

Da Xu

List of Publications by Year in descending order

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83
papers

1,311
citations

304743

22
h-index

454955

30
g-index

83
all docs

83
docs citations

83
times ranked

329
citing authors

#	ARTICLE	IF	CITATIONS
1	Alternating direction implicit Galerkin finite element method for the two-dimensional fractional diffusion-wave equation. <i>Journal of Computational Physics</i> , 2013, 255, 471-485.	3.8	64
2	Orthogonal spline collocation method for the two-dimensional fractional sub-diffusion equation. <i>Journal of Computational Physics</i> , 2014, 256, 824-837.	3.8	52
3	A time two-grid algorithm based on finite difference method for the two-dimensional nonlinear time-fractional mobile/immobile transport model. <i>Numerical Algorithms</i> , 2020, 85, 39-58.	1.9	49
4	Crank-Nicolson/quasi-wavelets method for solving fourth order partial integro-differential equation with a weakly singular kernel. <i>Journal of Computational Physics</i> , 2013, 234, 317-329.	3.8	43
5	A compact finite difference scheme for the fourth-order time-fractional integro-differential equation with a weakly singular kernel. <i>Numerical Methods for Partial Differential Equations</i> , 2020, 36, 439-458.	3.6	43
6	An ADI Crank-Nicolson Orthogonal Spline Collocation Method for the Two-Dimensional Fractional Diffusion-Wave Equation. <i>Journal of Scientific Computing</i> , 2015, 65, 1217-1239.	2.3	42
7	An alternating direction implicit orthogonal spline collocation method for the two dimensional multi-term time fractional integro-differential equation. <i>Applied Numerical Mathematics</i> , 2020, 151, 199-212.	2.1	41
8	A second-order BDF compact difference scheme for fractional-order Volterra equation. <i>International Journal of Computer Mathematics</i> , 2016, 93, 1140-1154.	1.8	40
9	Alternating direction implicit-Euler method for the two-dimensional fractional evolution equation. <i>Journal of Computational Physics</i> , 2013, 236, 157-168.	3.8	36
10	A second order BDF alternating direction implicit difference scheme for the two-dimensional fractional evolution equation. <i>Applied Mathematical Modelling</i> , 2017, 41, 54-67.	4.2	33
11	A robust error analysis of the OSC method for a multi-term fourth-order sub-diffusion equation. <i>Computers and Mathematics With Applications</i> , 2022, 109, 180-190.	2.7	33
12	A second-order accurate numerical method with graded meshes for an evolution equation with a weakly singular kernel. <i>Journal of Computational and Applied Mathematics</i> , 2019, 356, 152-163.	2.0	32
13	An alternating direction implicit Galerkin finite element method for the distributed-order time-fractional mobile-immobile equation in two dimensions. <i>Computers and Mathematics With Applications</i> , 2020, 80, 3156-3172.	2.7	29
14	WSGD-OSC Scheme for Two-Dimensional Distributed Order Fractional Reaction-Diffusion Equation. <i>Journal of Scientific Computing</i> , 2018, 76, 1502-1520.	2.3	28
15	The Crank-Nicolson-type Sinc-Galerkin method for the fourth-order partial integro-differential equation with a weakly singular kernel. <i>Applied Numerical Mathematics</i> , 2021, 159, 239-258.	2.1	28
16	The formally second-order BDF ADI difference/compact difference scheme for the nonlocal evolution problem in three-dimensional space. <i>Applied Numerical Mathematics</i> , 2022, 172, 359-381.	2.1	28
17	Quasi-wavelet based numerical method for fourth-order partial integro-differential equations with a weakly singular kernel. <i>International Journal of Computer Mathematics</i> , 2011, 88, 3236-3254.	1.8	27
18	An alternating direction implicit fractional trapezoidal rule type difference scheme for the two-dimensional fractional evolution equation. <i>International Journal of Computer Mathematics</i> , 2015, 92, 2178-2197.	1.8	27

