Weizhu Bao

List of Publications by Year
in descending order

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147 papers	6,295 citations	76294 40 h-index	76872 74 g-index
149 all docs	149 docs citations	149 times ranked	1882 citing authors

#	Article	IF	Citations
1	Numerical solution of the Grossâ€“Pitaevskii equation for Boseâ€“Einstein condensation. Journal of Computational Physics, 2003, 187, 318-342.	1.9	465
2	Mathematical theory and numerical methods for Bose-Einstein condensation. Kinetic and Related Models, 2013, 6, 1-135.	0.5	337
3	On Time-Splitting Spectral Approximations for the SchrÃ¶dinger Equation in the Semiclassical Regime. Journal of Computational Physics, 2002, 175, 487-524.	1.9	318
4	Computing the Ground State Solution of Bose--Einstein Condensates by a Normalized Gradient Flow. SIAM Journal of Scientific Computing, 2004, 25, 1674-1697.	1.3	316
5	Computational methods for the dynamics of the nonlinear SchrÃ¶dinger/Grossâ€“Pitaevskii equations. Computer Physics Communications, 2013, 184, 2621-2633.	3.0	258
6	Numerical Study of Time-Splitting Spectral Discretizations of Nonlinear SchrÃ¶dinger Equations in the Semiclassical Regimes. SIAM Journal of Scientific Computing, 2003, 25, 27-64.	1.3	167
7	Uniform Error Estimates of Finite Difference Methods for the Nonlinear SchrÃ¶dinger Equation with Wave Operator. SIAM Journal on Numerical Analysis, 2012, 50, 492-521.	1.1	136
8	Optimal error estimates of finite difference methods for the Gross-Pitaevskii equation with angular momentum rotation. Mathematics of Computation, 2012, 82, 99-128.	1.1	130
9	Ground States and Dynamics of Multicomponent Bose--Einstein Condensates. Multiscale Modeling and Simulation, 2004, 2, 210-236.	0.6	128
10	Analysis and comparison of numerical methods for the Kleinâ€“Gordon equation in the nonrelativistic limit regime. Numerische Mathematik, 2012, 120, 189-229.	0.9	128
11	A Fourth-Order Time-Splitting Laguerre--Hermite Pseudospectral Method for Bose--Einstein Condensates. SIAM Journal of Scientific Computing, 2005, 26, 2010-2028.	1.3	123
12	Ground-state solution of Boseâ€“Einstein condensate by directly minimizing the energy functional. Journal of Computational Physics, 2003, 187, 230-254.	1.9	118
13	Efficient numerical methods for computing ground states and dynamics of dipolar Boseâ€“Einstein condensates. Journal of Computational Physics, 2010, 229, 7874-7892.	1.9	114
14	Efficient and spectrally accurate numerical methods for computing ground and first excited states in Boseâ€“Einstein condensates. Journal of Computational Physics, 2006, 219, 836-854.	1.9	112
15	An efficient and spectrally accurate numerical method for computing dynamics of rotating Boseâ€“Einstein condensates. Journal of Computational Physics, 2006, 217, 612-626.	1.9	111
16	Ground, Symmetric and Central Vortex States in Rotating Bose-Einstein Condensates. Communications in Mathematical Sciences, 2005, 3, 57-88.	0.5	104
17	Efficient and accurate numerical methods for the Kleinâ€“Gordonâ€“SchrÃ¶dinger equations. Journal of Computational Physics, 2007, 225, 1863-1893.	1.9	101
18	An Explicit Unconditionally Stable Numerical Method for Solving Damped Nonlinear SchrÃ¶dinger Equations with a Focusing Nonlinearity. SIAM Journal on Numerical Analysis, 2003, 41, 1406-1426.	1.1	84

