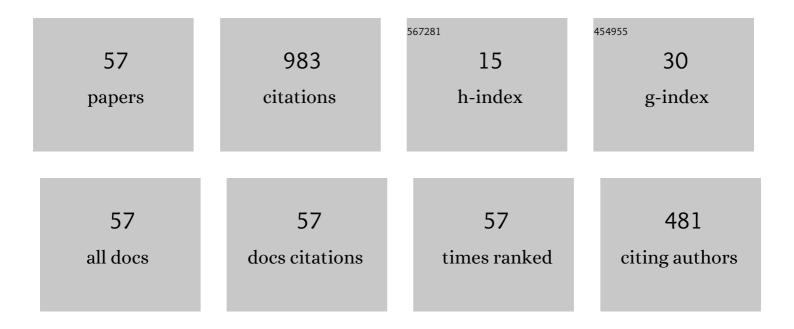
Aiguo Xiao

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Crank–Nicolson difference scheme for the coupled nonlinear Schr¶dinger equations with the Riesz space fractional derivative. Journal of Computational Physics, 2013, 242, 670-681.	3.8	163
2	A linearly implicit conservative difference scheme for the space fractional coupled nonlinear SchrĶdinger equations. Journal of Computational Physics, 2014, 272, 644-655.	3.8	119
3	Convergence of the variational iteration method for solving multi-order fractional differential equations. Computers and Mathematics With Applications, 2010, 60, 2871-2879.	2.7	78
4	Maximum-norm error analysis of a difference scheme for the space fractional CNLS. Applied Mathematics and Computation, 2015, 257, 241-251.	2.2	73
5	Finite Difference/Finite Element Methods for Distributed-Order Time Fractional Diffusion Equations. Journal of Scientific Computing, 2017, 72, 422-441.	2.3	72
6	Weighted finite difference methods for a class of space fractional partial differential equations with variable coefficients. Journal of Computational and Applied Mathematics, 2010, 233, 1905-1914.	2.0	44
7	Space–time finite element method for the multi-term time–space fractional diffusion equation on a two-dimensional domain. Computers and Mathematics With Applications, 2019, 78, 1367-1379.	2.7	28
8	Dissipativity and contractivity for fractional-order systems. Nonlinear Dynamics, 2015, 80, 287-294.	5.2	27
9	Conservative Fourier spectral method and numerical investigation of space fractional Klein–Gordon–Schrödinger equations. Applied Mathematics and Computation, 2019, 350, 348-365.	2.2	27
10	An efficient conservative difference scheme for fractional Klein–Gordon–Schrödinger equations. Applied Mathematics and Computation, 2018, 320, 691-709.	2.2	25
11	Error estimate of Fourier pseudo-spectral method for multidimensional nonlinear complex fractional Ginzburg–Landau equations. Applied Mathematics Letters, 2019, 93, 40-45.	2.7	24
12	Fourier pseudospectral method on generalized sparse grids for the space-fractional SchrĶdinger equation. Computers and Mathematics With Applications, 2018, 75, 4241-4255.	2.7	21
13	Well-posedness and EM approximations for non-Lipschitz stochastic fractional integro-differential equations. Journal of Computational and Applied Mathematics, 2019, 356, 377-390.	2.0	20
14	An IMEXâ€BDF2 compact scheme for pricing options under regimeâ€switching jumpâ€diffusion models. Mathematical Methods in the Applied Sciences, 2019, 42, 2646-2663.	2.3	19
15	Lévy-driven stochastic Volterra integral equations with doubly singular kernels: existence, uniqueness, and a fast EM method. Advances in Computational Mathematics, 2020, 46, 1.	1.6	17
16	An h-p version of the continuous Petrov-Galerkin finite element method for Riemann-Liouville fractional differential equation with novel test basis functions. Numerical Algorithms, 2019, 81, 529-545.	1.9	16
17	Exact and numerical stability analysis of reaction-diffusion equations with distributed delays. Frontiers of Mathematics in China, 2016, 11, 189-205.	0.7	13
18	Finite Difference/Finite Element Method for Tempered Time Fractional Advection–Dispersion Equation with Fast Evaluation of Caputo Derivative. Journal of Scientific Computing, 2020, 83, 1.	2.3	13

