

Tingchun Wang

List of Publications by Year in descending order

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papers

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citations

471061

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45
all docs

45
docs citations

45
times ranked

343
citing authors

#	ARTICLE	IF	CITATIONS
1	A second-order finite difference scheme for the multi-dimensional nonlinear time-fractional Schrödinger equation. Numerical Algorithms, 2023, 92, 1153-1182.	1.1	4
2	A fourth-order compact finite difference scheme for the quantum Zakharov system that perfectly inherits both mass and energy conservation. Applied Numerical Mathematics, 2022, 178, 1-24.	1.2	3
3	A mass and energy conservative fourth-order compact difference scheme for the Klein-Gordon-Dirac equations. Calcolo, 2022, 59, 1.	0.6	2
4	Two Energy-Preserving Compact Finite Difference Schemes for the Nonlinear Fourth-Order Wave Equation. Communications on Applied Mathematics and Computation, 2022, 4, 1509-1530.	0.7	1
5	Uniform error bound of a conservative fourth-order compact finite difference scheme for the Zakharov system in the subsonic regime. Advances in Computational Mathematics, 2022, 48, .	0.8	2
6	An efficient and accurate Fourier pseudo-spectral method for the nonlinear Schrödinger equation with wave operator. International Journal of Computer Mathematics, 2021, 98, 340-356.	1.0	6
7	Optimal error estimates of fourth-order compact finite difference methods for the nonlinear Klein-Gordon equation in the nonrelativistic regime. Numerical Methods for Partial Differential Equations, 2021, 37, 2089-2108.	2.0	3
8	Optimal point-wise error estimate of two conservative fourth-order compact finite difference schemes for the nonlinear Dirac equation. Applied Numerical Mathematics, 2021, 162, 150-170.	1.2	15
9	Analysis of a conservative fourth-order compact finite difference scheme for the Klein-Gordon-Dirac equation. Computational and Applied Mathematics, 2021, 40, 1.	1.0	9
10	Two completely explicit and unconditionally convergent Fourier pseudo-spectral methods for solving the nonlinear Schrödinger equation. Journal of Computational Physics, 2020, 404, 109116.	1.9	20
11	Two energy-conserving and compact finite difference schemes for two-dimensional Schrödinger-Boussinesq equations. Numerical Algorithms, 2020, 85, 1335-1363.	1.1	13
12	Optimal H^2 -error estimates of conservative compact difference scheme for the Zakharov equation in two-space dimension. Mathematical Methods in the Applied Sciences, 2019, 42, 3088-3102.	1.2	2
13	Unconditional convergence of a conservative compact finite difference scheme for the N-coupled Schrödinger-Boussinesq equations. Applied Numerical Mathematics, 2019, 138, 54-77.	1.2	9
14	Unconditional convergence of linearized implicit finite difference method for the 2D/3D Gross-Pitaevskii equation with angular momentum rotation. Science China Mathematics, 2019, 62, 1669-1686.	0.8	8
15	Two numerical methods for the Zakharov-Rubenchik equations. Advances in Computational Mathematics, 2019, 45, 1163-1184.	0.8	4
16	An efficient and conservative compact finite difference scheme for the coupled Gross-Pitaevskii equations describing spin-1 Bose-Einstein condensate. Applied Mathematics and Computation, 2018, 323, 164-181.	1.4	5
17	Unconditional and optimal H^2 -error estimates of two linear and conservative finite difference schemes for the Klein-Gordon-Schrödinger equation in high dimensions. Advances in Computational Mathematics, 2018, 44, 477-503.	0.8	41
18	Unconditional and optimal H^1 error estimate of a Crank-Nicolson finite difference scheme for the Gross-Pitaevskii equation with an angular momentum rotation term. Journal of Mathematical Analysis and Applications, 2018, 459, 945-958.	0.5	11