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19	Dynamics of Rotating Bose--Einstein Condensates and its Efficient and Accurate Numerical Computation. SIAM Journal on Applied Mathematics, 2006, 66, 758-786.	0.8	83
20	Self-trapping of impurities in Bose-Einstein condensates: Strong attractive and repulsive coupling. Europhysics Letters, 2008, 82, 30004.	0.7	81
21	Phase field approach for simulating solid-state dewetting problems. Acta Materialia, 2012, 60, 5578-5592.	3.8	79
22	Numerical methods and comparison for computing dark and bright solitons in the nonlinear SchrÃ¶dinger equation. Journal of Computational Physics, 2013, 235, 423-445.	1.9	79
23	Symmetry breaking and self-trapping of a dipolar Bose-Einstein condensate in a double-well potential. Physical Review A, 2009, 79, .	1.0	78
24	Mean-field regime of trapped dipolar Bose-Einstein condensates in one and two dimensions. Physical Review A, 2010, 82, .	1.0	69
25	Numerical methods for the generalized Zakharov system. Journal of Computational Physics, 2003, 190, 201-228.	1.9	64
26	Computing Ground States of Spin-1 Boseâ€“Einstein Condensates by the Normalized Gradient Flow. SIAM Journal of Scientific Computing, 2008, 30, 1925-1948.	1.3	64
27	A Uniformly Accurate Multiscale Time Integrator Pseudospectral Method for the Klein–Gordon Equation in the Nonrelativistic Limit Regime. SIAM Journal on Numerical Analysis, 2014, 52, 2488-2511.	1.1	63
28	The Random Projection Method for Hyperbolic Conservation Laws with Stiff Reaction Terms. Journal of Computational Physics, 2000, 163, 216-248.	1.9	62
29	An efficient and stable numerical method for the Maxwellâ€“Dirac system. Journal of Computational Physics, 2004, 199, 663-687.	1.9	57
30	A Generalized-Laguerreâ€“Fourierâ€“Hermite Pseudospectral Method for Computing the Dynamics of Rotating Boseâ€“Einstein Condensates. SIAM Journal of Scientific Computing, 2009, 31, 3685-3711.	1.3	57
31	Uniform and Optimal Error Estimates of an Exponential Wave Integrator Sine Pseudospectral Method for the Nonlinear SchrÃ¶dinger Equation with Wave Operator. SIAM Journal on Numerical Analysis, 2014, 52, 1103-1127.	1.1	57
32	An Exponential Wave Integrator Sine Pseudospectral Method for the Klein--Gordon--Zakharov System. SIAM Journal of Scientific Computing, 2013, 35, A2903-A2927.	1.3	54
33	Ground States of Two-component Bose-Einstein Condensates with an Internal Atomic Josephson Junction. East Asian Journal on Applied Mathematics, 2011, 1, 49-81.	0.4	53
34	Error estimates of numerical methods for the nonlinear Dirac equation in the nonrelativistic limit regime. Science China Mathematics, 2016, 59, 1461-1494.	0.8	51
35	Dynamics of rotating two-component Boseâ€“Einstein condensates and its efficient computation. Physica D: Nonlinear Phenomena, 2007, 234, 49-69.	1.3	48
36	Fractional quantum mechanics in polariton condensates with velocity-dependent mass. Physical Review B, 2015, 92, .	1.1	47

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37	Efficient and Stable Numerical Methods for the Generalized and Vector Zakharov System. SIAM Journal of Scientific Computing, 2005, 26, 1057-1088.	1.3	42
38	A variational-difference numerical method for designing progressive-addition lenses. CAD Computer Aided Design, 2014, 48, 17-27.	1.4	42
39	Numerical Methods and Comparison for the Dirac Equation in the Nonrelativistic Limit Regime. Journal of Scientific Computing, 2017, 71, 1094-1134.	1.1	42
40	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
41	Effective One Particle Quantum Dynamics of Electrons: A Numerical Study of the Schrodinger-Poisson-X_{alpha} Model. Communications in Mathematical Sciences, 2003, 1, 809-828.	0.5	41
42	Three-dimensional simulation of jet formation in collapsing condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 329-343.	0.6	40
43	DYNAMICS OF THE GROUND STATE AND CENTRAL VORTEX STATES IN BOSEâ€“EINSTEIN CONDENSATION. Mathematical Models and Methods in Applied Sciences, 2005, 15, 1863-1896.	1.7	39
44	Numerical methods for computing the ground state of spin-1 Bose-Einstein condensates in a uniform magnetic field. Physical Review E, 2008, 78, 066704.	0.8	39
45	A discrete artificial boundary condition for steady incompressible viscous flows in a no-slip channel using a fast iterative method. Journal of Computational Physics, 1994, 114, 201-208.	1.9	38
46	A parametric finite element method for solid-state dewetting problems with anisotropic surface energies. Journal of Computational Physics, 2017, 330, 380-400.	1.9	36
47	Ground States and Dynamics of Spin-Orbit-Coupled Bose--Einstein Condensates. SIAM Journal on Applied Mathematics, 2015, 75, 492-517.	0.8	35
48	A uniformly accurate (UA) multiscale time integrator Fourier pseudospectral method for the Kleinâ€“Gordonâ€“SchrÃ¶dinger equations in the nonrelativistic limit regime. Numerische Mathematik, 2017, 135, 833-873.	0.9	35
49	Breathing oscillations of a trapped impurity in a Bose gas. Europhysics Letters, 2012, 98, 26001.	0.7	34
50	A generalized-Laguerreâ€“Hermite pseudospectral method for computing symmetric and central vortex states in Boseâ€“Einstein condensates. Journal of Computational Physics, 2008, 227, 9778-9793.	1.9	32
51	A Mass and Magnetization Conservative and Energy-Diminishing Numerical Method for Computing Ground State of Spin-1 Boseâ€“Einstein Condensates. SIAM Journal on Numerical Analysis, 2007, 45, 2177-2200.	1.1	31
52	Sharp interface model for solid-state dewetting problems with weakly anisotropic surface energies. Physical Review B, 2015, 91, .	1.1	31
53	Error Estimates of a Regularized Finite Difference Method for the Logarithmic SchrÃ¶dinger Equation. SIAM Journal on Numerical Analysis, 2019, 57, 657-680.	1.1	31
54	Error Estimates for the Finite Element Approximation of Problems in Unbounded Domains. SIAM Journal on Numerical Analysis, 2000, 37, 1101-1119.	1.1	30

