

Xian-Ming Gu

List of Publications by Year in descending order

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70
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citations

471509

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534
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#	ARTICLE	IF	CITATIONS
1	Two finite difference methods based on an H2N2 interpolation for two-dimensional time fractional mixed diffusion and diffusion-wave equations. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2022, 27, 1179.	0.9	7
2	Efficient energy preserving Galerkin–Legendre spectral methods for fractional nonlinear Schrödinger equation with wave operator. <i>Applied Numerical Mathematics</i> , 2022, 172, 608-628.	2.1	8
3	A hybrid triangulation method for banded linear systems. <i>Mathematics and Computers in Simulation</i> , 2022, 194, 97-108.	4.4	1
4	A simpler GMRES algorithm accelerated by Chebyshev polynomials for computing PageRank. <i>Journal of Computational and Applied Mathematics</i> , 2022, , 114395.	2.0	1
5	A variant of the Power–Arnoldi algorithm for computing PageRank. <i>Journal of Computational and Applied Mathematics</i> , 2021, 381, 113034.	2.0	19
6	Preconditioners for all-at-once system from the fractional mobile/immobile advection–diffusion model. <i>Journal of Applied Mathematics and Computing</i> , 2021, 65, 669-691.	2.5	7
7	A Lagrange-quadratic spline optimal collocation method for the time tempered fractional diffusion equation. <i>Mathematics and Computers in Simulation</i> , 2021, 182, 1-24.	4.4	9
8	A fast implicit difference scheme for solving the generalized time–space fractional diffusion equations with variable coefficients. <i>Numerical Methods for Partial Differential Equations</i> , 2021, 37, 1136-1162.	3.6	19
9	Fast implicit difference schemes for time–space fractional diffusion equations with the integral fractional Laplacian. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 441-463.	2.3	16
10	An efficient second-order energy stable BDF scheme for the space fractional Cahn–Hilliard equation. <i>BIT Numerical Mathematics</i> , 2021, 61, 1061-1092.	2.0	8
11	On the preserving of the maximum principle and energy stability of high-order implicit-explicit Runge-Kutta schemes for the space-fractional Allen-Cahn equation. <i>Numerical Algorithms</i> , 2021, 88, 1309-1336.	1.9	12
12	An adaptive Power-GArnoldi algorithm for computing PageRank. <i>Journal of Computational and Applied Mathematics</i> , 2021, 386, 113209.	2.0	5
13	Anderson Acceleration of the Arnoldi-Inout Method for Computing PageRank. <i>Symmetry</i> , 2021, 13, 636.	2.2	1
14	A Flexible Global GCRO-DR Method for Shifted Linear Systems and General Coupled Matrix Equations. <i>Journal of Mathematics</i> , 2021, 2021, 1-17.	1.0	1
15	A Preconditioning Technique for an All-at-once System from Volterra Subdiffusion Equations with Graded Time Steps. <i>Journal of Scientific Computing</i> , 2021, 88, 1.	2.3	32
16	A Preconditioned Variant of the Refined Arnoldi Method for Computing PageRank Eigenvectors. <i>Symmetry</i> , 2021, 13, 1327.	2.2	2
17	Fast second-order implicit difference schemes for time distributed-order and Riesz space fractional diffusion-wave equations. <i>Computers and Mathematics With Applications</i> , 2021, 94, 136-154.	2.7	9
18	Three-dimensional fractional total variation regularized tensor optimized model for image deblurring. <i>Applied Mathematics and Computation</i> , 2021, 404, 126224.	2.2	15