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19	A high-order numerical method for solving the 2D fourth-order reaction-diffusion equation. Numerical Algorithms, 2019, 80, 849-877.	1.9	26
20	A second-order ADI difference scheme based on non-uniform meshes for the three-dimensional nonlocal evolution problem. Computers and Mathematics With Applications, 2021, 102, 137-145.	2.7	26
21	Compact Alternating Direction Implicit Scheme for Integro-Differential Equations of Parabolic Type. Journal of Scientific Computing, 2018, 76, 565-582.	2.3	23
22	Orthogonal spline collocation scheme for the multi-term time-fractional diffusion equation. International Journal of Computer Mathematics, 2018, 95, 1478-1493.	1.8	23
23	A finite difference scheme for the nonlinear time-fractional partial integro-differential equation. Mathematical Methods in the Applied Sciences, 2020, 43, 3392-3412.	2.3	23
24	Numerical solution of the fourth-order partial integro-differential equation with multi-term kernels by the Sinc-collocation method based on the double exponential transformation. Applied Mathematics and Computation, 2021, 392, 125693.	2.2	23
25	A backward euler orthogonal spline collocation method for the time-fractional Fokker-Planck equation. Numerical Methods for Partial Differential Equations, 2015, 31, 1534-1550.	3.6	22
26	An ADI difference scheme based on fractional trapezoidal rule for fractional integro-differential equation with a weakly singular kernel. Applied Mathematics and Computation, 2019, 354, 103-114.	2.2	22
27	Alternating direction implicit difference scheme for the multi-term time-fractional integro-differential equation with a weakly singular kernel. Computers and Mathematics With Applications, 2020, 79, 244-255.	2.7	22
28	A formally second-order BDF finite difference scheme for the integro-differential equations with the multi-term kernels. International Journal of Computer Mathematics, 2020, 97, 2055-2073.	1.8	21
29	BDF ADI orthogonal spline collocation scheme for the fractional integro-differential equation with two weakly singular kernels. Computers and Mathematics With Applications, 2019, 78, 3807-3820.	2.7	20
30	A fast ADI orthogonal spline collocation method with graded meshes for the two-dimensional fractional integro-differential equation. Advances in Computational Mathematics, 2021, 47, 1.	1.6	20
31	Quasi wavelet based numerical method for a class of partial integro-differential equation. Applied Mathematics and Computation, 2012, 218, 11842-11850.	2.2	19
32	The time discretization in classes of integro-differential equations with completely monotonic kernels: Weighted asymptotic stability. Science China Mathematics, 2013, 56, 395-424.	1.7	19
33	A compact difference scheme for a partial integro-differential equation with a weakly singular kernel. Applied Mathematical Modelling, 2015, 39, 947-954.	4.2	19
34	A formally second-order backward differentiation formula Sinc-collocation method for the Volterra integro-differential equation with a weakly singular kernel based on the double exponential transformation. Numerical Methods for Partial Differential Equations, 2022, 38, 830-847.	3.6	19
35	The time discretization in classes of integro-differential equations with completely monotonic kernels: Weighted asymptotic convergence. Numerical Methods for Partial Differential Equations, 2016, 32, 896-935.	3.6	18
36	Time two-grid algorithm based on finite difference method for two-dimensional nonlinear fractional evolution equations. Applied Numerical Mathematics, 2020, 152, 169-184.	2.1	18

