June-Yub Lee

List of Publications by Year
in descending order

40 papers	1,574 citations	393982 19 h-index	329751 37 g-index
41 all docs	41 docs citations	41 times ranked	1058 citing authors

#	Article	IF	Citations
1	Energy quadratization Runge–Kutta method for the modified phase field crystal equation. Modelling and Simulation in Materials Science and Engineering, 2022, 30, 024004.	0.8	3
2	A High-Order and Unconditionally Energy Stable Scheme for the Conservative Allen–Cahn Equation with a Nonlocal Lagrange Multiplier. Journal of Scientific Computing, 2022, 90, 1.	1.1	15
3	Energy quadratization Runge–Kutta scheme for the conservative Allen–Cahn equation with a nonlocal Lagrange multiplier. Applied Mathematics Letters, 2022, 132, 108161.	1.5	9
4	An energy stable Runge–Kutta method for convex gradient problems. Journal of Computational and Applied Mathematics, 2020, 367, 112455.	1.1	4
5	Long-time simulation of the phase-field crystal equation using high-order energy-stable CSRK methods. Computer Methods in Applied Mechanics and Engineering, 2020, 364, 112981.	3.4	13
6	Comparison of graph clustering methods for analyzing the mathematical subject classification codes. Communications for Statistical Applications and Methods, 2020, 27, 569-578.	0.1	1
7	A High-Order Convex Splitting Method for a Non-Additive Cahn–Hilliard Energy Functional. Mathematics, 2019, 7, 1242.	1.1	3
8	A Second-Order Operator Splitting Fourier Spectral Method for Models of Epitaxial Thin Film Growth. Journal of Scientific Computing, 2017, 71, 1303-1318.	1.1	5
9	First- and second-order energy stable methods for the modified phase field crystal equation. Computer Methods in Applied Mechanics and Engineering, 2017, 321, 1-17.	3.4	34
10	Convex Splitting Runge–Kutta methods for phase-field models. Computers and Mathematics With Applications, 2017, 73, 2388-2403.	1.4	27
11	Unconditionally stable methods for gradient flow using Convex Splitting Runge–Kutta scheme. Journal of Computational Physics, 2017, 347, 367-381.	1.9	46
12	First and second order numerical methods based on a new convex splitting for phase-field crystal equation. Journal of Computational Physics, 2016, 327, 519-542.	1.9	62
13	Analysis and computational method based on quadratic B-spline FEM for the Rosenau-Burgers equation. Numerical Methods for Partial Differential Equations, 2016, 32, 877-895.	2.0	8
14	A second order operator splitting method for Allen–Cahn type equations with nonlinear source terms. Physica A: Statistical Mechanics and Its Applications, 2015, 432, 24-34.	1.2	37
15	First and second order operator splitting methods for the phase field crystal equation. Journal of Computational Physics, 2015, 299, 82-91.	1.9	36
16	A fast direct solver for scattering from periodic structures with multiple material interfaces in two dimensions. Journal of Computational Physics, 2014, 258, 738-751.	1.9	15
17	A semi-analytical Fourier spectral method for the Allen–Cahn equation. Computers and Mathematics With Applications, 2014, 68, 174-184.	1.4	57
18	An enhanced parareal algorithm based on the deferred correction methods for a stiff system. Journal of Computational and Applied Mathematics, 2014, 255, 297-305.	1.1	8

#	Article	IF	Citations
19	Local flux conservative numerical methods for the second order elliptic equations. Japan Journal of Industrial and Applied Mathematics, 2013, 30, 529-543.	0.5	0
20	Multiple positive solutions for discrete p-Laplacian equations with potential term. Applicable Analysis and Discrete Mathematics, 2013, 7, 327-342.	0.3	1
21	Numerical methods for the shape reconstruction of electrical anomalies using single or double boundary measurements. Applicable Analysis, 2012, 91, 773-786.	0.6	0
22	Stable and accurate integral equation methods for scattering problems with multiple material interfaces in two dimensions. Journal of Computational Physics, 2012, 231, 2389-2395.	1.9	19
23	The generalized polarization tensors for resolved imaging Part II: Shape and electromagnetic parameters reconstruction of an electromagnetic inclusion from multistatic measurements. Mathematics of Computation, 2011, 81, 839-860.	1.1	23
24	Algorithm for the determination of a linear crack in an elastic body from boundary measurements. Inverse Problems, 2010, 26, 085015.	1.0	6
25	Numerical reconstruction of a cluster of small elastic inclusions. Inverse Problems, 2007, 23, 2311-2324.	1.0	10
26	The fast sinc transform and image reconstruction from nonuniform samples in k-space. Communications in Applied Mathematics and Computational Science, 2006, 1, 121-131.	0.7	21
27	Electrostatics and heat conduction in high contrast composite materials. Journal of Computational Physics, 2006, 211, 64-76.	1.9	28
28	The type 3 nonuniform FFT and its applications. Journal of Computational Physics, 2005, 206, 1-5.	1.9	149
29	A reconstruction formula and uniqueness of conductivity in MREIT using two internal current distributions. Inverse Problems, 2004, 20, 847-858.	1.0	37
30	Accelerating the Nonuniform Fast Fourier Transform. SIAM Review, 2004, 46, 443-454.	4.2	556
31	Identification of elastic inclusions and elastic moment tensors by boundary measurements. Inverse Problems, 2003, 19, 703-724.	1.0	33
32	Three-dimensional forward solver and its performance analysis for magnetic resonance electrical impedance tomography (MREIT) using recessed electrodes. Physics in Medicine and Biology, 2003, 48, 1971-1986.	1.6	87
33	Long Time Computation of Two-Dimensional Vortex Sheet by Point Vortex Method. Journal of the Physical Society of Japan, 2003, 72, 1968-1976.	0.7	16
34	Equipotential line method for magnetic resonance electrical impedance tomography. Inverse Problems, 2002, 18, 1089-1100.	1.0	58
35	Identification of Two-Phase Free Boundary Arising in Plasma Physics. SIAM Journal on Mathematical Analysis, 2000, 31, 1295-1306.	0.9	1
36	A high-order adaptive numerical method for recirculating flows at large Reynolds number. Journal of Computational and Applied Mathematics, 1999, 108, 75-86.	1.1	0

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37	Identification of a free boundary arising in a magneto-hydrodynamics system. Inverse Problems, 1997, 13, 1301-1309.	1.0	3
38	A Fast Adaptive Numerical Method for Stiff Two-Point Boundary Value Problems. SIAM Journal of Scientific Computing, 1997, 18, 403-429.	1.3	51
39	A Direct Adaptive Poisson Solver of Arbitrary Order Accuracy. Journal of Computational Physics, 1996, 125, 415-424.	1.9	69
40	On the Asymptotic and Numerical Analyses of Exponentially Ill–Conditioned Singularly Perturbed Boundary Value Problems. Studies in Applied Mathematics, 1995, 94, 271-326.	1.1	23