Yubin Yan

List of Publications by Year
in descending order

55 papers	1,143 citations	586496 16 h-index	466096 32 g-index
55 all docs	55 docs citations	55 times ranked	620 citing authors

#	Article	IF	Citations
1	Galerkin finite element approximation of a stochastic semilinear fractional subdiffusion with fractionally integrated additive noise. IMA Journal of Numerical Analysis, 2022, 42, 2301-2335.	1.5	6
2	Weak convergence of the L1 scheme for a stochastic subdiffusion problem driven by fractionally integrated additive noise. Applied Numerical Mathematics, 2022, 178, 192-215.	1.2	3
3	Oscillatory and stability of a mixed type difference equation with variable coefficients. International Journal of Dynamical Systems and Differential Equations, 2021, 11, 391.	0.2	0
4	High order algorithms for numerical solution of fractional differential equations. Advances in Difference Equations, 2021, 2021, .	3.5	8
5	Error Estimates of a Continuous Galerkin Time Stepping Method for Subdiffusion Problem. Journal of Scientific Computing, 2021, 88, 1.	1.1	3
6	Spatial Discretization for Stochastic Semi-Linear Subdiffusion Equations Driven by Fractionally Integrated Multiplicative Space-Time White Noise. Mathematics, 2021, 9, 1917.	1.1	0
7	Numerical Methods for Caputoâ€“Hadamard Fractional Differential Equations with Graded and Non-Uniform Meshes. Mathematics, 2021, 9, 2728.	1.1	7
8	On the behavior of the solutions for linear autonomous mixed type difference equation. Rendiconti Del Circolo Matematico Di Palermo, 2020, 69, 787-801.	0.6	3
9	The diffusion-driven instability and complexity for a single-handed discrete Fisher equation. Applied Mathematics and Computation, 2020, 371, 124946.	1.4	6
10	An analysis of the L1 scheme for stochastic subdiffusion problem driven by integrated space-time white noise. Applied Numerical Mathematics, 2020, 157, 69-87.	1.2	14
11	Highâ€order ADI orthogonal spline collocation method for a new 2D fractional integroâ€differential problem. Mathematical Methods in the Applied Sciences, 2020, 43, 5162-5178.	1.2	10
12	Finite-time blow-up of a non-local stochastic parabolic problem. Stochastic Processes and Their Applications, 2020, 130, 5605-5635.	0.4	6
13	Higher Order Time Stepping Methods for Subdiffusion Problems Based on Weighted and Shifted GrÃ¼nwaldâ€“Letnikov Formulae with Nonsmooth Data. Journal of Scientific Computing, 2020, 83, 1.	1.1	7
14	Two High-Order Time Discretization Schemes for Subdiffusion Problems with Nonsmooth Data. Fractional Calculus and Applied Analysis, 2020, 23, 1349-1380.	1.2	8
15	Numerical Methods for Solving Space Fractional Partial Differential Equations Using Hadamard Finite-Part Integral Approach. Communications on Applied Mathematics and Computation, 2019, 1, 505-523.	0.7	2
16	Numerical approximation of stochastic time-fractional diffusion. ESAIM: Mathematical Modelling and Numerical Analysis, 2019, 53, 1245-1268.	0.8	28
17	A High Order Numerical Method for Solving Nonlinear Fractional Differential Equation with Non-uniform Meshes. Lecture Notes in Computer Science, 2019, , 207-215.	1.0	0
18	Optimal convergence rates for semidiscrete finite element approximations of linear space-fractional partial differential equations under minimal regularity assumptions. Journal of Computational and Applied Mathematics, 2019, 352, 409-425.	1.1	6