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37	Numerical asymptotic stability for the integro-differential equations with the multi-term kernels. Applied Mathematics and Computation, 2017, 309, 107-132.	2.2	16
38	A formally second order BDF ADI difference scheme for the three-dimensional time-fractional heat equation. International Journal of Computer Mathematics, 2020, 97, 1100-1117.	1.8	16
39	An ADI compact difference scheme for the two-dimensional semilinear time-fractional mobile-immobile equation. Computational and Applied Mathematics, 2020, 39, 1.	2.2	16
40	A backward Euler alternating direction implicit difference scheme for the three-dimensional fractional evolution equation. Numerical Methods for Partial Differential Equations, 2018, 34, 938-958.	3.6	15
41	An Efficient Spline Collocation Method for a Nonlinear Fourth-Order Reaction Subdiffusion Equation. Journal of Scientific Computing, 2020, 85, 1.	2.3	15
42	Legendre Wavelets Direct Method for the Numerical Solution of Time-Fractional Order Telegraph Equations. Mediterranean Journal of Mathematics, 2018, 15, 1.	0.8	14
43	Orthogonal spline collocation method for the fourth-order diffusion system. Computers and Mathematics With Applications, 2018, 75, 3172-3185.	2.7	11
44	A semi-discrete scheme for solving fourth-order partial integro-differential equation with a weakly singular kernel using Legendre wavelets method. Computational and Applied Mathematics, 2018, 37, 4145-4168.	1.3	11
45	Weak Galerkin finite element method for a class of time fractional generalized Burgers' equation. Numerical Methods for Partial Differential Equations, 2021, 37, 732-749.	3.6	11
46	Decay Properties for the Numerical Solutions of a Partial Differential Equation with Memory. Journal of Scientific Computing, 2015, 62, 146-178.	2.3	10
47	High-order ADI orthogonal spline collocation method for a new 2D fractional integro-differential problem. Mathematical Methods in the Applied Sciences, 2020, 43, 5162-5178.	2.3	10
48	Uniform L1 error bounds for the semidiscrete solution of a Volterra equation with completely monotonic convolution kernel. Computers and Mathematics With Applications, 2002, 43, 1303-1318.	2.7	9
49	Boundary Observability of Semi-Discrete Second-Order Integro-Differential Equations Derived from Piecewise Hermite Cubic Orthogonal Spline Collocation Method. Applied Mathematics and Optimization, 2018, 77, 73-97.	1.6	8
50	Uniform L^1 convergence in the Crank-Nicolson method of a linear integro-differential equation for viscoelastic rods and plates. Mathematics of Computation, 2013, 83, 735-769.	2.1	7
51	Legendre wavelets method for approximate solution of fractional-order differential equations under multi-point boundary conditions. International Journal of Computer Mathematics, 2018, 95, 998-1014.	1.8	7
52	Weak Galerkin finite element method for the parabolic integro-differential equation with weakly singular kernel. Computational and Applied Mathematics, 2019, 38, 1.	2.2	6
53	Uniform L^1 behavior in the Crank-Nicolson methods for a linear Volterra equation with convex kernel. Calcolo, 2014, 51, 57-96.	1.1	5
54	Weighted Paley-Wiener Theorem, with applications to stability of the linear multi-step methods for Volterra equations in Hilbert spaces. Journal of Mathematical Analysis and Applications, 2012, 389, 1006-1019.	1.0	4

