

Evelyn Buckwar

List of Publications by Year in descending order

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42
papers

1,389
citations

430754

18
h-index

330025

37
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46
all docs

46
docs citations

46
times ranked

579
citing authors

#	ARTICLE	IF	CITATIONS
1	Invariance of a Partial Differential Equation of Fractional Order under the Lie Group of Scaling Transformations. <i>Journal of Mathematical Analysis and Applications</i> , 1998, 227, 81-97.	0.5	221
2	Exponential stability in p-th mean of solutions, and of convergent Euler-type solutions, of stochastic delay differential equations. <i>Journal of Computational and Applied Mathematics</i> , 2005, 184, 404-427.	1.1	163
3	Introduction to the numerical analysis of stochastic delay differential equations. <i>Journal of Computational and Applied Mathematics</i> , 2000, 125, 297-307.	1.1	150
4	Numerical Analysis of Explicit One-Step Methods for Stochastic Delay Differential Equations. <i>LMS Journal of Computation and Mathematics</i> , 2000, 3, 315-335.	0.9	129
5	Multistep methods for SDEs and their application to problems with small noise. <i>SIAM Journal on Numerical Analysis</i> , 2006, 44, 779-803.	1.1	70
6	An exact stochastic hybrid model of excitable membranes including spatio-temporal evolution. <i>Journal of Mathematical Biology</i> , 2011, 63, 1051-1093.	0.8	65
7	Towards a Systematic Linear Stability Analysis of Numerical Methods for Systems of Stochastic Differential Equations. <i>SIAM Journal on Numerical Analysis</i> , 2010, 48, 298-321.	1.1	61
8	A comparative linear mean-square stability analysis of Maruyama- and Milstein-type methods. <i>Mathematics and Computers in Simulation</i> , 2011, 81, 1110-1127.	2.4	52
9	A structural analysis of asymptotic mean-square stability for multi-dimensional linear stochastic differential systems. <i>Applied Numerical Mathematics</i> , 2012, 62, 842-859.	1.2	41
10	Asymptotic Mean-Square Stability of Two-Step Methods for Stochastic Ordinary Differential Equations. <i>BIT Numerical Mathematics</i> , 2006, 46, 261-282.	1.0	30
11	Weak approximation of stochastic differential delay equations. <i>IMA Journal of Numerical Analysis</i> , 2005, 25, 57-86.	1.5	26
12	NOISE-SENSITIVITY IN MACHINE TOOL VIBRATIONS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2006, 16, 2407-2416.	0.7	26
13	Multi-Step Maruyama Methods for Stochastic Delay Differential Equations. <i>Stochastic Analysis and Applications</i> , 2007, 25, 933-959.	0.9	25
14	Laws of Large Numbers and Langevin Approximations for Stochastic Neural Field Equations. <i>Journal of Mathematical Neuroscience</i> , 2013, 3, 1.	2.4	24
15	Weak Convergence of the Euler Scheme for Stochastic Differential Delay Equations. <i>LMS Journal of Computation and Mathematics</i> , 2008, 11, 60-99.	0.9	20
16	Stochastic Runge-Kutta Methods for Itô SODEs with Small Noise. <i>SIAM Journal of Scientific Computing</i> , 2010, 32, 1789-1808.	1.3	20
17	Runge-Kutta methods for jump-diffusion differential equations. <i>Journal of Computational and Applied Mathematics</i> , 2011, 236, 1155-1182.	1.1	20
18	One-step approximations for stochastic functional differential equations. <i>Applied Numerical Mathematics</i> , 2006, 56, 667-681.	1.2	19

