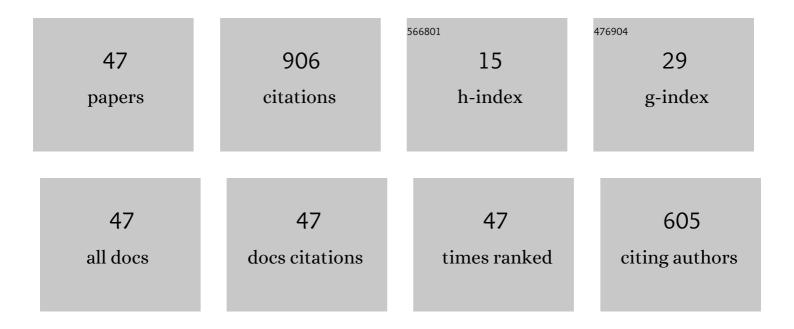
## Shidong Jiang

List of Publications by Year in descending order

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SHIDONG LIANG

#	Article	IF	CITATIONS
1	Solving Fredholm second-kind integral equations with singular right-hand sides on non-smooth boundaries. Journal of Computational Physics, 2022, 448, 110714.	1.9	4
2	On Time-Domain NRBC for Maxwell's Equations and Its Application in Accurate Simulation of Electromagnetic Invisibility Cloaks. Journal of Scientific Computing, 2021, 86, 1.	1.1	1
3	Evaluation of Abramowitz functions in the right half of the complex plane. Journal of Computational Physics, 2020, 405, 109169.	1.9	1
4	An integral equation method for the Cahn-Hilliard equation in the wetting problem. Journal of Computational Physics, 2020, 419, 109521.	1.9	3
5	Simulation of Multiscale Hydrophobic Lipid Dynamics via Efficient Integral Equation Methods. Multiscale Modeling and Simulation, 2020, 18, 79-103.	0.6	4
6	On the accurate evaluation of unsteady Stokes layer potentials in moving two-dimensional geometries. Advances in Computational Mathematics, 2020, 46, 1.	0.8	0
7	Finiteâ€Element Method Solution of Nonâ€Fickian Transport in Porous Media: The CTRWâ€FEM Package. Ground Water, 2019, 57, 479-484.	0.7	5
8	Efficient dynamic simulations of charged dielectric colloids through a novel hybrid method. Journal of Chemical Physics, 2019, 151, 024112.	1.2	7
9	A New Mixed Potential Representation for Unsteady, Incompressible Flow. SIAM Review, 2019, 61, 733-755.	4.2	4
10	An Efficient Boundary Integral Scheme for the Threshold Dynamics Method II: Applications to Wetting Dynamics. Journal of Scientific Computing, 2019, 81, 1860-1881.	1.1	7
11	Fast High-Order Integral Equation Methods for Solving Boundary Value Problems of Two Dimensional Heat Equation in Complex Geometry. Journal of Scientific Computing, 2019, 79, 787-808.	1.1	5
12	Second kind integral equation formulation for the mode calculation of optical waveguides. Applied and Computational Harmonic Analysis, 2018, 44, 645-664.	1.1	5
13	An Efficient Boundary Integral Scheme for the MBO Threshold Dynamics Method via the NUFFT. Journal of Scientific Computing, 2018, 74, 474-490.	1.1	9
14	The Anisotropic Truncated Kernel Method for Convolution with Free-Space Green's Functions. SIAM Journal of Scientific Computing, 2018, 40, A3733-A3754.	1.3	10
15	On Integral Equation Methods for the First Dirichlet Problem of the Biharmonic and Modified Biharmonic Equations in NonSmooth Domains. SIAM Journal of Scientific Computing, 2018, 40, A2609-A2630.	1.3	10
16	Fast Evaluation of the Caputo Fractional Derivative and its Applications to Fractional Diffusion Equations. Communications in Computational Physics, 2017, 21, 650-678.	0.7	308
17	An Efficient High Order Method for Dislocation Climb in Two Dimensions. Multiscale Modeling and Simulation, 2017, 15, 235-253.	0.6	8
18	Numerical solution to a linearized time fractional KdV equation on unbounded domains. Mathematics of Computation, 2017, 87, 693-719.	1.1	35

