40	Phase-field model and its splitting numerical scheme for tissue growth. Applied Numerical Mathematics, 2017, 117, 22-35.	1.2	7
41	A Crank-Nicolson scheme for the Landau-Lifshitz equation without damping. Journal of Computational and Applied Mathematics, 2010, 234, 613-623.	1.1	6
42	Accuracy, Robustness, and Efficiency of the Linear Boundary Condition for the Black-Scholes Equations. Discrete Dynamics in Nature and Society, 2015, 2015, 1-10.	0.5	6
43	The daily computed weighted averaging basic reproduction number R_0 for MERS-CoV in South Korea. Physica A: Statistical Mechanics and Its Applications, 2016, 451, 190-197.	1.2	6
44	Finite Difference Method for the Multi-Asset Black-Scholes Equations. Mathematics, 2020, 8, 391.	1.1	6
45	A practical adaptive grid method for the Allen-Cahn equation. Physica A: Statistical Mechanics and Its Applications, 2021, 573, 125975.	1.2	6
46	ROBUST AND ACCURATE METHOD FOR THE BLACK-SCHOLES EQUATIONS WITH PAYOFF-CONSISTENT EXTRAPOLATION. Communications of the Korean Mathematical Society, 2015, 30, 297-311.	0.2	6
47	An Immersed Boundary Method for a Contractile Elastic Ring in a Three-Dimensional Newtonian Fluid. Journal of Scientific Computing, 2016, 67, 909-925.	1.1	5
48	A conservative finite difference scheme for the N-component Cahn-Hilliard system on curved surfaces in 3D. Journal of Engineering Mathematics, 2019, 119, 149-166.	0.6	5
49	Porous Three-Dimensional Scaffold Generation for 3D Printing. Mathematics, 2020, 8, 946.	1.1	5
50	AN EFFICIENT AND ACCURATE NUMERICAL SCHEME FOR TURING INSTABILITY ON A PREDATOR-Prey MODEL. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250139.	0.7	4
51	An accurate and robust numerical method for micromagnetics simulations. Current Applied Physics, 2014, 14, 476-483.	1.1	4
52	Practical estimation of a splitting parameter for a spectral method for the ternary Cahn-Hilliard system with a logarithmic free energy. Mathematical Methods in the Applied Sciences, 2017, 40, 1734-1745.	1.2	4
53	An Accurate and Practical Explicit Hybrid Method for the Chan-Vese Image Segmentation Model. Mathematics, 2020, 8, 1173.	1.1	4
54	AN ADAPTIVE FINITE DIFFERENCE METHOD USING FAR-FIELD BOUNDARY CONDITIONS FOR THE BLACK-SCHOLES EQUATION. Bulletin of the Korean Mathematical Society, 2014, 51, 1087-1100.	0.3	4

#	ARTICLE	IF	CITATIONS
55	A hybrid numerical method for the phase-field model of fluid vesicles in three-dimensional space. <i>International Journal for Numerical Methods in Fluids</i> , 2015, 78, 63-75.	0.9	3
56	Accurate and Efficient Computations of the Greeks for Options Near Expiry Using the Black-Scholes Equations. <i>Discrete Dynamics in Nature and Society</i> , 2016, 2016, 1-12.	0.5	3
57	Verification of Convergence Rates of Numerical Solutions for Parabolic Equations. <i>Mathematical Problems in Engineering</i> , 2019, 2019, 1-10.	0.6	3
58	Mathematical modeling and computer simulation of the three-dimensional pattern formation of honeycombs. <i>Scientific Reports</i> , 2019, 9, 20364.	1.6	3
59	Fast Monte Carlo Simulation for Pricing Equity-Linked Securities. <i>Computational Economics</i> , 2020, 56, 865-882.	1.5	3
60	A simple and explicit numerical method for the phase-field model for diblock copolymer melts. <i>Computational Materials Science</i> , 2022, 205, 111192.	1.4	3
61	A regime-switching model with the volatility smile for two-asset European options. <i>Automatica</i> , 2014, 50, 747-755.	3.0	1
62	Super-Fast Computation for the Three-Asset Equity-Linked Securities Using the Finite Difference Method. <i>Mathematics</i> , 2020, 8, 307.	1.1	1
63	A COMPARISON STUDY OF EXPLICIT AND IMPLICIT NUMERICAL METHODS FOR THE EQUITY-LINKED SECURITIES. <i>Honam Mathematical Journal</i> , 2015, 37, 441-455.	0.1	1
64	Nonuniform Finite Difference Scheme for the Three-Dimensional Time-Fractional Black-Scholes Equation. <i>Journal of Function Spaces</i> , 2021, 2021, 1-11.	0.4	1
65	A Projection Method for the Conservative Discretizations of Parabolic Partial Differential Equations. <i>Journal of Scientific Computing</i> , 2018, 75, 332-349.	1.1	0
66	Linear Stability Analysis of the Cahn-Hilliard Equation in Spinodal Region. <i>Journal of Function Spaces</i> , 2022, 2022, 1-11.	0.4	0