#	ARTICLE	IF	CITATIONS
55	The long time error analysis in the second order difference type method of an evolutionary integral equation with completely monotonic kernel. <i>Advances in Computational Mathematics</i> , 2014, 40, 881-922.	1.6	4
56	Alternating direction implicit OSC scheme for the two-dimensional fractional evolution equation with a weakly singular kernel. <i>Acta Mathematica Scientia</i> , 2018, 38, 1689-1711.	1.0	4
57	Second-order difference approximations for Volterra equations with the completely monotonic kernels. <i>Numerical Algorithms</i> , 2019, 81, 1003-1041.	1.9	4
58	Analytical and numerical solutions of a class of nonlinear integro-differential equations with $\int_0^t \int_0^s L(u,v) du dv$. <i>Nonlinear Analysis: Real World Applications</i> , 2020, 51, 103002.	1.7	4
59	Weak Galerkin finite-element method for time-fractional nonlinear integro-differential equations. <i>Computational and Applied Mathematics</i> , 2020, 39, 1.	2.2	4
60	Observability Inequalities for Hermite Bi-cubic Orthogonal Spline Collocation Methods of 2-D Integro-differential Equations in the Square Domains. <i>Applied Mathematics and Optimization</i> , 2021, 84, 1341-1372.	1.6	4
61	Quasi Wavelet based numerical method for Volterra integro-differential equations on unbounded spatial domains. <i>Applied Mathematics and Computation</i> , 2014, 227, 509-517.	2.2	3
62	Orthogonal spline collocation scheme for multiterm fractional convection-diffusion equation with variable coefficients. <i>Numerical Methods for Partial Differential Equations</i> , 2018, 34, 555-574.	3.6	3
63	A high-order numerical scheme using orthogonal spline collocation for solving the two-dimensional fractional reaction-subdiffusion equation. <i>Advances in Difference Equations</i> , 2019, 2019, .	3.5	3
64	Orthogonal spline collocation method for the two-dimensional time fractional mobile-immobile equation. <i>Journal of Applied Mathematics and Computing</i> , 0, , 1.	2.5	3
65	An efficient Sinc-collocation method via the DE transformation for eighth-order boundary value problems. <i>Journal of Computational and Applied Mathematics</i> , 2022, 408, 114136.	2.0	3
66	The Uniform L 2 Behavior for Time Discretization of an Evolution Equation. <i>Acta Mathematica Sinica, English Series</i> , 2003, 19, 127-140.	0.6	2
67	Numerical solution of evolutionary integral equations with completely monotonic kernel by Runge-Kutta convolution quadrature. <i>Numerical Methods for Partial Differential Equations</i> , 2015, 31, 105-142.	3.6	2
68	Observability inequality for piecewise Hermite cubic orthogonal spline collocation semi-discretization of the wave-Petrovsky system with memory. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2020, 100, e201900265.	1.6	2
69	On the Observability of Time Discrete Integro-differential Systems. <i>Applied Mathematics and Optimization</i> , 2021, 83, 565-637.	1.6	2
70	Unconditional convergence of linearized orthogonal spline collocation algorithm for semilinear subdiffusion equation with nonsmooth solution. <i>Numerical Methods for Partial Differential Equations</i> , 2021, 37, 1361-1373.	3.6	2
71	Uniform l1 behavior of the first-order interpolant quadrature scheme for some partial integro-differential equations. <i>Applied Mathematics Letters</i> , 2021, 117, 107097.	2.7	2
72	High-order orthogonal spline collocation method with graded meshes for two-dimensional fractional evolution integro-differential equation. <i>International Journal of Computer Mathematics</i> , 2022, 99, 1305-1324.	1.8	2

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73	An efficient Sinc-collocation method by the single exponential transformation for the nonlinear fourth-order partial integro-differential equation with multiterm kernels. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	2.3	2
74	An ADI finite difference method for the two-dimensional Volterra integro-differential equation with weakly singular kernel. <i>International Journal of Computer Mathematics</i> , 2022, 99, 2542-2554.	1.8	2
75	The Asymptotic Behavior for Numerical Solution of a Volterra Equation. <i>Acta Mathematicae Applicatae Sinica</i> , 2003, 19, 47-58.	0.7	1
76	Crank-Nicolson Quasi-Wavelet Based Numerical Method for Volterra Integro-Differential Equations on Unbounded Spatial Domains. <i>East Asian Journal on Applied Mathematics</i> , 2013, 3, 283-292.	0.9	1
77	Numerical analysis of Volterra integro-differential equations for viscoelastic rods and membranes. <i>Applied Mathematics and Computation</i> , 2019, 355, 1-20.	2.2	1
78	Application of the Crank-Nicolson time integrator to viscoelastic wave equations with boundary feedback damping. <i>IMA Journal of Numerical Analysis</i> , 2020, , .	2.9	1
79	Fast ADI difference/compact difference schemes for the nonlocal evolution equation with weakly singular kernels in three dimensions. <i>Mathematics and Computers in Simulation</i> , 2022, 194, 329-347.	4.4	1
80	The numerical analysis on a Volterra equation with asymptotically periodic solution. <i>Journal of Computational and Applied Mathematics</i> , 2011, 236, 684-698.	2.0	0
81	On the observability inequalities of time discrete 2D integro-differential systems in square domains. <i>Numerical Methods for Partial Differential Equations</i> , 2020, , .	3.6	0
82	Numerical solutions of viscoelastic bending wave equations with two term time kernels by Runge-Kutta convolution quadrature. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2017, 22, 2389-2416.	0.9	0
83	A spectral order method for solving the nonlinear fourth-order time-fractional problem. <i>Journal of Applied Mathematics and Computing</i> , 0, , 1.	2.5	0