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19	Quantitative study of the effect of cladding thickness on modal confinement loss in photonic waveguides. Optics Express, 2016, 24, 24872.	1.7	2
20	A Hybrid Method for Systems of Closely Spaced Dielectric Spheres and Ions. SIAM Journal of Scientific Computing, 2016, 38, B375-B395.	1.3	25
21	Analysis and accurate numerical solutions of the integral equation derived from the linearized BGKW equation for the steady Couette flow. Journal of Computational Physics, 2016, 316, 416-434.	1.9	24
22	One-Dimensional Finite Element Method Solution of a Class of Integro-Differential Equations: Application to Non-Fickian Transport in Disordered Media. Transport in Porous Media, 2016, 115, 239-263.	1.2	7
23	Efficient Brownian dynamics simulation of DNA molecules with hydrodynamic interactions in linear flows. Physical Review E, 2015, 91, 063008.	0.8	2
24	Efficient sum-of-exponentials approximations for the heat kernel and their applications. Advances in Computational Mathematics, 2015, 41, 529-551.	0.8	17
25	Computing the ground state and dynamics of the nonlinear SchrĶdinger equation with nonlocal interactions via the nonuniform FFT. Journal of Computational Physics, 2015, 296, 72-89.	1.9	25
26	Extension of the Lorenz–Mie–Debye method for electromagnetic scattering to the time-domain. Journal of Computational Physics, 2015, 299, 98-105.	1.9	6
27	Fast and Accurate Evaluation of Nonlocal Coulomb and Dipole-Dipole Interactions via the Nonuniform FFT. SIAM Journal of Scientific Computing, 2014, 36, B777-B794.	1.3	41
28	The solution of the scalar wave equation in the exterior of a sphere. Journal of Computational Physics, 2014, 274, 191-207.	1.9	10
29	A Bootstrap Method for Sum-of-Poles Approximations. Journal of Scientific Computing, 2013, 55, 16-39.	1.1	23
30	Second kind integral equation formulation for the modified biharmonic equation and its applications. Journal of Computational Physics, 2013, 249, 113-126.	1.9	10
31	A fast multipole method for the Rotne–Prager–Yamakawa tensor and its applications. Journal of Computational Physics, 2013, 234, 133-139.	1.9	34
32	A fast algorithm for Brownian dynamics simulation with hydrodynamic interactions. Mathematics of Computation, 2013, 82, 1631-1645.	1.1	11
33	Integral Equation Methods for Unsteady Stokes Flow in Two Dimensions. SIAM Journal of Scientific Computing, 2012, 34, A2197-A2219.	1.3	17
34	Second kind integral equations for the first kind Dirichlet problem of the biharmonic equation in three dimensions. Journal of Computational Physics, 2011, 230, 7488-7501.	1.9	9
35	Incorporating the Havriliak–Negami dielectric model in the FD-TD method. Journal of Computational Physics, 2011, 230, 3884-3899.	1.9	15
36	Generalized Poincaré–Bertrand formula on a hypersurface. Applied and Computational Harmonic Analysis, 2009, 27, 100-116.	1.1	7

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#	Article	IF	CITATIONS
37	Efficient representation of nonreflecting boundary conditions for the timeâ€dependent Schrödinger equation in two dimensions. Communications on Pure and Applied Mathematics, 2008, 61, 261-288.	1.2	49
38	Jump relations of the quadruple layer potential on a regular surface in three dimensions. Applied and Computational Harmonic Analysis, 2006, 21, 395-403.	1.1	2
39	Size dependence of second-order hyperpolarizability of finite periodic chains under Su-Schrieffer-Heeger model. Europhysics Letters, 2006, 76, 670-676.	0.7	2
40	Breaking of the overall permutation symmetry in nonlinear optical susceptibilities of one-dimensional periodic dimerized HÃ1⁄4ckel model. Journal of Physics Condensed Matter, 2006, 18, 8987-8993.	0.7	2
41	Overall permutation symmetry breakdown in nonlinear optical susceptibilities of one-dimensional periodic systems. , 2006, , .		0
42	Hyperpolarizabilities for the one-dimensional infinite single-electron periodic systems. I. Analytical solutions under dipole-dipole correlations. Journal of Chemical Physics, 2005, 123, 064901.	1.2	6
43	Hyperpolarizabilities for the one-dimensional infinite single-electron periodic systems. II. Dipole-dipole versus current-current correlations. Journal of Chemical Physics, 2005, 123, 064902.	1.2	3
44	Fast evaluation of nonreflecting boundary conditions for the SchrĶdinger equation in one dimension. Computers and Mathematics With Applications, 2004, 47, 955-966.	1.4	67
45	Second kind integral equations for the classical potential theory on open surfaces II. Journal of Computational Physics, 2004, 195, 1-16.	1.9	39
46	Second kind integral equations for the classical potential theory on open surfaces I: analytical apparatus. Journal of Computational Physics, 2003, 191, 40-74.	1.9	8
47	Quadruple and octuple layer potentials in two dimensionsÂl: Analytical apparatus. Applied and Computational Harmonic Analysis, 2003, 14, 47-74.	1.1	17