#	ARTICLE	IF	CITATIONS
19	Unconditional L^∞ -convergence of two compact conservative finite difference schemes for the nonlinear Schrödinger equation in multi-dimensions. <i>Calcolo</i> , 2018, 55, 1.	0.6	11
20	Optimal error estimate of a compact scheme for nonlinear Schrödinger equation. <i>Applied Numerical Mathematics</i> , 2017, 120, 68-81.	1.2	9
21	A linearized, decoupled, and energy-preserving compact finite difference scheme for the coupled nonlinear Schrödinger equations. <i>Numerical Methods for Partial Differential Equations</i> , 2017, 33, 840-867.	2.0	19
22	Uniform point-wise error estimates of semi-implicit compact finite difference methods for the nonlinear Schrödinger equation perturbed by wave operator. <i>Journal of Mathematical Analysis and Applications</i> , 2015, 422, 286-308.	0.5	18
23	Optimal Point-Wise Error Estimate of a Compact Finite Difference Scheme for the Coupled Nonlinear Schrödinger Equations. <i>Journal of Computational Mathematics</i> , 2014, 32, 58-74.	0.2	17
24	Optimal Point-Wise Error Estimate of a Compact Difference Scheme for the Coupled Gross-Pitaevskii Equations in One Dimension. <i>Journal of Scientific Computing</i> , 2014, 59, 158-186.	1.1	47
25	Optimal L^∞ error estimates of finite difference methods for the coupled Gross-Pitaevskii equations in high dimensions. <i>Science China Mathematics</i> , 2014, 57, 2189-2214.	0.8	37
26	Optimal point-wise error estimate of a compact difference scheme for the Klein-Gordon-Schrödinger equation. <i>Journal of Mathematical Analysis and Applications</i> , 2014, 412, 155-167.	0.5	48
27	Existence of generalized heteroclinic solutions of the coupled Schrödinger system under a small perturbation. <i>Chinese Annals of Mathematics Series B</i> , 2014, 35, 857-872.	0.2	0
28	Fourth-order compact and energy conservative difference schemes for the nonlinear Schrödinger equation in two dimensions. <i>Journal of Computational Physics</i> , 2013, 243, 382-399.	1.9	158
29	Convergence of an efficient and compact finite difference scheme for the Klein-Gordon-Zakharov equation. <i>Applied Mathematics and Computation</i> , 2013, 221, 433-443.	1.4	10
30	Numerical computations for N-coupled nonlinear Schrödinger equations by split step spectral methods. <i>Applied Mathematics and Computation</i> , 2013, 222, 438-452.	1.4	10
31	TRAVELING WAVE SOLUTIONS OF THE GREEN-NAGHDI SYSTEM. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2013, 23, 1350087.	0.7	5
32	Point-wise errors of two conservative difference schemes for the Klein-Gordon-Schrödinger equation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 4565-4575.	1.7	28
33	Convergence of an Eighth-Order Compact Difference Scheme for the Nonlinear Schrödinger Equation. <i>Advances in Numerical Analysis</i> , 2012, 2012, 1-24.	0.2	13
34	SOME TRAVELING WAVE SOLITONS OF THE GREEN-NAGHDI SYSTEM. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2011, 21, 575-585.	0.7	6
35	Maximum norm error bound of a linearized difference scheme for a coupled nonlinear Schrödinger equations. <i>Journal of Computational and Applied Mathematics</i> , 2011, 235, 4237-4250.	1.1	25
36	Analysis of some finite difference schemes for two-dimensional Ginzburg-Landau equation. <i>Numerical Methods for Partial Differential Equations</i> , 2011, 27, 1340-1363.	2.0	53

#	ARTICLE	IF	CITATIONS
37	Convergence of a nonlinear finite difference scheme for the Kuramoto-Tsuzuki equation. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 2620-2627.	1.7	5
38	Convergence of a nonlinear finite difference scheme for the Kuramoto-Tsuzuki equation. Scientia Sinica Mathematica, 2011, 44, 1620-1627.		
39	New conservative difference schemes for a coupled nonlinear Schrödinger system. Applied Mathematics and Computation, 2010, 217, 1604-1619.	1.4	62
40	Analysis of a symplectic difference scheme for a coupled nonlinear Schrödinger system. Journal of Computational and Applied Mathematics, 2009, 231, 745-759.	1.1	27
41	A robust semi-explicit difference scheme for the Kuramoto-Tsuzuki equation. Journal of Computational and Applied Mathematics, 2009, 233, 878-888.	1.1	26
42	Numerical simulation of a nonlinearly coupled Schrödinger system: A linearly uncoupled finite difference scheme. Mathematics and Computers in Simulation, 2008, 79, 607-621.	2.4	16
43	Numerical analysis of a multi-symplectic scheme for a strongly coupled Schrödinger system. Applied Mathematics and Computation, 2008, 203, 413-431.	1.4	9
44	Conservative difference methods for the Klein-Gordon-Zakharov equations. Journal of Computational and Applied Mathematics, 2007, 205, 430-452.	1.1	112
45	Conservative schemes for the symmetric Regularized Long Wave equations. Applied Mathematics and Computation, 2007, 190, 1063-1080.	1.4	29