## Xiaofei Zhao

List of Publications by Year in descending order

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Χιλοεει Ζηλο

#	Article	IF	CITATIONS
1	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.	2.3	63
2	An Exponential Wave Integrator Sine Pseudospectral Method for the Klein–Gordon–Zakharov System. SIAM Journal of Scientific Computing, 2013, 35, A2903-A2927.	2.8	54
3	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.	1.6	41
4	Optimal l â^ž error estimates of finite difference methods for the coupled Gross-Pitaevskii equations in high dimensions. Science China Mathematics, 2014, 57, 2189-2214.	1.7	37
5	A uniformly accurate (UA) multiscale time integrator Fourier pseudospectral method for the Klein–Gordon–SchrĶdinger equations in the nonrelativistic limit regime. Numerische Mathematik, 2017, 135, 833-873.	1.9	35
6	On error estimates of an exponential wave integrator sine pseudospectral method for the <scp>K</scp> lein– <scp>G</scp> ordon– <scp>Z</scp> akharov system. Numerical Methods for Partial Differential Equations, 2016, 32, 266-291.	3.6	31
7	A uniformly accurate multiscale time integrator spectral method for the Klein–Gordon–Zakharov system in the high-plasma-frequency limit regime. Journal of Computational Physics, 2016, 327, 270-293.	3.8	28
8	Comparison of numerical methods for the nonlinear Klein-Gordon equation in the nonrelativistic limit regime. Journal of Computational Physics, 2019, 398, 108886.	3.8	26
9	Error Estimates of Some Splitting Schemes for Charged-Particle Dynamics under Strong Magnetic Field. SIAM Journal on Numerical Analysis, 2021, 59, 2075-2105.	2.3	25
10	Uniformly accurate Particle-in-Cell method for the long time solution of the two-dimensional Vlasov–Poisson equation with uniform strong magnetic field. Journal of Computational Physics, 2017, 346, 172-190.	3.8	24
11	Low-regularity integrators for nonlinear Dirac equations. Mathematics of Computation, 2020, 90, 189-214.	2.1	24
12	On Time-Splitting Pseudospectral Discretization for Nonlinear Klein-Gordon Equation in Nonrelativistic Limit Regime. Communications in Computational Physics, 2014, 16, 440-466.	1.7	21
13	Uniformly accurate numerical schemes for the nonlinear Dirac equation in the nonrelativistic limit regime. Communications in Mathematical Sciences, 2017, 15, 1107-1128.	1.0	19
14	Scalar-field theory of dark matter. International Journal of Modern Physics A, 2014, 29, 1450074.	1.5	18
15	Uniformly Accurate Methods for Three Dimensional Vlasov Equations under Strong Magnetic Field with Varying Direction. SIAM Journal of Scientific Computing, 2020, 42, B520-B547.	2.8	15
16	Uniformly accurate methods for Vlasov equations with non-homogeneous strong magnetic field. Mathematics of Computation, 2019, 88, 2697-2736.	2.1	14
17	An Exponential Wave Integrator Pseudospectral Method for the Symmetric Regularized-Long-Wave Equation. Journal of Computational Mathematics, 2016, 34, 49-69.	0.4	14
18	Embedded exponential-type low-regularity integrators for KdV equation under rough data. BIT Numerical Mathematics, 2022, 62, 1049-1090.	2.0	13

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19	Optimal convergence of a second-order low-regularity integrator for the KdV equation. IMA Journal of Numerical Analysis, 2022, 42, 3499-3528.	2.9	12
20	Unconditional \$\$L^{infty }\$\$ L â^ž -convergence of two compact conservative finite difference schemes for the nonlinear SchrA¶dinger equation in multi-dimensions. Calcolo, 2018, 55, 1.	1.1	11
21	Uniformly Accurate Forward Semi-Lagrangian Methods for Highly Oscillatory Vlasov–Poisson Equations. Multiscale Modeling and Simulation, 2017, 15, 723-744.	1.6	10
22	Numerical methods for the two-dimensional Vlasov–Poisson equation in the finite Larmor radius approximation regime. Journal of Computational Physics, 2018, 375, 619-640.	3.8	9
23	A symmetric low-regularity integrator for nonlinear Klein-Gordon equation. Mathematics of Computation, 2022, 91, 2215-2245.	2.1	9
24	Numerical Methods and Simulations for the Dynamics of One-Dimensional Zakharov–Rubenchik Equations. Journal of Scientific Computing, 2014, 59, 412-438.	2.3	8
25	Multiscale Particle-in-Cell methods and comparisons for the long-time two-dimensional Vlasov–Poisson equation with strong magnetic field. Computer Physics Communications, 2018, 222, 136-151.	7.5	8
26	A combination of multiscale time integrator and two-scale formulation for the nonlinear Schrödinger equation with wave operator. Journal of Computational and Applied Mathematics, 2017, 326, 320-336.	2.0	7
27	On multichannel solutions of nonlinear SchrĶdinger equations: algorithm, analysis and numerical explorations. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 135201.	2.1	6
28	On time-splitting methods for nonlinear SchrĶdinger equation with highly oscillatory potential. ESAIM: Mathematical Modelling and Numerical Analysis, 2020, 54, 1491-1508.	1.9	6
29	Derivative-free high-order uniformly accurate schemes for highly oscillatory systems. IMA Journal of Numerical Analysis, 2022, 42, 1623-1644.	2.9	6
30	An Embedded Exponential-Type Low-Regularity Integrator for mKdV Equation. SIAM Journal on Numerical Analysis, 2022, 60, 999-1025.	2.3	6
31	Uniformly accurate multiscale time integrators for second order oscillatory differential equations with large initial data. BIT Numerical Mathematics, 2017, 57, 649-683.	2.0	5
32	On the Rotating Nonlinear KleinGordon Equation: NonRelativistic Limit and Numerical Methods. Multiscale Modeling and Simulation, 2020, 18, 999-1024.	1.6	5
33	Splitting methods for nonlinear Dirac equations with Thirring type interaction in the nonrelativistic limit regime. Journal of Computational and Applied Mathematics, 2021, 387, 112494.	2.0	5
34	A uniformly first-order accurate method for Klein-Gordon-Zakharov system in simultaneous high-plasma-frequency and subsonic limit regime. Journal of Computational Physics, 2021, 428, 110064.	3.8	5
35	Numerical Integrators for Continuous Disordered Nonlinear SchrĶdinger Equation. Journal of Scientific Computing, 2021, 89, 1.	2.3	3
36	A modulation equations approach for numerically solving the moving soliton and radiation solutions of NLS. Physica D: Nonlinear Phenomena, 2016, 320, 77-88.	2.8	2

#	Article	IF	CITATIONS
37	Modulation equations approach for solving vortex and radiation in nonlinear Schrödinger equation. IMA Journal of Applied Mathematics, 2018, 83, 496-513.	1.6	1
38	Pseudospectral methods with PML for nonlinear Klein-Gordon equations in classical and non-relativistic regimes. Journal of Computational Physics, 2022, 448, 110728.	3.8	1