#	Article	IF	Citations
19	A high-order scheme to approximate the Caputo fractional derivative and its application to solve the fractional diffusion wave equation. Journal of Computational Physics, 2019, 376, 1312-1330.	1.9	32
20	An Analysis of the Modified L1 Scheme for Time-Fractional Partial Differential Equations with Nonsmooth Data. SIAM Journal on Numerical Analysis, 2018, 56, 210-227.	1.1	110
21	A novel high-order algorithm for the numerical estimation of fractional differential equations. Journal of Computational and Applied Mathematics, 2018, 342, 180-201.	1.1	12
22	A higher order numerical method for time fractional partial differential equations with nonsmooth data. Journal of Computational Physics, 2018, 357, 305-323.	1.9	45
23	Some Time Stepping Methods for Fractional Diffusion Problems with Nonsmooth Data. Computational Methods in Applied Mathematics, 2018, 18, 129-146.	0.4	16
24	Detailed error analysis for a fractional Adams method with graded meshes. Numerical Algorithms, 2018, 78, 1195-1216.	1.1	32
25	A note on finite difference methods for nonlinear fractional differential equations with non-uniform meshes. International Journal of Computer Mathematics, 2018, 95, 1151-1169.	1.0	29
26	Error Estimates of High-Order Numerical Methods for Solving Time Fractional Partial Differential Equations. Fractional Calculus and Applied Analysis, 2018, 21, 746-774.	1.2	9
27	Error estimates of a high order numerical method for solving linear fractional differential equations. Applied Numerical Mathematics, 2017, 114, 201-220.	1.2	23
28	Discontinuous Galerkin time stepping method for solving linear space fractional partial differential equations. Applied Numerical Mathematics, 2017, 115, 200-213.	1.2	25
29	An approach to construct higher order time discretisation schemes for time fractional partial differential equations with nonsmooth data. Fractional Calculus and Applied Analysis, 2017, 20, 1076-1105.	1.2	37
30	High-Order Numerical Methods for Solving Time Fractional Partial Differential Equations. Journal of Scientific Computing, 2017, 71, 785-803.	1.1	30
31	Fourier Spectral Methods for Some Linear Stochastic Space-Fractional Partial Differential Equations. Mathematics, 2016, 4, 45.	1.1	3
32	Numerical Solutions of Fractional Differential Equations by Extrapolation. Lecture Notes in Computer Science, 2015, , 299-306.	1.0	7
33	Existence of time periodic solutions for a class of non-resonant discrete wave equations. Advances in Difference Equations, 2015, 2015, .	3.5	0
34	An Algorithm for the Numerical Solution of Two-Sided Space-Fractional Partial Differential Equations. Computational Methods in Applied Mathematics, 2015, 15, 497-514.	0.4	14
35	Finite Difference Method for Two-Sided Space-Fractional Partial Differential Equations. Lecture Notes in Computer Science, 2015, , 307-314.	1.0	3
36	A Time Discretization Scheme for a Nonlocal Degenerate Problem Modelling Resistance Spot Welding. Mathematical Modelling of Natural Phenomena, 2015, 10, 90-112.	0.9	4

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37	A Dufort-Frankel Difference Scheme for Two-Dimensional Sine-Gordon Equation. Discrete Dynamics in Nature and Society, 2014, 2014, 1-22.	0.5	9
38	Higher order numerical methods for solving fractional differential equations. BIT Numerical Mathematics, 2014, 54, 555-584.	1.0	75
39	Numerical analysis of a two-parameter fractional telegraph equation. Journal of Computational and Applied Mathematics, 2013, 249, 95-106.	1.1	30
40	Stability of a Numerical Method for a Space-time-fractional Telegraph Equation. Computational Methods in Applied Mathematics, 2012, 12, 273-288.	0.4	19
41	Stabilizing a mathematical model of population system. Journal of the Franklin Institute, 2011, 348, 2744-2758.	1.9	9
42	A finite element method for time fractional partial differential equations. Fractional Calculus and Applied Analysis, 2011, 14, 454-474.	1.2	174
43	Analytical and numerical treatment of oscillatory mixed differential equations with differentiable delays and advances. Journal of Computational and Applied Mathematics, 2011, 235, 5112-5130.	1.1	4
44	Numerical treatment of oscillatory functional differential equations. Journal of Computational and Applied Mathematics, 2010, 234, 2757-2767.	1.1	5
45	Finite-dimensional controller design for semilinear parabolic systems. Nonlinear Analysis: Theory, Methods & Applications, 2009, 70, 4451-4475.	0.6	4
46	Internal Optimal Controller Synthesis for Navierâ€“Stokes Equations. Numerical Functional Analysis and Optimization, 2008, 29, 225-242.	0.6	4
47	Internal controller design for semilinear parabolic systems. , 2007, , .		0
48	Postprocessing the Finite Element Method for Semilinear Parabolic Problems. SIAM Journal on Numerical Analysis, 2006, 44, 1681-1702.	1.1	11
49	GEOMETRIC ERGODICITY FOR DISSIPATIVE PARTICLE DYNAMICS. Stochastics and Dynamics, 2006, 06, 123-154.	0.6	16
50	Smoothing properties in multistep backward difference method and time derivative approximation for linear parabolic equations. International Journal of Mathematics and Mathematical Sciences, 2005, 2005, 523-536.	0.3	0
51	Stabilizing Semilinear Parabolic Equations. Numerical Functional Analysis and Optimization, 2005, 26, 449-480.	0.6	6
52	Galerkin Finite Element Methods for Stochastic Parabolic Partial Differential Equations. SIAM Journal on Numerical Analysis, 2005, 43, 1363-1384.	1.1	162
53	Semidiscrete Galerkin Approximation for a Linear Stochastic Parabolic Partial Differential Equation Driven by an Additive Noise. BIT Numerical Mathematics, 2004, 44, 829-847.	1.0	52
54	Smoothing Properties and Approximation of Time Derivatives for Parabolic Equations: Variable Time Steps. BIT Numerical Mathematics, 2003, 43, 647-669.	1.0	4

#	Article	IF	Citations
55	Smoothing properties and approximation of time derivatives for parabolic equations: constant time steps. IMA Journal of Numerical Analysis, 2003, 23, 465-487.	1.5	11