

Yushun Wang

List of Publications by Year in descending order

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62
papers

842
citations

516710

16
h-index

526287

27
g-index

62
all docs

62
docs citations

62
times ranked

322
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A conservative Fourier pseudo-spectral method for the nonlinear Schrödinger equation. Journal of Computational Physics, 2017, 328, 354-370. | 3.8 | 106 |
| 2 | Some new structure-preserving algorithms for general multi-symplectic formulations of Hamiltonian PDEs. Journal of Computational Physics, 2014, 279, 80-102. | 3.8 | 67 |
| 3 | A Linearly Implicit and Local Energy-Preserving Scheme for the Sine-Gordon Equation Based on the Invariant Energy Quadraticization Approach. Journal of Scientific Computing, 2019, 80, 1629-1655. | 2.3 | 47 |
| 4 | Local energy-preserving and momentum-preserving algorithms for coupled nonlinear Schrödinger system. Journal of Computational Physics, 2013, 239, 30-50. | 3.8 | 44 |
| 5 | Multi-Symplectic Fourier Pseudospectral Method for the Kawahara Equation. Communications in Computational Physics, 2014, 16, 35-55. | 1.7 | 43 |
| 6 | Local structure-preserving algorithms for partial differential equations. Science in China Series A: Mathematics, 2008, 51, 2115-2136. | 0.5 | 41 |
| 7 | A new parallel genetic algorithm for solving multiobjective scheduling problems subjected to special process constraint. International Journal of Advanced Manufacturing Technology, 2009, 43, 151-160. | 3.0 | 33 |
| 8 | Local structure-preserving algorithms for the "good" Boussinesq equation. Journal of Computational Physics, 2013, 239, 72-89. | 3.8 | 30 |
| 9 | High-order multi-symplectic schemes for the nonlinear Klein-Gordon equation. Applied Mathematics and Computation, 2005, 166, 608-632. | 2.2 | 26 |
| 10 | A linearly implicit energy-preserving exponential integrator for the nonlinear Klein-Gordon equation. Journal of Computational Physics, 2020, 419, 109690. | 3.8 | 25 |
| 11 | New schemes for the coupled nonlinear Schrödinger equation. International Journal of Computer Mathematics, 2010, 87, 775-787. | 1.8 | 23 |
| 12 | Multisymplectic Euler Box Scheme for the KdV Equation. Chinese Physics Letters, 2007, 24, 312-314. | 3.3 | 21 |
| 13 | Optimal error estimate of a linear Fourier pseudo-spectral scheme for two dimensional Klein-Gordon-Schrödinger equations. Journal of Mathematical Analysis and Applications, 2018, 468, 817-838. | 1.0 | 21 |
| 14 | Numerical implementation of the multisymplectic Preissman scheme and its equivalent schemes. Applied Mathematics and Computation, 2004, 149, 299-326. | 2.2 | 20 |
| 15 | Multisymplectic Geometry and Multisymplectic Scheme for the Nonlinear Klein Gordon Equation. Journal of the Physical Society of Japan, 2001, 70, 653-661. | 1.6 | 17 |
| 16 | New multisymplectic self-adjoint scheme and its composition scheme for the time-domain Maxwell's equations. Journal of Mathematical Physics, 2006, 47, 123508. | 1.1 | 16 |
| 17 | A Linearly Implicit Structure-Preserving Scheme for the Camassa-Holm Equation Based on Multiple Scalar Auxiliary Variables Approach. Journal of Scientific Computing, 2020, 83, 1. | 2.3 | 16 |
| 18 | Multisymplectic Preissman scheme for the time-domain Maxwell's equations. Journal of Mathematical Physics, 2009, 50, 033510. | 1.1 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | An energy-preserving Crank-Nicolson Galerkin spectral element method for the two dimensional nonlinear Schrödinger equation. Journal of Computational and Applied Mathematics, 2018, 344, 245-258. | 2.0 | 13 |
