

Qinglin Tang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2665448/publications.pdf>

Version: 2024-02-01

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	Numerical methods and comparison for computing dark and bright solitons in the nonlinear Schrödinger equation. <i>Journal of Computational Physics</i> , 2013, 235, 423-445.	3.8	79
2	Efficient spectral computation of the stationary states of rotating Bose-Einstein condensates by preconditioned nonlinear conjugate gradient methods. <i>Journal of Computational Physics</i> , 2017, 343, 92-109.	3.8	57
3	A friendly review of absorbing boundary conditions and perfectly matched layers for classical and relativistic quantum waves equations. <i>Molecular Physics</i> , 2017, 115, 1861-1879.	1.7	48
4	A variational-difference numerical method for designing progressive-addition lenses. <i>CAD Computer Aided Design</i> , 2014, 48, 17-27.	2.7	42
5	Numerical Methods and Comparison for the Dirac Equation in the Nonrelativistic Limit Regime. <i>Journal of Scientific Computing</i> , 2017, 71, 1094-1134.	2.3	42
6	On the ground states and dynamics of space fractional nonlinear Schrödinger/Gross-Pitaevskii equations with rotation term and nonlocal nonlinear interactions. <i>Journal of Computational Physics</i> , 2016, 325, 74-97.	3.8	41
7	Error Estimates of a Regularized Finite Difference Method for the Logarithmic Schrödinger Equation. <i>SIAM Journal on Numerical Analysis</i> , 2019, 57, 657-680.	2.3	31
8	A Simple and Efficient Numerical Method for Computing the Dynamics of Rotating Bose-Einstein Condensates via Rotating Lagrangian Coordinates. <i>SIAM Journal of Scientific Computing</i> , 2013, 35, A2671-A2695.	2.8	29
9	Computing the ground state and dynamics of the nonlinear Schrödinger equation with nonlocal interactions via the nonuniform FFT. <i>Journal of Computational Physics</i> , 2015, 296, 72-89.	3.8	25
10	A Uniformly Accurate Multiscale Time Integrator Pseudospectral Method for the Dirac Equation in the Nonrelativistic Limit Regime. <i>SIAM Journal on Numerical Analysis</i> , 2016, 54, 1785-1812.	2.3	25
11	Scalar Auxiliary Variable/Lagrange multiplier based pseudospectral schemes for the dynamics of nonlinear Schrödinger/Gross-Pitaevskii equations. <i>Journal of Computational Physics</i> , 2021, 437, 110328.	3.8	25
12	Accurate and Efficient Numerical Methods for Computing Ground States and Dynamics of Dipolar Bose-Einstein Condensates via the Nonuniform FFT. <i>Communications in Computational Physics</i> , 2016, 19, 1141-1166.	1.7	24
13	Regularized numerical methods for the logarithmic Schrödinger equation. <i>Numerische Mathematik</i> , 2019, 143, 461-487.	1.9	22
14	On the numerical solution and dynamical laws of nonlinear fractional Schrödinger/Gross-Pitaevskii equations. <i>International Journal of Computer Mathematics</i> , 2018, 95, 1423-1443.	1.8	21
15	Spin soliton with a negative-positive mass transition. <i>Physical Review A</i> , 2020, 101, .	2.5	18
16	Perfectly matched layer for computing the dynamics of nonlinear Schrödinger equations by pseudospectral methods. Application to rotating Bose-Einstein condensates. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 90, 105406.	3.3	17
17	A Preconditioned Conjugated Gradient Method for Computing Ground States of Rotating Dipolar Bose-Einstein Condensates via Kernel Truncation Method for Dipole-Dipole Interaction Evaluation. <i>Communications in Computational Physics</i> , 2018, 24, .	1.7	17
18	An efficient spectral method for computing dynamics of rotating two-component Bose-Einstein condensates via coordinate transformation. <i>Journal of Computational Physics</i> , 2014, 258, 538-554.	3.8	14

#	ARTICLE	IF	CITATIONS
19	Numerical Study of Quantized Vortex Interactions in the Nonlinear Schrödinger Equation on Bounded Domains. <i>Multiscale Modeling and Simulation</i> , 2014, 12, 411-439.	1.6	14
20	Numerical Study of Quantized Vortex Interaction in the Ginzburg-Landau Equation on Bounded Domains. <i>Communications in Computational Physics</i> , 2013, 14, 819-850.	1.7	10
21	A robust and efficient numerical method to compute the dynamics of the rotating two-component dipolar Bose-Einstein condensates. <i>Computer Physics Communications</i> , 2017, 219, 223-235.	7.5	8
22	Error estimates of local energy regularization for the logarithmic Schrödinger equation. <i>Mathematical Models and Methods in Applied Sciences</i> , 2022, 32, 101-136.	3.3	7
23	Collective synchronization of the multi-component Gross-Pitaevskii-Lohe system. <i>Physica D: Nonlinear Phenomena</i> , 2019, 400, 132158.	2.8	6
24	BEC2HPC: A HPC spectral solver for nonlinear Schrödinger and rotating Gross-Pitaevskii equations. Stationary states computation. <i>Computer Physics Communications</i> , 2021, 265, 108007.	7.5	4
25	Numerical study of quantized vortex interaction in complex Ginzburg-Landau equation on bounded domains. <i>Applied Mathematics and Computation</i> , 2013, 222, 210-230.	2.2	2
26	The Numerical Study of the Ground States of Spin-1 Bose-Einstein Condensates with Spin-Orbit-Coupling. <i>East Asian Journal on Applied Mathematics</i> , 2018, 8, 598-610.	0.9	1
27	A Spectrally Accurate Numerical Method for Computing the Bogoliubov-de Gennes Excitations of Dipolar Bose-Einstein Condensates. <i>SIAM Journal of Scientific Computing</i> , 2022, 44, B100-B121.	2.8	1