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55	Dynamics of vortices in weakly interacting Bose-Einstein condensates. Physical Review A, 2007, 76, .	1.0	30
56	A Regularized Newton Method for Computing Ground States of Boseâ€“Einstein Condensates. Journal of Scientific Computing, 2017, 73, 303-329.	1.1	30
57	A Simple and Efficient Numerical Method for Computing the Dynamics of Rotating Bose--Einstein Condensates via Rotating Lagrangian Coordinates. SIAM Journal of Scientific Computing, 2013, 35, A2671-A2695.	1.3	29
58	Numerical methods for computing ground states and dynamics of nonlinear relativistic Hartree equation for boson stars. Journal of Computational Physics, 2011, 230, 5449-5469.	1.9	28
59	A uniformly accurate multiscale time integrator spectral method for the Kleinâ€“Gordonâ€“Zakharov system in the high-plasma-frequency limit regime. Journal of Computational Physics, 2016, 327, 270-293.	1.9	28
60	Solid-state dewetting and island morphologies in strongly anisotropic materials. Scripta Materialia, 2016, 115, 123-127.	2.6	28
61	Comparisons between sine-Gordon and perturbed nonlinear SchrÃ¶dinger equations for modeling light bullets beyond critical collapse. Physica D: Nonlinear Phenomena, 2010, 239, 1120-1134.	1.3	27
62	Numerical simulation of vortex dynamics in Ginzburg-Landau-SchrÃ¶dinger equation. European Journal of Applied Mathematics, 2007, 18, 607-630.	1.4	26
63	Comparison of numerical methods for the nonlinear Klein-Gordon equation in the nonrelativistic limit regime. Journal of Computational Physics, 2019, 398, 108886.	1.9	26
64	Computing the ground state and dynamics of the nonlinear SchrÃ¶dinger equation with nonlocal interactions via the nonuniform FFT. Journal of Computational Physics, 2015, 296, 72-89.	1.9	25
65	A Uniformly Accurate Multiscale Time Integrator Pseudospectral Method for the Dirac Equation in the Nonrelativistic Limit Regime. SIAM Journal on Numerical Analysis, 2016, 54, 1785-1812.	1.1	25
66	Efficient numerical methods for computing ground states of spin-1 Boseâ€“Einstein condensates based on their characterizations. Journal of Computational Physics, 2013, 253, 189-208.	1.9	24
67	Accurate and Efficient Numerical Methods for Computing Ground States and Dynamics of Dipolar Bose-Einstein Condensates via the Nonuniform FFT. Communications in Computational Physics, 2016, 19, 1141-1166.	0.7	24
68	Numerical Methods for the Nonlinear SchrÃ¶dinger Equation with Nonzero Far-field Conditions. Methods and Applications of Analysis, 2004, 11, 367-388.	0.1	24
69	The Dynamics and Interaction of Quantized Vortices in the Ginzburgâ€“Landauâ€“SchrÃ¶dinger Equation. SIAM Journal on Applied Mathematics, 2007, 67, 1740-1775.	0.8	23
70	A Structure-Preserving Parametric Finite Element Method for Surface Diffusion. SIAM Journal on Numerical Analysis, 2021, 59, 2775-2799.	1.1	23
71	A priori and a posteriori error bounds for a nonconforming linear finite element approximation of a non-newtonian flow. ESAIM: Mathematical Modelling and Numerical Analysis, 1998, 32, 843-858.	0.8	22
72	Grossâ€“Pitaevskiiâ€“Poisson Equations for Dipolar Boseâ€“Einstein Condensate with Anisotropic Confinement. SIAM Journal on Mathematical Analysis, 2012, 44, 1713-1741.	0.9	22