| 20 | Arbitrarily high-order structure-preserving schemes for the Gross-Pitaevskii equation with angular momentum rotation. Computer Physics Communications, 2021, 261, 107767. | 7.5 | 13 |
| 21 | GPU-accelerated preconditioned GMRES method for two-dimensional Maxwell's equations. International Journal of Computer Mathematics, 2017, 94, 2122-2144. | 1.8 | 13 |
| 22 | An Explicit Scheme for the KdV Equation. Chinese Physics Letters, 2008, 25, 2335-2338. | 3.3 | 12 |
| 23 | Multi-symplectic Birkhoffian structure for PDEs with dissipation terms. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2410-2416. | 2.1 | 11 |
| 24 | An Energy-Preserving Wavelet Collocation Method for General Multi-Symplectic Formulations of Hamiltonian PDEs. Communications in Computational Physics, 2016, 20, 1313-1339. | 1.7 | 11 |
| 25 | Numerical dispersion analysis of a multi-symplectic scheme for the three dimensional Maxwell's equations. Journal of Computational Physics, 2013, 234, 330-352. | 3.8 | 10 |
| 26 | Numerical analysis of a new conservative scheme for the coupled nonlinear Schrödinger equations. International Journal of Computer Mathematics, 2018, 95, 1583-1608. | 1.8 | 10 |
| 27 | On multi-symplectic partitioned Runge-Kutta methods for Hamiltonian wave equations. Applied Mathematics and Computation, 2006, 177, 36-43. | 2.2 | 9 |
| 28 | A new local energy-preserving algorithm for the BBM equation. Applied Mathematics and Computation, 2018, 324, 119-130. | 2.2 | 9 |
| 29 | Optimal error estimate of a conformal Fourier pseudo-spectral method for the damped nonlinear Schrödinger equation. Numerical Methods for Partial Differential Equations, 2018, 34, 1422-1454. | 3.6 | 9 |
| 30 | Local structure-preserving algorithms for general multi-symplectic Hamiltonian PDEs. Computer Physics Communications, 2019, 235, 210-220. | 7.5 | 9 |
| 31 | Explicit high-order energy-preserving methods for general Hamiltonian partial differential equations. Journal of Computational and Applied Mathematics, 2021, 388, 113298. | 2.0 | 9 |
| 32 | High Order Symplectic Schemes for the Sine-Gordon Equation*. Journal of the Physical Society of Japan, 2003, 72, 2731-2736. | 1.6 | 8 |
| 33 | Efficient local energy dissipation preserving algorithms for the Cahn-Hilliard equation. Journal of Computational Physics, 2018, 374, 654-667. | 3.8 | 7 |
| 34 | An efficient energy-preserving method for the two-dimensional fractional Schrödinger equation. Applied Numerical Mathematics, 2021, 165, 232-247. | 2.1 | 7 |
| 35 | A discrete line integral method of order two for the Lorentz force system. Applied Mathematics and Computation, 2016, 291, 207-212. | 2.2 | 6 |
| 36 | An averaged vector field Legendre spectral element method for the nonlinear Schrödinger equation. International Journal of Computer Mathematics, 2017, 94, 1196-1218. | 1.8 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Concatenating construction of the multisymplectic schemes for 2+1-dimensional sine-Gordon equation. <i>Science in China Series A: Mathematics</i> , 2004, 41, 18. | 0.5 | 5 |
| 38 | Dissipation-preserving spectral element method for damped seismic wave equations. <i>Journal of Computational Physics</i> , 2017, 350, 260-279. | 3.8 | 5 |
| 39 | A novel energy-preserving scheme for the coupled nonlinear Schrödinger equations. <i>International Journal of Computer Mathematics</i> , 2018, 95, 61-81. | 1.8 | 5 |
| 40 | 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 |
| 41 | On the L^{∞} convergence of a conservative Fourier pseudo-spectral method for the space fractional nonlinear Schrödinger equation. <i>Numerical Methods for Partial Differential Equations</i> , 2021, 37, 1591-1611. | 3.6 | 5 |
