Qinglin Tang

List of Publications by Year
in descending order

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27 papers	630 citations	516710 16 h-index	580821 25 g-index
27 all docs	27 docs citations	27 times ranked	313 citing authors

#	Article	IF	Citations
1	Error estimates of local energy regularization for the logarithmic SchrÃ¶dinger equation. Mathematical Models and Methods in Applied Sciences, 2022, 32, 101-136.	3.3	7
2	A Spectrally Accurate Numerical Method for Computing the Bogoliubov--de Gennes Excitations of Dipolar Bose--Einstein Condensates. SIAM Journal of Scientific Computing, 2022, 44, B100-B121.	2.8	1
3	Scalar Auxiliary Variable/Lagrange multiplier based pseudospectral schemes for the dynamics of nonlinear SchrÃ¶dinger/Gross-Pitaevskii equations. Journal of Computational Physics, 2021, 437, 110328.	3.8	25
4	BEC2HPC: A HPC spectral solver for nonlinear SchrÃ¶dinger and rotating Gross-Pitaevskii equations. Stationary states computation. Computer Physics Communications, 2021, 265, 108007.	7.5	4
5	Perfectly matched layer for computing the dynamics of nonlinear SchrÃ¶dinger equations by pseudospectral methods. Application to rotating Bose-Einstein condensates. Communications in Nonlinear Science and Numerical Simulation, 2020, 90, 105406.	3.3	17
6	Spin soliton with a negative-positive mass transition. Physical Review A, 2020, 101, .	2.5	18
7	Collective synchronization of the multi-component Grossâ€“Pitaevskiiâ€“Lohe system. Physica D: Nonlinear Phenomena, 2019, 400, 132158.	2.8	6
8	Regularized numerical methods for the logarithmic SchrÃ¶dinger equation. Numerische Mathematik, 2019, 143, 461-487.	1.9	22
9	Error Estimates of a Regularized Finite Difference Method for the Logarithmic SchrÃ¶dinger Equation. SIAM Journal on Numerical Analysis, 2019, 57, 657-680.	2.3	31
10	On the numerical solution and dynamical laws of nonlinear fractional SchrÃ¶dinger/Grossâ€“Pitaevskii equations. International Journal of Computer Mathematics, 2018, 95, 1423-1443.	1.8	21
11	A Preconditioned Conjugated Gradient Method for Computing Ground States of Rotating Dipolar Bose-Einstein Condensates via Kernel Truncation Method for Dipole-Dipole Interaction Evaluation. Communications in Computational Physics, 2018, 24, .	1.7	17
12	The Numerical Study of the Ground States of Spin-1 Bose-Einstein Condensates with Spin-Orbit-Coupling. East Asian Journal on Applied Mathematics, 2018, 8, 598-610.	0.9	1
13	A friendly review of absorbing boundary conditions and perfectly matched layers for classical and relativistic quantum waves equations. Molecular Physics, 2017, 115, 1861-1879.	1.7	48
14	Efficient spectral computation of the stationary states of rotating Boseâ€“Einstein condensates by preconditioned nonlinear conjugate gradient methods. Journal of Computational Physics, 2017, 343, 92-109.	3.8	57
15	Numerical Methods and Comparison for the Dirac Equation in the Nonrelativistic Limit Regime. Journal of Scientific Computing, 2017, 71, 1094-1134.	2.3	42
16	A robust and efficient numerical method to compute the dynamics of the rotating two-component dipolar Boseâ€“Einstein condensates. Computer Physics Communications, 2017, 219, 223-235.	7.5	8
17	On the ground states and dynamics of space fractional nonlinear SchrÃ¶dinger/Grossâ€“Pitaevskii equations with rotation term and nonlocal nonlinear interactions. Journal of Computational Physics, 2016, 325, 74-97.	3.8	41
18	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.	1.7	24

#	Article	IF	Citations
19	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.	2.3	25
20	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.	3.8	25
21	An efficient spectral method for computing dynamics of rotating two-component Boseâ€“Einstein condensates via coordinate transformation. Journal of Computational Physics, 2014, 258, 538-554.	3.8	14
22	Numerical Study of Quantized Vortex Interactions in the Nonlinear SchrÃ¶dinger Equation on Bounded Domains. Multiscale Modeling and Simulation, 2014, 12, 411-439.	1.6	14
23	A variational-difference numerical method for designing progressive-addition lenses. CAD Computer Aided Design, 2014, 48, 17-27.	2.7	42
24	Numerical methods and comparison for computing dark and bright solitons in the nonlinear SchrÃ¶dinger equation. Journal of Computational Physics, 2013, 235, 423-445.	3.8	79
25	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.	2.8	29
26	Numerical study of quantized vortex interaction in complex Ginzburgâ€“Landau equation on bounded domains. Applied Mathematics and Computation, 2013, 222, 210-230.	2.2	2
27	Numerical Study of Quantized Vortex Interaction in the Ginzburg-Landau Equation on Bounded Domains. Communications in Computational Physics, 2013, 14, 819-850.	1.7	10