#	ARTICLE	IF	CITATIONS
19	An implicit difference scheme for time-fractional diffusion equations with a time-invariant type variable order. <i>Applied Mathematics Letters</i> , 2021, 120, 107270.	2.7	37
20	Fast numerical schemes for nonlinear space-fractional multidelay reaction-diffusion equations by implicit integration factor methods. <i>Applied Mathematics and Computation</i> , 2021, 408, 126360.	2.2	2
21	A low-rank Lie-Trotter splitting approach for nonlinear fractional complex Ginzburg-Landau equations. <i>Journal of Computational Physics</i> , 2021, 446, 110652.	3.8	10
22	Learning Discriminative Text Representation for Streaming Social Event Detection. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2021, , 1-1.	5.7	2
23	Fast IIF-WENO Method on Non-uniform Meshes for Nonlinear Space-Fractional Convection-Diffusion-Reaction Equations. <i>Journal of Scientific Computing</i> , 2021, 89, 1.	2.3	3
24	A Fast Preconditioned Semi-Implicit Difference Scheme for Strongly Nonlinear Space-Fractional Diffusion Equations. <i>Fractal and Fractional</i> , 2021, 5, 230.	3.3	6
25	A Fast Second-Order Implicit Difference Method for Time-Space Fractional Advection-Diffusion Equation. <i>Numerical Functional Analysis and Optimization</i> , 2020, 41, 257-293.	1.4	6
26	A parallel-in-time iterative algorithm for Volterra partial integro-differential problems with weakly singular kernel. <i>Journal of Computational Physics</i> , 2020, 417, 109576.	3.8	77
27	Fast compact implicit integration factor method with non-uniform meshes for the two-dimensional nonlinear Riesz space-fractional reaction-diffusion equation. <i>Applied Numerical Mathematics</i> , 2020, 156, 346-363.	2.1	12
28	A Local Coupling Multitrace Domain Decomposition Method for Electromagnetic Scattering From Multilayered Dielectric Objects. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 7099-7108.	5.1	15
29	Efficient variants of the CMRH method for solving a sequence of multi-shifted non-Hermitian linear systems simultaneously. <i>Journal of Computational and Applied Mathematics</i> , 2020, 375, 112788.	2.0	7
30	A Preconditioning Technique for All-at-Once System from the Nonlinear Tempered Fractional Diffusion Equation. <i>Journal of Scientific Computing</i> , 2020, 83, 1.	2.3	23
31	Fast implicit integration factor method for nonlinear space Riesz fractional reaction-diffusion equations. <i>Journal of Computational and Applied Mathematics</i> , 2020, 378, 112935.	2.0	11
32	Efficient Preconditioned Iterative Linear Solvers for 3-D Magnetostatic Problems Using Edge Elements. <i>Advances in Applied Mathematics and Mechanics</i> , 2020, 12, 301-318.	1.2	9
33	Compact implicit integration factor method for two-dimensional space-fractional advection-diffusion-reaction equations. <i>Journal of Physics: Conference Series</i> , 2020, 1592, 012048.	0.4	0
34	Off-diagonal low-rank preconditioner for difficult PageRank problems. <i>Journal of Computational and Applied Mathematics</i> , 2019, 346, 456-470.	2.0	10
35	Well-posedness of the fractional Ginzburg-Landau equation. <i>Applicable Analysis</i> , 2019, 98, 2545-2558.	1.3	8
36	An implicit integration factor method for a kind of spatial fractional diffusion equations. <i>Journal of Physics: Conference Series</i> , 2019, 1324, 012030.	0.4	0

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37	A limited-memory block bi-diagonal Toeplitz preconditioner for block lower triangular Toeplitz system from time-space fractional diffusion equation. <i>Journal of Computational and Applied Mathematics</i> , 2019, 362, 99-115.	2.0	11
38	Numerical Gradient Schemes for Heat Equations Based on the Collocation Polynomial and Hermite Interpolation. <i>Mathematics</i> , 2019, 7, 93.	2.2	4
39	A flexible and adaptive Simpler GMRES with deflated restarting for shifted linear systems. <i>Computers and Mathematics With Applications</i> , 2019, 78, 997-1007.	2.7	7
40	A Breakdown-Free Block COCG Method for Complex Symmetric Linear Systems with Multiple Right-Hand Sides. <i>Symmetry</i> , 2019, 11, 1302.	2.2	2
41	A fast linearized conservative finite element method for the strongly coupled nonlinear fractional Schrödinger equations. <i>Journal of Computational Physics</i> , 2018, 358, 256-282.	3.8	155
42	Restarted Hessenberg method for solving shifted nonsymmetric linear systems. <i>Journal of Computational and Applied Mathematics</i> , 2018, 331, 166-177.	2.0	21
43	Block-accelerated aggregation multigrid for Markov chains with application to PageRank problems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018, 59, 472-487.	3.3	10
44	A High-Order Accurate Numerical Scheme for the Caputo Derivative with Applications to Fractional Diffusion Problems. <i>Numerical Functional Analysis and Optimization</i> , 2018, 39, 600-622.	1.4	30
45	Multipreconditioned GMRES for simulating stochastic automata networks. <i>Open Mathematics</i> , 2018, 16, 986-998.	1.0	0
46	The Weighted Arithmetic Mean-Geometric Mean Inequality is Equivalent to the Hölder Inequality. <i>Symmetry</i> , 2018, 10, 380.	2.2	7
47	Improved delay-probability-dependent results for stochastic neural networks with randomly occurring uncertainties and multiple delays. <i>International Journal of Systems Science</i> , 2018, 49, 2039-2059.	5.5	7
48	Fast Iterative Method with a Second-Order Implicit Difference Scheme for Time-Space Fractional Convection-Diffusion Equation. <i>Journal of Scientific Computing</i> , 2017, 72, 957-985.	2.3	84
49	Non-fragile asynchronous H_∞ control for uncertain stochastic memory systems with Bernoulli distribution. <i>Applied Mathematics and Computation</i> , 2017, 312, 109-128.	2.2	18
50	Barycentric rational collocation methods for a class of nonlinear parabolic partial differential equations. <i>Applied Mathematics Letters</i> , 2017, 68, 13-19.	2.7	35
51	An efficient elimination strategy for solving PageRank problems. <i>Applied Mathematics and Computation</i> , 2017, 298, 111-122.	2.2	21
52	Vector Extrapolation Based Landweber Method for Discrete Ill-Posed Problems. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-8.	1.1	7
53	TWO CSCS-BASED ITERATION METHODS FOR SOLVING ABSOLUTE VALUE EQUATIONS. <i>Journal of Applied Analysis and Computation</i> , 2017, 7, 1336-1356.	0.5	7
54	Fast permutation preconditioning for fractional diffusion equations. <i>SpringerPlus</i> , 2016, 5, 1109.	1.2	2