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73	Regularized numerical methods for the logarithmic SchrÃ¶dinger equation. Numerische Mathematik, 2019, 143, 461-487.	0.9	22
74	Stable Equilibria of Anisotropic Particles on Substrates: A Generalized Winterbottom Construction. SIAM Journal on Applied Mathematics, 2017, 77, 2093-2118.	0.8	21
75	A Parametric Finite Element Method for Solid-State Dewetting Problems in Three Dimensions. SIAM Journal of Scientific Computing, 2020, 42, B327-B352.	1.3	21
76	AN ARTIFICIAL BOUNDARY CONDITION FOR TWO-DIMENSIONAL INCOMPRESSIBLE VISCOUS FLOWS USING THE METHOD OF LINES. International Journal for Numerical Methods in Fluids, 1996, 22, 483-493.	0.9	20
77	The Random Projection Method for Stiff Multispecies Detonation Capturing. Journal of Computational Physics, 2002, 178, 37-57.	1.9	20
78	The Nonlinear SchrÃ¶dinger Equation and Applications in Bose-Einstein Condensation and Plasma Physics. Lecture Notes Series, Institute for Mathematical Sciences, 2007, , 141-239.	0.2	20
79	ON THE INFâ€“SUP CONDITION OF MIXED FINITE ELEMENT FORMULATIONS FOR ACOUSTIC FLUIDS. Mathematical Models and Methods in Applied Sciences, 2001, 11, 883-901.	1.7	19
80	Numerical simulation for the problem of infinite elastic foundation. Computer Methods in Applied Mechanics and Engineering, 1997, 147, 369-385.	3.4	18
81	Sharp-Interface Model for Simulating Solid-State Dewetting in Three Dimensions. SIAM Journal on Applied Mathematics, 2020, 80, 1654-1677.	0.8	18
82	High-order local artificial boundary conditions for problems in unbounded domains. Computer Methods in Applied Mechanics and Engineering, 2000, 188, 455-471.	3.4	17
83	Uniform Error Bounds of a Finite Difference Method for the Zakharov System in the Subsonic Limit Regime via an Asymptotic Consistent Formulation. Multiscale Modeling and Simulation, 2017, 15, 977-1002.	0.6	17
84	A Uniformly and Optimally Accurate Method for the Zakharov System in the Subsonic Limit Regime. SIAM Journal of Scientific Computing, 2018, 40, A929-A953.	1.3	17
85	The Random Projection Method for Stiff Detonation Capturing. SIAM Journal of Scientific Computing, 2001, 23, 1000-1026.	1.3	16
86	ON THE GROSSâ€“PITAEVSKII EQUATION WITH STRONGLY ANISOTROPIC CONFINEMENT: FORMAL ASYMPTOTICS AND NUMERICAL EXPERIMENTS. Mathematical Models and Methods in Applied Sciences, 2005, 15, 767-782.	1.7	16
87	Dynamics of the center of mass in rotating Boseâ€“Einstein condensates. Applied Numerical Mathematics, 2007, 57, 697-709.	1.2	16
88	Hubbard Model for Atomic Impurities Bound by the Vortex Lattice of a Rotating Bose-Einstein Condensate. Physical Review Letters, 2016, 116, 240402.	2.9	16
89	Uniform error bounds of a finite difference method for the Klein-Gordon-Zakharov system in the subsonic limit regime. Mathematics of Computation, 2017, 87, 2133-2158.	1.1	16
90	Dynamical Laws of the Coupled Gross-Pitaevskii Equations for Spin-1 Bose-Einstein Condensates. Methods and Applications of Analysis, 2010, 17, 49-80.	0.1	16

