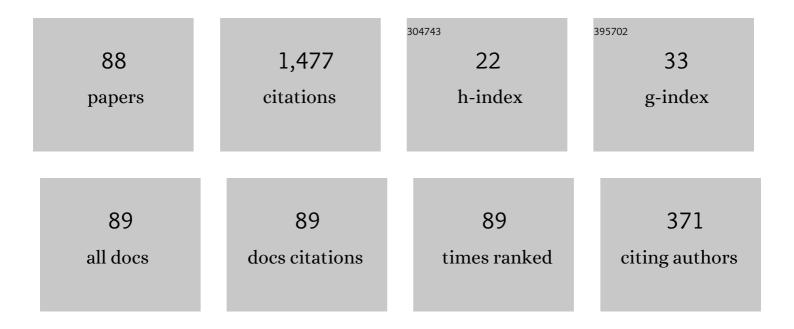
List of Publications by Year in descending order

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Ιωτιν Ηονς

#	Article	IF	CITATIONS
1	Large Deviations Principles for Symplectic Discretizations of Stochastic Linear SchrĶdinger Equation. Potential Analysis, 2023, 59, 971-1011.	0.9	3
2	Stochastic differential equation with piecewise continuous arguments: Markov property, invariant measure and numerical approximation. Discrete and Continuous Dynamical Systems - Series B, 2023, 28, 765.	0.9	4
3	Positivity-preserving symplectic methods for the stochastic Lotka–Volterra predator-prey model. BIT Numerical Mathematics, 2022, 62, 493-520.	2.0	3
4	Optimal Hölder continuity and hitting probabilities for SPDEs with rough fractional noises. Journal of Mathematical Analysis and Applications, 2022, 512, 126125.	1.0	0
5	Weak intermittency of stochastic heat equation under discretizations. Journal of Differential Equations, 2022, 333, 268-301.	2.2	1
6	Three kinds of novel multi-symplectic methods for stochastic Hamiltonian partial differential equations. Journal of Computational Physics, 2022, 467, 111453.	3.8	2
7	Optimal rate of convergence for two classes of schemes to stochastic differential equations driven by fractional Brownian motions. IMA Journal of Numerical Analysis, 2021, 41, 1608-1638.	2.9	6
8	Weak convergence and invariant measure of a full discretization for parabolic SPDEs with non-globally Lipschitz coefficients. Stochastic Processes and Their Applications, 2021, 134, 55-93.	0.9	17
9	Strong Convergence of Full Discretization for Stochastic Cahn–Hilliard Equation Driven by Additive Noise. SIAM Journal on Numerical Analysis, 2021, 59, 2866-2899.	2.3	11
10	Absolute continuity and numerical approximation of stochastic Cahn–Hilliard equation with unbounded noise diffusion. Journal of Differential Equations, 2020, 269, 10143-10180.	2.2	10
11	Energy and quadratic invariants preserving (EQUIP) multi-symplectic methods for Hamiltonian wave equations. Journal of Computational Physics, 2020, 418, 109599.	3.8	4
12	Exponential integrators for stochastic Maxwell's equations driven by Itô noise. Journal of Computational Physics, 2020, 410, 109382.	3.8	15
13	Modified averaged vector field methods preserving multiple invariants for conservative stochastic differential equations. BIT Numerical Mathematics, 2020, 60, 917-957.	2.0	2
14	Strong convergence rates of semidiscrete splitting approximations for the stochastic Allen–Cahn equation. IMA Journal of Numerical Analysis, 2019, 39, 2096-2134.	2.9	39
15	A Review on Stochastic Multi-symplectic Methods for Stochastic Maxwell Equations. Communications on Applied Mathematics and Computation, 2019, 1, 467-501.	1.7	4
16	Strong and Weak Convergence Rates of a Spatial Approximation for Stochastic Partial Differential Equation with One-sided Lipschitz Coefficient. SIAM Journal on Numerical Analysis, 2019, 57, 1815-1841.	2.3	35
17	Invariant Measures for Stochastic Nonlinear SchrĶdinger Equations. Lecture Notes in Mathematics, 2019, , .	0.2	14
18	Optimal regularity of stochastic evolution equations in M-type 2 Banach spaces. Journal of Differential Equations, 2019, 267, 1955-1971.	2.2	1

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19	Mean-Square Convergence of a Semidiscrete Scheme for Stochastic Maxwell Equations. SIAM Journal on Numerical Analysis, 2019, 57, 728-750.	2.3	8
20	RungeKutta Semidiscretizations for Stochastic Maxwell Equations with Additive Noise. SIAM Journal on Numerical Analysis, 2019, 57, 702-727.	2.3	8
21	Dynamic Evaluation of Exponential Polynomial Curves and Surfaces via Basis Transformation. SIAM Journal of Scientific Computing, 2019, 41, A3401-A3420.	2.8	1