#	ARTICLE	IF	CITATIONS
19	Non-normal drift structures and linear stability analysis of numerical methods for systems of stochastic differential equations. <i>Computers and Mathematics With Applications</i> , 2012, 64, 2282-2293.	1.4	19
20	Numerical Solution of the Neural Field Equation in the Two-Dimensional Case. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, B962-B979.	1.3	19
21	Almost sure asymptotic stability analysis of the \hat{I} -Maruyama method applied to a test system with stabilising and destabilising stochastic perturbations. <i>LMS Journal of Computation and Mathematics</i> , 2012, 15, 71-83.	0.9	17
22	Sufficient conditions for polynomial asymptotic behaviour of the stochastic pantograph equation. , 0, , .		14
23	Asymptotic and Transient Mean-Square Properties of Stochastic Systems Arising in Ecology, Fluid Dynamics, and System Control. <i>SIAM Journal on Applied Mathematics</i> , 2014, 74, 411-433.	0.8	13
24	Spectral density-based and measure-preserving ABC for partially observed diffusion processes. An illustration on Hamiltonian SDEs. <i>Statistics and Computing</i> , 2020, 30, 627-648.	0.8	13
25	A Stochastic Version of the Jansen and Rit Neural Mass Model: Analysis and Numerics. <i>Journal of Mathematical Neuroscience</i> , 2017, 7, 8.	2.4	12
26	On Two-step Schemes for SDEs with Small Noise. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2004, 4, 15-18.	0.2	11
27	Improved linear multi-step methods for stochastic ordinary differential equations. <i>Journal of Computational and Applied Mathematics</i> , 2007, 205, 912-922.	1.1	11
28	THE NUMERICAL STABILITY OF STOCHASTIC ORDINARY DIFFERENTIAL EQUATIONS WITH ADDITIVE NOISE. <i>Stochastics and Dynamics</i> , 2011, 11, 265-281.	0.6	11
29	The \hat{S} -Maruyama scheme for stochastic functional differential equations with distributed memory term *. <i>Monte Carlo Methods and Applications</i> , 2004, 10, .	0.3	9
30	A splitting method for SDEs with locally Lipschitz drift: Illustration on the FitzHugh-Nagumo model. <i>Applied Numerical Mathematics</i> , 2022, 179, 191-220.	1.2	9
31	A Constructive Comparison Technique for Determining the Asymptotic Behaviour of Linear Functional Differential Equations with Unbounded Delay. <i>Differential Equations and Dynamical Systems</i> , 2010, 18, 271-301.	0.5	8
32	Stochastic Runge-Kutta methods with deterministic high order for ordinary differential equations. <i>BIT Numerical Mathematics</i> , 2013, 53, 617-639.	1.0	8
33	Splitting Integrators for the Stochastic Landau–Lifshitz Equation. <i>SIAM Journal of Scientific Computing</i> , 2016, 38, A1788-A1806.	1.3	8
34	Qualitative properties of different numerical methods for the inhomogeneous geometric Brownian motion. <i>Journal of Computational and Applied Mathematics</i> , 2022, 406, 113951.	1.1	8
35	ON HALANAY-TYPE ANALYSIS OF EXPONENTIAL STABILITY FOR THE \hat{I} -MARUYAMA METHOD FOR STOCHASTIC DELAY DIFFERENTIAL EQUATIONS. <i>Stochastics and Dynamics</i> , 2005, 05, 201-209.	0.6	7
36	Existence and uniqueness of solutions of Abel integral equations with power-law non-linearities. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2005, 63, 88-96.	0.6	6

#	ARTICLE	IF	CITATIONS
37	Weak stochastic Runge-Kutta Munthe-Kaas methods for finite spin ensembles. Applied Numerical Mathematics, 2017, 118, 50-63.	1.2	6
38	Exponential mean-square stability properties of stochastic linear multistep methods. Advances in Computational Mathematics, 2021, 47, 1.	0.8	6
39	Numerical Investigation of the Two-Dimensional Neural Field Equation with Delay. , 2015, , .		3
40	An importance sampling technique in Monte Carlo methods for SDEs with a.s. stable and mean-square unstable equilibrium. Journal of Computational and Applied Mathematics, 2017, 316, 3-14.	1.1	3
41	Stochastic Runge-Kutta Methods with Deterministic High Order for Ordinary Differential Equations. , 2011, , .		0
42	A note on the analysis of asymptotic mean-square stability properties for systems of linear stochastic delay differential equations. Discrete and Continuous Dynamical Systems - Series B, 2013, 18, 1521-1531.	0.5	0