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91	Convergence rate of dimension reduction in Boseâ€“Einstein condensates. Computer Physics Communications, 2007, 177, 832-850.	3.0	15
92	Vortex patterns and the critical rotational frequency in rotating dipolar Bose-Einstein condensates. Physical Review A, 2018, 98, .	1.0	15
93	Singular Limits of Kleinâ€“Gordonâ€“SchrÃ¶dinger Equations to SchrÃ¶dingerâ€“Yukawa Equations. Multiscale Modeling and Simulation, 2010, 8, 1742-1769.	0.6	14
94	Subdiffusive spreading of a Bose-Einstein condensate in random potentials. Physical Review A, 2012, 86, .	1.0	14
95	Dimension Reduction of the SchrÃ¶dinger Equation with Coulomb and Anisotropic Confining Potentials. SIAM Journal on Applied Mathematics, 2013, 73, 2100-2123.	0.8	14
96	Numerical Study of Quantized Vortex Interactions in the Nonlinear SchrÃ¶dinger Equation on Bounded Domains. Multiscale Modeling and Simulation, 2014, 12, 411-439.	0.6	14
97	A fourth-order compact time-splitting Fourier pseudospectral method for the Dirac equation. Research in Mathematical Sciences, 2019, 6, 1.	0.5	14
98	Application of Onsager's variational principle to the dynamics of a solid toroidal island on a substrate. Acta Materialia, 2019, 163, 154-160.	3.8	14
99	An economical finite element approximation of generalized Newtonian flows. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 3637-3648.	3.4	13
100	An efficient and accurate MPI-based parallel simulator for streamer discharges in three dimensions. Journal of Computational Physics, 2020, 401, 109026.	1.9	13
101	Super-resolution of time-splitting methods for the Dirac equation in the nonrelativistic regime. Mathematics of Computation, 2020, 89, 2141-2173.	1.1	13
102	An energy-stable parametric finite element method for simulating solid-state dewetting. IMA Journal of Numerical Analysis, 2021, 41, 2026-2055.	1.5	13
103	Scattering and bound states in two-dimensional anisotropic potentials. Physical Review A, 2011, 84, .	1.0	12
104	An energy-stable parametric finite element method for anisotropic surface diffusion. Journal of Computational Physics, 2021, 446, 110658.	1.9	11
105	Error estimates for the finite element approximation of linear elastic equations in an unbounded domain. Mathematics of Computation, 2000, 70, 1437-1460.	1.1	10
106	Numerical Study of Quantized Vortex Interaction in the Ginzburg-Landau Equation on Bounded Domains. Communications in Computational Physics, 2013, 14, 819-850.	0.7	10
107	Controlling fingering instabilities in Hele-Shaw flows in the presence of wetting film effects. Physical Review E, 2021, 103, 063105.	0.8	10
108	Volume-preserving parametric finite element methods for axisymmetric geometric evolution equations. Journal of Computational Physics, 2022, 460, 111180.	1.9	10

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109	Nonlocal Artificial Boundary Conditions for the Incompressible Viscous Flow in a Channel Using Spectral Techniques. Journal of Computational Physics, 1996, 126, 52-63.	1.9	9
110	The discrete artificial boundary condition on a polygonal artificial boundary for the exterior problem of Poisson equation by using the direct method of lines. Computer Methods in Applied Mechanics and Engineering, 1999, 179, 345-360.	3.4	9
111	The direct method of lines for the problem of infinite elastic foundation. Computer Methods in Applied Mechanics and Engineering, 1999, 175, 157-173.	3.4	9
112	Uniform Error Bounds of Time-Splitting Methods for the Nonlinear Dirac Equation in the Nonrelativistic Regime without Magnetic Potential. SIAM Journal on Numerical Analysis, 2021, 59, 1040-1066.	1.1	9
113	Artificial boundary conditions for incompressible Navierâ€“Stokes equations: A well-posed result. Computer Methods in Applied Mechanics and Engineering, 2000, 188, 595-611.	3.4	8
114	Weakly compressible high-order I-stable central difference schemes for incompressible viscous flows. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 5009-5026.	3.4	8
115	Error bounds for the finite element approximation of an incompressible material in an unbounded domain. Numerische Mathematik, 2003, 93, 415-444.	0.9	8
116	Continuous configuration time-dependent self-consistent field method for polyatomic quantum dynamical problems. Journal of Chemical Physics, 2005, 122, 091101.	1.2	8
117	Effective dipole-dipole interactions in multilayered dipolar Bose-Einstein condensates. Physical Review A, 2013, 88, .	1.0	8
118	Solid-state dewetting on curved substrates. Physical Review Materials, 2018, 2, .	0.9	8
119	Numerical simulations of fracture problems by coupling the FEM and the direct method of lines. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 4831-4846.	3.4	7
120	Approximation and comparison for motion by mean curvature with intersection points. Computers and Mathematics With Applications, 2003, 46, 1211-1228.	1.4	7
121	Quantized vortex stability and interaction in the nonlinear wave equation. Physica D: Nonlinear Phenomena, 2008, 237, 2391-2410.	1.3	7
122	Self-trapping of Bose-Einstein condensates expanding into shallow optical lattices. Physical Review A, 2008, 77, .	1.0	7
123	Mean-field regime and Thomasâ€“Fermi approximations of trapped Boseâ€“Einstein condensates with higher-order interactions in one and two dimensions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 125304.	0.6	7
124	Triple junction drag effects during topological changes in the evolution of polycrystalline microstructures. Acta Materialia, 2017, 128, 345-350.	3.8	7
125	Error estimates of local energy regularization for the logarithmic SchrÃ¶dinger equation. Mathematical Models and Methods in Applied Sciences, 2022, 32, 101-136.	1.7	7
126	The random projection method for a model problem of combustion with stiff chemical reactions. Applied Mathematics and Computation, 2002, 130, 561-571.	1.4	6