22	Parareal Exponential \$heta\$-Scheme for Longtime Simulation of Stochastic Schrödinger Equations with Weak Damping. SIAM Journal of Scientific Computing, 2019, 41, B1155-B1177.	2.8	3
23	Well-posedness and optimal regularity of stochastic evolution equations with multiplicative noises. Journal of Differential Equations, 2019, 266, 4712-4745.	2.2	3
24	Strong convergence rate of splitting schemes for stochastic nonlinear SchrĶdinger equations. Journal of Differential Equations, 2019, 266, 5625-5663.	2.2	28
25	Finite element approximations for second-order stochastic differential equation driven by fractional Brownian motion. IMA Journal of Numerical Analysis, 2018, 38, 184-197.	2.9	18
26	Symplectic Runge–Kutta methods for Hamiltonian systems driven by Gaussian rough paths. Applied Numerical Mathematics, 2018, 129, 120-136.	2.1	12
27	Explicit pseudo-symplectic methods for stochastic Hamiltonian systems. BIT Numerical Mathematics, 2018, 58, 163-178.	2.0	7
28	Analysis of a Splitting Scheme for Damped Stochastic Nonlinear SchrĶdinger Equation with Multiplicative Noise. SIAM Journal on Numerical Analysis, 2018, 56, 2045-2069.	2.3	19
29	Local energy―and momentumâ€preserving schemes for Kleinâ€Gordonâ€5chrödinger equations and convergence analysis. Numerical Methods for Partial Differential Equations, 2017, 33, 1329-1351.	3.6	3
30	Construction of Symplectic Runge-Kutta Methods for Stochastic Hamiltonian Systems. Communications in Computational Physics, 2017, 21, 237-270.	1.7	15
31	A Compact Scheme for Coupled Stochastic Nonlinear Schrödinger Equations. Communications in Computational Physics, 2017, 21, 93-125.	1.7	9
32	Stochastic symplectic Runge–Kutta methods for the strong approximation of Hamiltonian systems with additive noise. Journal of Computational and Applied Mathematics, 2017, 325, 134-148.	2.0	17
33	Stochastic symplectic and multi-symplectic methods for nonlinear SchrĶdinger equation with white noise dispersion. Journal of Computational Physics, 2017, 342, 267-285.	3.8	22
34	Strong convergence rate of finite difference approximations for stochastic cubic SchrĶdinger equations. Journal of Differential Equations, 2017, 263, 3687-3713.	2.2	36
35	Dynamic Evaluation of Free-Form Curves and Surfaces. SIAM Journal of Scientific Computing, 2017, 39, B424-B441.	2.8	4
36	Numerical Analysis on Ergodic Limit of Approximations for Stochastic NLS Equation via Multi-symplectic Scheme. SIAM Journal on Numerical Analysis, 2017, 55, 305-327.	2.3	15

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37	An energy-conserving method for stochastic Maxwell equations with multiplicative noise. Journal of Computational Physics, 2017, 351, 216-229.	3.8	17
38	Approximating Stochastic Evolution Equations with Additive White and Rough Noises. SIAM Journal on Numerical Analysis, 2017, 55, 1958-1981.	2.3	32
39	High Order Conformal Symplectic and Ergodic Schemes for the Stochastic Langevin Equation via Generating Functions. SIAM Journal on Numerical Analysis, 2017, 55, 3006-3029.	2.3	22
40	Approximation of Invariant Measure for Damped Stochastic Nonlinear Schrödinger Equation via an Ergodic Numerical Scheme. Potential Analysis, 2017, 46, 323-367.	0.9	18
41	Convergence of a \$\$heta \$\$ Î, -scheme to solve the stochastic nonlinear Schrödinger equation with Stratonovich noise. Stochastics and Partial Differential Equations: Analysis and Computations, 2016, 4, 274-318.	0.9	2
42	Projection methods for stochastic differential equations with conserved quantities. BIT Numerical Mathematics, 2016, 56, 1497-1518.	2.0	17