| 42 | Multi-objective scheduling problems subjected to special process constraint. , 2008, , . | | 4 |
| 43 | Numerical analysis of a multi-symplectic scheme for the time-domain Maxwell's equations. <i>Journal of Mathematical Physics</i> , 2011, 52, 123701. | 1.1 | 4 |
| 44 | Optimal error estimate of two linear and momentum-preserving Fourier pseudo-spectral schemes for the RLW equation. <i>Numerical Methods for Partial Differential Equations</i> , 2020, 36, 394-417. | 3.6 | 4 |
| 45 | A new multisymplectic scheme for generalized Kadomtsev-Petviashvili equation. <i>Journal of Mathematical Physics</i> , 2006, 47, 083503. | 1.1 | 3 |
| 46 | Local energy- and momentum-preserving schemes for Klein-Gordon-Schrödinger equations and convergence analysis. <i>Numerical Methods for Partial Differential Equations</i> , 2017, 33, 1329-1351. | 3.6 | 3 |
| 47 | Two New Energy-Preserving Algorithms for Generalized Fifth-Order KdV Equation. <i>Advances in Applied Mathematics and Mechanics</i> , 2017, 9, 1206-1224. | 1.2 | 3 |
| 48 | Analysis of a Fourier pseudo-spectral conservative scheme for the Klein-Gordon-Schrödinger equation. <i>International Journal of Computer Mathematics</i> , 2018, 95, 36-60. | 1.8 | 3 |
| 49 | On multisymplectic integrators based on Runge-Kutta-Nyström methods for Hamiltonian wave equations. <i>Applied Mathematics and Computation</i> , 2006, 182, 1056-1063. | 2.2 | 2 |
| 50 | Derivation of the multisymplectic Crank-Nicolson scheme for the nonlinear Schrödinger equation. <i>Computer Physics Communications</i> , 2014, 185, 2403-2411. | 7.5 | 2 |
| 51 | Novel Symplectic Discrete Singular Convolution Method for Hamiltonian PDEs. <i>Communications in Computational Physics</i> , 2016, 19, 1375-1396. | 1.7 | 2 |
| 52 | Multisymplectic five-point scheme for the nonlinear wave equation. <i>Science Bulletin</i> , 2004, 48, 24. | 1.7 | 2 |
| 53 | An Artificial Boundary Condition for the Multisymplectic Preissman Scheme. <i>Journal of the Physical Society of Japan</i> , 2004, 73, 1457-1463. | 1.6 | 1 |
| 54 | A linearly implicit structure-preserving Fourier pseudo-spectral scheme for the damped nonlinear Schrödinger equation in three dimensions. <i>Advances in Computational Mathematics</i> , 2020, 46, 1. | 1.6 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Multisymplectic structure-preserving scheme for the coupled Grossâ€Pitaevskii equations. International Journal of Computer Mathematics, 2021, 98, 783-806. | 1.8 | 1 |
| 56 | Research on immune genetic algorithm for solving bi-objective scheduling problems subjected to special process constraint. , 2008, , . | | 0 |
| 57 | Applications of the Multi-Symplectic Euler-box Scheme. , 2009, , . | | 0 |
| 58 | Legendre Polynomials Spectral Approximation for the Infinite-Dimensional Hamiltonian Systems. Mathematical Problems in Engineering, 2011, 2011, 1-13. | 1.1 | 0 |
| 59 | An SDG Galerkin structureâ€preserving scheme for the Kleinâ€Gordonâ€SchrÃdinger equation. Mathematical Methods in the Applied Sciences, 2020, 43, 6011-6030. | 2.3 | 0 |
| 60 | Local structure-preserving algorithms for the molecular beam epitaxy model with slope selection. Discrete and Continuous Dynamical Systems - Series B, 2021, 26, 4745. | 0.9 | 0 |
| 61 | Local Energy Dissipation Rate Preserving Approximations to Driven Gradient Flows with Applications to Graphene Growth. Journal of Scientific Computing, 2022, 90, 1. | 2.3 | 0 |
| 62 | The exponential invariant energy quadratization approach for general multi-symplectic Hamiltonian PDEs. Journal of Computational and Applied Mathematics, 2021, , 113955. | 2.0 | 0 |