

# Wenjun Cai

## List of Publications by Year in descending order

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21  
papers

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citations

1040056

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h-index

940533

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g-index

21  
all docs

21  
docs citations

21  
times ranked

111  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure-preserving algorithms for the two-dimensional sine-Gordon equation with Neumann boundary conditions. <i>Journal of Computational Physics</i> , 2019, 395, 166-185.	3.8	63
2	A Linearly Implicit and Local Energy-Preserving Scheme for the Sine-Gordon Equation Based on the Invariant Energy Quadraticization Approach. <i>Journal of Scientific Computing</i> , 2019, 80, 1629-1655.	2.3	47
3	Partitioned averaged vector field methods. <i>Journal of Computational Physics</i> , 2018, 370, 25-42.	3.8	36
4	A linearly implicit energy-preserving exponential integrator for the nonlinear Klein-Gordon equation. <i>Journal of Computational Physics</i> , 2020, 419, 109690.	3.8	25
5	Discontinuous Galerkin methods for Hamiltonian ODEs and PDEs. <i>Journal of Computational Physics</i> , 2017, 330, 340-364.	3.8	17
6	Structure-preserving algorithms for the two-dimensional fractional Klein-Gordon-Schrödinger equation. <i>Applied Numerical Mathematics</i> , 2020, 156, 77-93.	2.1	17
7	An explicit structure-preserving algorithm for the nonlinear fractional Hamiltonian wave equation. <i>Applied Mathematics Letters</i> , 2020, 102, 106123.	2.7	14
8	Variational discretizations for the generalized Rosenau-type equations. <i>Applied Mathematics and Computation</i> , 2015, 271, 860-873.	2.2	13
9	Fast dissipation-preserving difference scheme for nonlinear generalized wave equations with the integral fractional Laplacian. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 99, 105786.	3.3	13
10	An efficient energy-preserving method for the two-dimensional fractional Schrödinger equation. <i>Applied Numerical Mathematics</i> , 2021, 165, 232-247.	2.1	7
11	Dissipation-preserving spectral element method for damped seismic wave equations. <i>Journal of Computational Physics</i> , 2017, 350, 260-279.	3.8	5
12	Local discontinuous Galerkin methods based on the multisymplectic formulation for two kinds of Hamiltonian PDEs. <i>International Journal of Computer Mathematics</i> , 2018, 95, 114-143.	1.8	5
13	Efficient Energy-Preserving Exponential Integrators for Multi-component Hamiltonian Systems. <i>Journal of Scientific Computing</i> , 2022, 92, .	2.3	4
14	Modelling damped acoustic waves by a dissipation-preserving conformal symplectic method. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20160798.	2.1	3
15	Arbitrary high-order linearly implicit energy-preserving algorithms for Hamiltonian PDEs. <i>Numerical Algorithms</i> , 2022, 90, 1519-1546.	1.9	3
16	A general symplectic scheme with three free parameters and its applications. <i>Applied Mathematics Letters</i> , 2021, 112, 106792.	2.7	2
17	Explicit high-order energy-preserving exponential time differencing method for nonlinear Hamiltonian PDEs. <i>Applied Mathematics and Computation</i> , 2021, 404, 126208.	2.2	2
18	Two linearly implicit energy preserving exponential scalar auxiliary variable approaches for multi-dimensional fractional nonlinear Schrödinger equations. <i>Applied Mathematics Letters</i> , 2021, 122, 107544.	2.7	1

#	ARTICLE	IF	CITATIONS
19	Exponential integrator preserving mass boundedness and energy conservation for nonlinear Schrödinger equation. Applied Numerical Mathematics, 2022, 173, 308-328.	2.1	1
20	Linear-implicit and energy-preserving schemes for the Benjamin-type equations. International Journal of Computer Mathematics, 2020, 97, 2191-2209.	1.8	0
21	The exponential invariant energy quadratization approach for general multi-symplectic Hamiltonian PDEs. Journal of Computational and Applied Mathematics, 2021, , 113955.	2.0	0