43	Symplectic RungeKutta Semidiscretization for Stochastic SchrĶdinger Equation. SIAM Journal on Numerical Analysis, 2016, 54, 2569-2593.	2.3	23
44	Energy evolution of multi-symplectic methods for Maxwell equations with perfectly matched layer boundary. Journal of Mathematical Analysis and Applications, 2016, 439, 256-270.	1.0	5
45	Preservation of physical properties of stochastic Maxwell equations with additive noise via stochastic multi-symplectic methods. Journal of Computational Physics, 2016, 306, 500-519.	3.8	27
46	Modified equations for weakly convergent stochastic symplectic schemes via their generating functions. BIT Numerical Mathematics, 2016, 56, 1131-1162.	2.0	12
47	Compact and efficient conservative schemes for coupled nonlinear <scp>S</scp> chr¶dinger equations. Numerical Methods for Partial Differential Equations, 2015, 31, 1814-1843.	3.6	24
48	Two Energy-Conserved Splitting Methods for Three-Dimensional Time-Domain Maxwell's Equations and the Convergence Analysis. SIAM Journal on Numerical Analysis, 2015, 53, 1918-1940.	2.3	22
49	Preservation of quadratic invariants of stochastic differential equations via Runge–Kutta methods. Applied Numerical Mathematics, 2015, 87, 38-52.	2.1	28
50	Energy-dissipation splitting finite-difference time-domain method for Maxwell equations with perfectly matched layers. Journal of Computational Physics, 2014, 269, 201-214.	3.8	23
51	A stochastic multi-symplectic scheme for stochastic Maxwell equations with additive noise. Journal of Computational Physics, 2014, 268, 255-268.	3.8	30
52	Generating functions for stochastic symplectic methods. Discrete and Continuous Dynamical Systems, 2014, 34, 1211-1228.	0.9	18
53	Solvability of concatenated Runge–Kutta equations for second-order nonlinear PDEs. Journal of Computational and Applied Mathematics, 2013, 245, 232-241.	2.0	1
54	LOD-MS for Gross-Pitaevskii Equation in Bose-Einstein Condensates. Communications in Computational Physics, 2013, 14, 219-241.	1.7	8

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55	Stochastic Multi-Symplectic Integrator for Stochastic Nonlinear SchrĶdinger Equation. Communications in Computational Physics, 2013, 14, 393-411.	1.7	28
56	Solvability of the central box scheme for a kind of nonlinear partial differential equations. , 2012, , .		0
57	Stochastic multisymplectic integrator for stochastic KdV equation. AIP Conference Proceedings, 2012,	0.4	3
58	Stochastic multi-symplectic wavelet collocation method for stochastic Hamiltonian Maxwell's equations. , 2012, , .		1
59	Discrete Gradient Approach to Stochastic Differential Equations with a Conserved Quantity. SIAM Journal on Numerical Analysis, 2011, 49, 2017-2038.	2.3	30
60	High-order compact splitting multisymplectic method for the coupled nonlinear SchrĶdinger equations. Computers and Mathematics With Applications, 2011, 61, 319-333.	2.7	47
61	Symplectic structure-preserving integrators for the two-dimensional Gross–Pitaevskii equation for BEC. Journal of Computational and Applied Mathematics, 2011, 235, 4937-4948.	2.0	11
62	Splitting multisymplectic integrators for Maxwell's equations. Journal of Computational Physics, 2010, 229, 4259-4278.	3.8	65
63	Explicit multi-symplectic methods for Klein–Gordon–Schrödinger equations. Journal of Computational Physics, 2009, 228, 3517-3532.	3.8	71
64	Accuracy of classical conservation laws for Hamiltonian PDEs under Runge–Kutta discretizations. Numerische Mathematik, 2009, 112, 1-23.	1.9	5
65	Symplectic integrator for nonlinear high order SchrĶdinger equation with a trapped term. Journal of Computational and Applied Mathematics, 2009, 231, 664-679.	2.0	16
66	Generating functions of multi-symplectic RK methods via DW Hamilton–Jacobi equations. Numerische Mathematik, 2008, 110, 491-519.	1.9	7