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55	BiCGCR2: A new extension of conjugate residual method for solving non-Hermitian linear systems. Journal of Computational and Applied Mathematics, 2016, 305, 115-128.	2.0	1
56	Quadratic spline collocation method for the time fractional subdiffusion equation. Applied Mathematics and Computation, 2016, 276, 252-265.	2.2	34
57	Fast iterative solvers for numerical simulations of scattering and radiation on thin wires. Journal of Electromagnetic Waves and Applications, 2015, 29, 1281-1296.	1.6	8
58	A hybridized iterative algorithm of the BiCORSTAB and GPBiCOR methods for solving non-Hermitian linear systems. Computers and Mathematics With Applications, 2015, 70, 3019-3031.	2.7	11
59	The SCBiCG class of algorithms for complex symmetric linear systems with applications in several electromagnetic model problems. Computer Physics Communications, 2015, 191, 52-64.	7.5	24
60	Circulant preconditioned iterations for fractional diffusion equations based on Hermitian and skew-Hermitian splittings. Applied Mathematics Letters, 2015, 48, 14-22.	2.7	8
61	On $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si43.gif" display="inline" overflow="scroll" \rangle \langle \text{mml:mi} \rangle k \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -step CSCS-based polynomial preconditioners for Toeplitz linear systems with application to fractional diffusion equations. Applied Mathematics Letters, 2015, 42, 53-58.	2.7	22
62	Strang-type preconditioners for solving fractional diffusion equations by boundary value methods. Journal of Computational and Applied Mathematics, 2015, 277, 73-86.	2.0	38
63	Some Refinements and Generalizations of I. Schur Type Inequalities. Scientific World Journal, The, 2014, 2014, 1-8.	2.1	0
64	Quasi-Minimal Residual Variants of the COCG and COCR Methods for Complex Symmetric Linear Systems in Electromagnetic Simulations. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 2859-2867.	4.6	23
65	Efficient preconditioner updates for unsymmetric shifted linear systems. Computers and Mathematics With Applications, 2014, 67, 1643-1655.	2.7	10
66	Circulant preconditioned iterative methods for peridynamic model simulation. Applied Mathematics and Computation, 2014, 248, 470-479.	2.2	11
67	BiCR-type methods for families of shifted linear systems. Computers and Mathematics With Applications, 2014, 68, 746-758.	2.7	12
68	On the symmetric doubly stochastic inverse eigenvalue problem. Linear Algebra and Its Applications, 2014, 445, 181-205.	0.9	16
69	Comment on "A note on the inverse eigenvalue problem for symmetric doubly stochastic matrices". Linear Algebra and Its Applications, 2013, 439, 2256-2262.	0.9	3
70	A Hessenberg-type algorithm for computing PageRank Problems. Numerical Algorithms, 0, , 1.	1.9	5