

David Cohen

List of Publications by Year in descending order

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33
papers

968
citations

586496

16
h-index

511568

30
g-index

33
all docs

33
docs citations

33
times ranked

346
citing authors

#	ARTICLE	IF	CITATIONS
1	Drift-preserving numerical integrators for stochastic Poisson systems. <i>International Journal of Computer Mathematics</i> , 2022, 99, 4-20.	1.0	10
2	Strong Rates of Convergence of a Splitting Scheme for Schrödinger Equations with Nonlocal Interaction Cubic Nonlinearity and White Noise Dispersion. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2022, 10, 453-480.	1.1	3
3	A fully discrete approximation of the one-dimensional stochastic heat equation. <i>IMA Journal of Numerical Analysis</i> , 2020, 40, 247-284.	1.5	16
4	High order numerical integrators for single integrand Stratonovich SDEs. <i>Applied Numerical Mathematics</i> , 2020, 158, 264-270.	1.2	4
5	Drift-preserving numerical integrators for stochastic Hamiltonian systems. <i>Advances in Computational Mathematics</i> , 2020, 46, 1.	0.8	31
6	Exponential integrators for stochastic Maxwell's equations driven by Itô noise. <i>Journal of Computational Physics</i> , 2020, 410, 109382.	1.9	15
7	Numerical discretisations of stochastic wave equations. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	1
8	Exponential integrators for nonlinear Schrödinger equations with white noise dispersion. <i>Stochastics and Partial Differential Equations: Analysis and Computations</i> , 2017, 5, 592-613.	0.5	3
9	Weak Second Order Explicit Exponential Runge-Kutta Methods for Stochastic Differential Equations. <i>SIAM Journal of Scientific Computing</i> , 2017, 39, A2857-A2878.	1.3	15
10	Geometric numerical integrators for Hunter-Saxton-like equations. <i>Japan Journal of Industrial and Applied Mathematics</i> , 2017, 34, 441-472.	0.5	6
11	Full Discretization of Semilinear Stochastic Wave Equations Driven by Multiplicative Noise. <i>SIAM Journal on Numerical Analysis</i> , 2016, 54, 1093-1119.	1.1	43
12	MultiSymplectic Discretization of Wave Map Equations. <i>SIAM Journal of Scientific Computing</i> , 2016, 38, A953-A972.	1.3	2
13	High order numerical methods for highly oscillatory problems. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2015, 49, 695-711.	0.8	2
14	Long-term analysis of numerical integrators for oscillatory Hamiltonian systems under minimal non-resonance conditions. <i>BIT Numerical Mathematics</i> , 2015, 55, 705-732.	1.0	13
15	A multi-symplectic numerical integrator for the two-component Camassa-Holm equation. <i>Journal of Nonlinear Mathematical Physics</i> , 2014, 21, 442.	0.8	12
16	Energy-preserving integrators for stochastic Poisson systems. <i>Communications in Mathematical Sciences</i> , 2014, 12, 1523-1539.	0.5	30
17	A Trigonometric Method for the Linear Stochastic Wave Equation. <i>SIAM Journal on Numerical Analysis</i> , 2013, 51, 204-222.	1.1	46
18	High Weak Order Methods for Stochastic Differential Equations Based on Modified Equations. <i>SIAM Journal of Scientific Computing</i> , 2012, 34, A1800-A1823.	1.3	40

#	ARTICLE	IF	CITATIONS
19	One-stage exponential integrators for nonlinear Schrödinger equations over long times. BIT Numerical Mathematics, 2012, 52, 877-903.	1.0	34
20	Convergent numerical schemes for the compressible hyperelastic rod wave equation. Numerische Mathematik, 2012, 122, 1-59.	0.9	4
21	Convergence analysis of trigonometric methods for stiff second-order stochastic differential equations. Numerische Mathematik, 2012, 121, 1-29.	0.9	26
22	On the numerical discretisation of stochastic oscillators. Mathematics and Computers in Simulation, 2012, 82, 1478-1495.	2.4	41
23	Linear energy-preserving integrators for Poisson systems. BIT Numerical Mathematics, 2011, 51, 91-101.	1.0	97
24	Geometric finite difference schemes for the generalized hyperelastic-rod wave equation. Journal of Computational and Applied Mathematics, 2011, 235, 1925-1940.	1.1	12
25	Long-Time Analysis of Nonlinearly Perturbed Wave Equations Via Modulated Fourier Expansions. Archive for Rational Mechanics and Analysis, 2008, 187, 341-368.	1.1	46
26	Conservation of energy, momentum and actions in numerical discretizations of non-linear wave equations. Numerische Mathematik, 2008, 110, 113-143.	0.9	98
27	Symmetric Exponential Integrators with an Application to the Cubic Schrödinger Equation. Foundations of Computational Mathematics, 2008, 8, 303-317.	1.5	78
28	Multi-symplectic integration of the Camassa-Holm equation. Journal of Computational Physics, 2008, 227, 5492-5512.	1.9	67
29	Conservation properties of numerical integrators for highly oscillatory Hamiltonian systems. IMA Journal of Numerical Analysis, 2006, 26, 34-59.	1.5	24
30	Numerical Integrators for Highly Oscillatory Hamiltonian Systems: A Review. , 2006, , 553-576.		40
31	Numerical Energy Conservation for Multi-Frequency Oscillatory Differential Equations. BIT Numerical Mathematics, 2005, 45, 287-305.	1.0	56
32	Modulated Fourier Expansions of Highly Oscillatory Differential Equations. Foundations of Computational Mathematics, 2003, 3, 327-345.	1.5	50
33	A fully discrete approximation of the one-dimensional stochastic wave equation. IMA Journal of Numerical Analysis, 0, , drv006.	1.5	3