67	Long-term numerical simulation of the interaction between a neutron field and a neutral meson field by a symplectic-preserving scheme. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 255207.	2.1	15
68	Numerical comparison of five difference schemes for coupled Klein–Gordon–Schrödinger equations in quantum physics. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 9125-9135.	2.1	21
69	Predictor–corrector methods for a linear stochastic oscillator with additive noise. Mathematical and Computer Modelling, 2007, 46, 738-764.	2.0	19
70	Multi-symplectic Runge–Kutta–Nyström methods for nonlinear Schrödinger equations with variable coefficients. Journal of Computational Physics, 2007, 226, 1968-1984.	3.8	33
71	Almost periodic random sequences in probability. Journal of Mathematical Analysis and Applications, 2007, 336, 962-974.	1.0	10
72	Globally conservative properties and error estimation of a multi-symplectic scheme for Schrödinger equations with variable coefficients. Applied Numerical Mathematics, 2006, 56, 814-843.	2.1	62

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73	Multi-symplectic Runge–Kutta methods for nonlinear Dirac equations. Journal of Computational Physics, 2006, 211, 448-472.	3.8	81
74	A Survey of Multi-symplectic Runge-Kutta Type Methods for Hamiltonian Partial Differential Equations. Series in Contemporary Applied Mathematics, 2006, , 71-113.	0.8	3
75	The multi-symplecticity of partitioned Runge-Kutta methods for Hamiltonian PDEs. Mathematics of Computation, 2005, 75, 167-182.	2.1	37
76	Multisymplecticity of the centred box scheme for a class of hamiltonian PDEs and an application to quasi-periodically solitary waves. Mathematical and Computer Modelling, 2004, 39, 1035-1047.	2.0	8
77	A novel numerical approach to simulating nonlinear SchrĶdinger equations with varying coefficients. Applied Mathematics Letters, 2003, 16, 759-765.	2.7	29
78	Multisymplecticity of the centred box discretization for hamiltonian PDEs with m ≥ 2 space dimensions. Applied Mathematics Letters, 2002, 15, 1005-1011.	2.7	13
79	Almost periodic type solutions of some differential equations with piecewise constant argument. Nonlinear Analysis: Theory, Methods & Applications, 2001, 45, 661-688.	1.1	29
80	Numerical simulation of periodic and quasiperiodic solutions for nonautonomous Hamiltonian systems via the scheme preserving weak invariance. Computer Physics Communications, 2000, 131, 86-94.	7.5	3
81	Ergodic solutions via ergodic sequences. Nonlinear Analysis: Theory, Methods & Applications, 2000, 40, 265-277.	1.1	3
82	Almost periodic type solutions of differential equations with piecewise constant argument via almost periodic type sequences. Applied Mathematics Letters, 2000, 13, 131-137.	2.7	29
83	A class of ergodic solutions of nonlinear differential equations and numerical treatment. Mathematical and Computer Modelling, 2000, 32, 493-506.	2.0	0
84	Exponential trichotomy and a class of ergodic solutions of differential equations with ergodic perturbations. Applied Mathematics Letters, 1999, 12, 7-13.	2.7	11
85	Existence of a class of ergodic solutions implies exponential trichotomy. Applied Mathematics Letters, 1999, 12, 43-45.	2.7	9
86	Exponential dichotomy and trichotomy for difference equations. Computers and Mathematics With Applications, 1999, 38, 41-49.	2.7	43
87	Mean-square convergence of a symplectic local discontinuous Galerkin method applied to stochastic linear Schrödinger equation. IMA Journal of Numerical Analysis, 0, , drw023.	2.9	2
88	Density function of numerical solution of splitting AVF scheme for stochastic Langevin equation. , 0, , .		4