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#	Article	IF	CITATIONS
19	Strong convergence of the split-step theta method for neutral stochastic delay differential equations. Applied Numerical Mathematics, 2017, 120, 215-232.	2.1	12
20	A note on Euler method for the overdamped generalized Langevin equation with fractional noise. Applied Mathematics Letters, 2021, 111, 106669.	2.7	12
21	Two classes of implicit–explicit multistep methods for nonlinear stiff initial-value problems. Applied Mathematics and Computation, 2014, 247, 47-60.	2.2	10
22	High strong order stochastic Runge-Kutta methods for Stratonovich stochastic differential equations with scalar noise. Numerical Algorithms, 2016, 72, 259-296.	1.9	10
23	Efficient weak second-order stochastic Runge–Kutta methods for Itôstochastic differential equations. BIT Numerical Mathematics, 2017, 57, 241-260.	2.0	10
24	Conservative linearly-implicit difference scheme for a class of modified Zakharov systems with high-order space fractional quantum correction. Applied Numerical Mathematics, 2019, 146, 379-399.	2.1	10
25	Space–time fractional diffusion equations and asymptotic behaviors of a coupled continuous time random walk model. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 5801-5807.	2.6	9
26	Stability and convergence analysis of implicit–explicit one-leg methods for stiff delay differential equations. International Journal of Computer Mathematics, 2016, 93, 1964-1983.	1.8	9
27	Sinc-Chebyshev Collocation Method for a Class of Fractional Diffusion-Wave Equations. Scientific World Journal, The, 2014, 2014, 1-7.	2.1	8
28	Implicit–explicit time discretization coupled with finite element methods for delayed predator–prey competition reaction–diffusion system. Computers and Mathematics With Applications, 2016, 71, 2106-2123.	2.7	8
29	Parallel two-step ROW-methods for stiff delay differential equations. Applied Numerical Mathematics, 2009, 59, 1768-1778.	2.1	7
30	Convergence of Variational Iteration Method for Second-Order Delay Differential Equations. Journal of Applied Mathematics, 2013, 2013, 1-9.	0.9	7
31	Numerical solutions of SDEs with Markovian switching and jumps under non-Lipschitz conditions. Journal of Computational and Applied Mathematics, 2019, 360, 41-54.	2.0	6
32	Convergence of Linear Multistep Methods and One-Leg Methods for Index-2 Differential-Algebraic Equations with a Variable Delay. Advances in Applied Mathematics and Mechanics, 2012, 4, 636-646.	1.2	5
33	Fractional variational integrators for fractional Euler–Lagrange equations with holonomic constraints. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 905-914.	3.3	5
34	Asymptotically optimal approximation of some stochastic integrals and its applications to the strong second-order methods. Advances in Computational Mathematics, 2019, 45, 813-846.	1.6	5
35	A Posteriori Error Estimates for Fully Discrete Finite Element Method for Generalized Diffusion Equation with Delay. Journal of Scientific Computing, 2020, 84, 13.	2.3	5
36	Implicit–explicit multistep finite-element methods for nonlinear convection-diffusion-reaction equations with time delay. International Journal of Computer Mathematics, 2018, 95, 2496-2510.	1.8	4

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#	Article	IF	CITATIONS
37	Asymptotic behavior of solutions to time fractional neutral functional differential equations. Journal of Computational and Applied Mathematics, 2021, 382, 113086.	2.0	4
38	Efficient difference method for time-space fractional diffusion equation with Robin fractional derivative boundary condition. Numerical Algorithms, 2021, 88, 1965-1988.	1.9	4
39	Convergence results of two-step W-methods for two-parameter singular perturbation problems. Applied Mathematics and Computation, 2007, 189, 669-681.	2.2	3
40	Dependence Analysis of the Solutions on the Parameters of Fractional Delay Differential Equations. Advances in Applied Mathematics and Mechanics, 2011, 3, 586-597.	1.2	3
41	A Directed Continuous Time Random Walk Model with Jump Length Depending on Waiting Time. Scientific World Journal, The, 2014, 2014, 1-4.	2.1	3
42	The asymptotic behaviour of thel̂,-methods with constant stepsize for the generalized pantograph equation. International Journal of Computer Mathematics, 2016, 93, 1484-1504.	1.8	3
43	New explicit stabilized stochastic Runge-Kutta methods with weak second order for stiff Itô stochastic differential equations. Numerical Algorithms, 2019, 82, 593-604.	1.9	3
44	Characterizations and construction of Poisson/symplectic and symmetric multi-revolution implicit Runge–Kutta methods of high order. Applied Numerical Mathematics, 2008, 58, 915-930.	2.1	2
45	Variational Iteration Method for Delay Differential-Algebraic Equations. Mathematical and Computational Applications, 2010, 15, 834-839.	1.3	2
46	Nonlinear Stability and <i>B</i> -convergence of Additive Runge-Kutta Methods for Nonlinear Stiff Problems. Advances in Applied Mathematics and Mechanics, 2015, 7, 472-495.	1.2	2
47	Convergence of Variational Iteration Method for Fractional Delay Integrodifferential-Algebraic Equations. Mathematical Problems in Engineering, 2017, 2017, 1-10.	1.1	2
48	An Efficient Algorithm for Options Under Merton's Jump-Diffusion Model on Nonuniform Grids. Computational Economics, 2019, 53, 1565-1591.	2.6	2
49	Highly stable multistep Runge–Kutta methods for Volterra integral equations. Computational and Applied Mathematics, 2020, 39, 1.	2.2	2
50	Spectral collocation method for a class of fractional diffusion differential equations with nonsmooth solutions. Mathematical Methods in the Applied Sciences, 2021, 44, 2892-2913.	2.3	2
51	Fourier pseudospectral method for fractional stationary Schrödinger equation. Applied Numerical Mathematics, 2021, 165, 137-151.	2.1	2
52	Convergence of parallel multistep hybrid methods for singular perturbation problems. Applied Mathematics and Computation, 2009, 215, 2139-2148.	2.2	1
53	Modeling Anomalous Diffusion by a Subordinated Integrated Brownian Motion. Advances in Mathematical Physics, 2017, 2017, 1-7.	0.8	1
54	A sharp error estimate of Eulerâ€Maruyama method for stochastic Volterra integral equations. Mathematical Methods in the Applied Sciences, 0, , .	2.3	1

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#	Article	IF	CITATIONS
55	Fourier spectral method on sparse grids for computing ground state of many-particle fractional SchrĶdinger equations. International Journal of Computer Mathematics, 2021, 98, 1218-1232.	1.8	0
56	Space-Fractional Diffusion Equation with Variable Coefficients: Well-posedness and Fourier Pseudospectral Approximation. Journal of Scientific Computing, 2021, 87, 1.	2.3	0
57	Generating Function Methods for Coefficient-Varying Generalized Hamiltonian Systems. Advances in Applied Mathematics and Mechanics, 2014, 6, 87-106.	1.2	ο