

June-Yub Lee

List of Publications by Year in descending order

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40
papers

1,574
citations

394421

19
h-index

330143

37
g-index

41
all docs

41
docs citations

41
times ranked

1058
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerating the Nonuniform Fast Fourier Transform. <i>SIAM Review</i> , 2004, 46, 443-454.	9.5	556
2	The type 3 nonuniform FFT and its applications. <i>Journal of Computational Physics</i> , 2005, 206, 1-5.	3.8	149
3	Three-dimensional forward solver and its performance analysis for magnetic resonance electrical impedance tomography (MREIT) using recessed electrodes. <i>Physics in Medicine and Biology</i> , 2003, 48, 1971-1986.	3.0	87
4	A Direct Adaptive Poisson Solver of Arbitrary Order Accuracy. <i>Journal of Computational Physics</i> , 1996, 125, 415-424.	3.8	69
5	First and second order numerical methods based on a new convex splitting for phase-field crystal equation. <i>Journal of Computational Physics</i> , 2016, 327, 519-542.	3.8	62
6	Equipotential line method for magnetic resonance electrical impedance tomography. <i>Inverse Problems</i> , 2002, 18, 1089-1100.	2.0	58
7	A semi-analytical Fourier spectral method for the Allen-Cahn equation. <i>Computers and Mathematics With Applications</i> , 2014, 68, 174-184.	2.7	57
8	A Fast Adaptive Numerical Method for Stiff Two-Point Boundary Value Problems. <i>SIAM Journal of Scientific Computing</i> , 1997, 18, 403-429.	2.8	51
9	Unconditionally stable methods for gradient flow using Convex Splitting Runge-Kutta scheme. <i>Journal of Computational Physics</i> , 2017, 347, 367-381.	3.8	46
10	A reconstruction formula and uniqueness of conductivity in MREIT using two internal current distributions. <i>Inverse Problems</i> , 2004, 20, 847-858.	2.0	37
11	A second order operator splitting method for Allen-Cahn type equations with nonlinear source terms. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 432, 24-34.	2.6	37
12	First and second order operator splitting methods for the phase field crystal equation. <i>Journal of Computational Physics</i> , 2015, 299, 82-91.	3.8	36
13	First- and second-order energy stable methods for the modified phase field crystal equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 321, 1-17.	6.6	34
14	Identification of elastic inclusions and elastic moment tensors by boundary measurements. <i>Inverse Problems</i> , 2003, 19, 703-724.	2.0	33
15	Electrostatics and heat conduction in high contrast composite materials. <i>Journal of Computational Physics</i> , 2006, 211, 64-76.	3.8	28
16	Convex Splitting Runge-Kutta methods for phase-field models. <i>Computers and Mathematics With Applications</i> , 2017, 73, 2388-2403.	2.7	27
17	On the Asymptotic and Numerical Analyses of Exponentially Ill-Conditioned Singularly Perturbed Boundary Value Problems. <i>Studies in Applied Mathematics</i> , 1995, 94, 271-326.	2.4	23
18	The generalized polarization tensors for resolved imaging Part II: Shape and electromagnetic parameters reconstruction of an electromagnetic inclusion from multistatic measurements. <i>Mathematics of Computation</i> , 2011, 81, 839-860.	2.1	23

#	ARTICLE	IF	CITATIONS
19	The fast sinc transform and image reconstruction from nonuniform samples in k -space. Communications in Applied Mathematics and Computational Science, 2006, 1, 121-131.	1.8	21
20	Stable and accurate integral equation methods for scattering problems with multiple material interfaces in two dimensions. Journal of Computational Physics, 2012, 231, 2389-2395.	3.8	19
21	Long Time Computation of Two-Dimensional Vortex Sheet by Point Vortex Method. Journal of the Physical Society of Japan, 2003, 72, 1968-1976.	1.6	16
22	A fast direct solver for scattering from periodic structures with multiple material interfaces in two dimensions. Journal of Computational Physics, 2014, 258, 738-751.	3.8	15
23	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.	2.3	15
24	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.	6.6	13
25	Numerical reconstruction of a cluster of small elastic inclusions. Inverse Problems, 2007, 23, 2311-2324.	2.0	10
26	Energy quadratization Runge-Kutta scheme for the conservative Allen-Cahn equation with a nonlocal Lagrange multiplier. Applied Mathematics Letters, 2022, 132, 108161.	2.7	9
27	An enhanced parareal algorithm based on the deferred correction methods for a stiff system. Journal of Computational and Applied Mathematics, 2014, 255, 297-305.	2.0	8
28	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.	3.6	8
29	Algorithm for the determination of a linear crack in an elastic body from boundary measurements. Inverse Problems, 2010, 26, 085015.	2.0	6
30	A Second-Order Operator Splitting Fourier Spectral Method for Models of Epitaxial Thin Film Growth. Journal of Scientific Computing, 2017, 71, 1303-1318.	2.3	5
31	An energy stable Runge-Kutta method for convex gradient problems. Journal of Computational and Applied Mathematics, 2020, 367, 112455.	2.0	4
32	Identification of a free boundary arising in a magneto-hydrodynamics system. Inverse Problems, 1997, 13, 1301-1309.	2.0	3
33	A High-Order Convex Splitting Method for a Non-Additive Cahn-Hilliard Energy Functional. Mathematics, 2019, 7, 1242.	2.2	3
34	Energy quadratization Runge-Kutta method for the modified phase field crystal equation. Modelling and Simulation in Materials Science and Engineering, 2022, 30, 024004.	2.0	3
35	Identification of Two-Phase Free Boundary Arising in Plasma Physics. SIAM Journal on Mathematical Analysis, 2000, 31, 1295-1306.	1.9	1
36	Multiple positive solutions for discrete p -Laplacian equations with potential term. Applicable Analysis and Discrete Mathematics, 2013, 7, 327-342.	0.7	1

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37	Comparison of graph clustering methods for analyzing the mathematical subject classification codes. Communications for Statistical Applications and Methods, 2020, 27, 569-578.	0.3	1
38	A high-order adaptive numerical method for recirculating flows at large Reynolds number. Journal of Computational and Applied Mathematics, 1999, 108, 75-86.	2.0	0
39	Numerical methods for the shape reconstruction of electrical anomalies using single or double boundary measurements. Applicable Analysis, 2012, 91, 773-786.	1.3	0
40	Local flux conservative numerical methods for the second order elliptic equations. Japan Journal of Industrial and Applied Mathematics, 2013, 30, 529-543.	0.9	0