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127	Collective synchronization of the multi-component Grossâ€“Pitaevskiiâ€“Lohe system. Physica D: Nonlinear Phenomena, 2019, 400, 132158.	1.3	6
128	Quantum kinetic theory: modelling and numerics for Bose-Einstein condensation. Modeling and Simulation in Science, Engineering and Technology, 2004, , 287-320.	0.4	6
129	Uniform error estimates of a finite difference method for the Klein-Gordon-SchrÃ¶dinger system in the nonrelativistic and massless limit regimes. Kinetic and Related Models, 2018, 11, 1037-1062.	0.5	6
130	The artificial boundary conditions for computing the flow around a submerged body. Computer Methods in Applied Mechanics and Engineering, 2000, 188, 473-482.	3.4	5
131	Computing Ground States of Bose–Einstein Condensates with Higher Order Interaction via a Regularized Density Function Formulation. SIAM Journal of Scientific Computing, 2019, 41, B1284-B1309.	1.3	5
132	Ground states of Boseâ€“Einstein condensates with higher order interaction. Physica D: Nonlinear Phenomena, 2019, 386-387, 38-48.	1.3	5
133	Error estimates on the random projection methods for hyperbolic conservation laws with stiff reaction terms. Applied Numerical Mathematics, 2002, 43, 315-333.	1.2	4
134	Dimension reduction for anisotropic Boseâ€“Einstein condensates in the strong interaction regime. Nonlinearity, 2015, 28, 755-772.	0.6	4
135	Mechanical transduction via a single soft polymer. Physical Review E, 2018, 97, 042504.	0.8	4
136	A Jacobi spectral method for computing eigenvalue gaps and their distribution statistics of the fractional SchrÃ¶dinger operator. Journal of Computational Physics, 2020, 421, 109733.	1.9	4
137	Dimension reduction for dipolar Bose-Einstein condensates in the strong interaction regime. Kinetic and Related Models, 2017, 10, 553-571.	0.5	4
138	Artificial boundary conditions for two-dimensional incompressible viscous flows around an obstacle. Computer Methods in Applied Mechanics and Engineering, 1997, 147, 263-273.	3.4	3
139	Error bounds for the finite-element approximation of the exterior Stokes equations in two dimensions. IMA Journal of Numerical Analysis, 2003, 23, 125-148.	1.5	3
140	The Kinematic Effects of the Defects in Liquid Crystal Dynamics. Communications in Computational Physics, 2016, 20, 234-249.	0.7	3
141	Ground states and dynamics of rotating Bose-Einstein condensates. , 2007, , 215-255.		3
142	Fundamental gaps of the fractional SchrÃ¶dinger operator. Communications in Mathematical Sciences, 2019, 17, 447-471.	0.5	3
143	Polymer-Based Accurate Positioning: An Exact Worm-like-Chain Study. ACS Omega, 2018, 3, 14318-14326.	1.6	2
144	Accurate and efficient calculation of photoionization in streamer discharges using fast multipole method. Plasma Sources Science and Technology, 2020, 29, 125010.	1.3	2

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145	Fundamental gaps of the Grossâ€“Pitaevskii equation with repulsive interaction. Asymptotic Analysis, 2018, 110, 53-82.	0.2	1
146	The Random Projection Method for Stiff Multi-species Detonation Computation. , 2001, , 139-148.		0
147	Preface: Special Issue Dedicated to Professor Eitan Tadmor's 60th Birthday. Communications in Computational Physics, 2016, 19, i-iii.	0.7	0