

Yongzhong Song

List of Publications by Year in descending order

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70
papers

848
citations

471509

17
h-index

526287

27
g-index

72
all docs

72
docs citations

72
times ranked

407
citing authors

#	ARTICLE	IF	CITATIONS
1	A linearly implicit structure-preserving Fourier pseudo-spectral scheme for the damped nonlinear Schrödinger equation in three dimensions. <i>Advances in Computational Mathematics</i> , 2020, 46, 1.	1.6	1
2	A fourth-order dissipation-preserving algorithm with fast implementation for space fractional nonlinear damped wave equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 91, 105432.	3.3	24
3	Structure-preserving algorithms for the two-dimensional sine-Gordon equation with Neumann boundary conditions. <i>Journal of Computational Physics</i> , 2019, 395, 166-185.	3.8	63
4	Maximum-norm error analysis of a conservative scheme for the damped nonlinear fractional Schrödinger equation. <i>Mathematics and Computers in Simulation</i> , 2019, 166, 206-223.	4.4	3
5	A new local energy-preserving algorithm for the BBM equation. <i>Applied Mathematics and Computation</i> , 2018, 324, 119-130.	2.2	9
6	USSOR methods for solving the rank deficient linear least squares problem. <i>Calcolo</i> , 2017, 54, 95-115.	1.1	0
7	On sinc discretization method and block-tridiagonal preconditioning for second-order differential-algebraic equations. <i>Computational and Applied Mathematics</i> , 2017, 36, 1747-1782.	1.3	0
8	An efficient projection method for nonlinear inverse problems with sparsity constraints. <i>Inverse Problems and Imaging</i> , 2016, 10, 689-709.	1.1	3
9	Dynamical analysis of a toxin-producing phytoplankton-zooplankton model with refuge. <i>Mathematical Biosciences and Engineering</i> , 2016, 13, 10-10.	1.9	9
10	A successive quadratic approximations method for nonlinear eigenvalue problems. <i>Journal of Computational and Applied Mathematics</i> , 2015, 290, 268-277.	2.0	18
11	Convergence radius of Halley's method for multiple roots under center-Hölder continuous condition. <i>Applied Mathematics and Computation</i> , 2015, 265, 1011-1018.	2.2	2
12	Dynamical behaviors of some iterative methods for multiple roots of nonlinear equations. <i>Applied Mathematics and Computation</i> , 2014, 246, 661-677.	2.2	0
13	On the convergence radius of the modified Newton method for multiple roots under the center-Hölder condition. <i>Numerical Algorithms</i> , 2014, 65, 221-232.	1.9	11
14	Multiquadric quasi-interpolation methods for solving partial differential algebraic equations. <i>Numerical Methods for Partial Differential Equations</i> , 2014, 30, 95-119.	3.6	8
15	Derivation of the multisymplectic Crank-Nicolson scheme for the nonlinear Schrödinger equation. <i>Computer Physics Communications</i> , 2014, 185, 2403-2411.	7.5	2
16	Convergence radius of Osada's method under center-Hölder continuous condition. <i>Applied Mathematics and Computation</i> , 2014, 243, 809-816.	2.2	7
17	Semi-convergence of parameterized Uzawa waveform relaxation method for a class of differential-algebraic equations. <i>Journal of Computational and Applied Mathematics</i> , 2014, 258, 67-77.	2.0	0
18	The PageRank model of minimal irreducible adjustment and its lumping method. <i>Journal of Applied Mathematics and Computing</i> , 2013, 42, 297-308.	2.5	3

#	ARTICLE	IF	CITATIONS
19	Families of third and fourth order methods for multiple roots of nonlinear equations. Applied Mathematics and Computation, 2013, 219, 6030-6038.	2.2	36
20	Numerical dispersion analysis of a multi-symplectic scheme for the three dimensional Maxwell's equations. Journal of Computational Physics, 2013, 234, 330-352.	3.8	10
21	Hopf Bifurcation of a Differential-Algebraic Bioeconomic Model with Time Delay. Journal of Applied Mathematics, 2012, 2012, 1-15.	0.9	1
22	Convergence Radius of Osada's Method for Multiple Roots under Hölder and Centered Hölder Continuous Conditions. , 2011, , .		4
23	A Local RBF-generated Finite Difference Method for Partial Differential Algebraic Equations. , 2011, , .		0
24	Two stage waveform relaxation method for the initial value problems of differential-algebraic equations. Journal of Computational and Applied Mathematics, 2011, 236, 1123-1136.	2.0	5
25	Constructing higher-order methods for obtaining the multiple roots of nonlinear equations. Journal of Computational and Applied Mathematics, 2011, 235, 4199-4206.	2.0	104
26	Semiconvergence of parallel multisplitting methods for symmetric positive semidefinite linear systems. Numerical Linear Algebra With Applications, 2011, 18, 317-324.	1.6	1
27	Optimal Parameters for 2-cyclic AOR. Applied Mathematics and Computation, 2010, 216, 1428-1442.	2.2	0
28	On parallel multisplitting methods for symmetric positive semidefinite linear systems. Numerical Linear Algebra With Applications, 2009, 16, 301-318.	1.6	2
29	A two-step SOR-Newton method for nonsmooth equations. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, 4387-4395.	1.1	3
30	Preconditioned GAOR methods for solving weighted linear least squares problems. Journal of Computational and Applied Mathematics, 2009, 224, 242-249.	2.0	18
31	Preconditioned AOR iterative methods for $\ A\ $ rank deficient least squares problems. Journal of Computational and Applied Mathematics, 2009, 224, 242-249.	2.0	22
32	A robust trigonometrically fitted embedded pair for perturbed oscillators. Journal of Computational and Applied Mathematics, 2009, 225, 347-355.	2.0	25
33	AOR iterative methods for rank deficient least squares problems. Journal of Applied Mathematics and Computing, 2008, 26, 105-124.	2.5	3
34	Semiconvergence of P-regular splittings for solving singular linear systems. Calcolo, 2008, 45, 247-261.	1.1	5
35	New embedded pairs of explicit Runge-Kutta methods with FSAL properties adapted to the numerical integration of oscillatory problems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6551-6559.	2.1	8
36	On the semiconvergence of additive and multiplicative splitting iterations for singular linear systems. Applied Mathematics and Computation, 2008, 204, 794-801.	2.2	0

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37	Trigonometrically fitted explicit Numerov-type method for periodic IVPs with two frequencies. Computer Physics Communications, 2008, 179, 801-811.	7.5	19
38	Differential transform method applied to high index differential-algebraic equations. Applied Mathematics and Computation, 2007, 184, 748-753.	2.2	68
39	Semiconvergence of block AOR method for singular p-cyclic matrices. Applied Mathematics and Computation, 2007, 189, 1637-1647.	2.2	1
40	Preconditioned AOR iterative method for linear systems. Applied Numerical Mathematics, 2007, 57, 672-685.	2.1	31
41	On multi-symplectic partitioned Runge-Kutta methods for Hamiltonian wave equations. Applied Mathematics and Computation, 2006, 177, 36-43.	2.2	9
42	On a regularization of index 3 differential-algebraic equations. Applied Mathematics and Computation, 2006, 181, 1369-1378.	2.2	1
43	On parallel multisplitting iterative methods for singular linear systems. Applied Mathematics and Computation, 2005, 162, 585-604.	2.2	5
44	The impact of fading correlation on the error performance of MIMO systems over Rayleigh fading channels. IEEE Transactions on Wireless Communications, 2005, 4, 2014-2019.	9.2	19
45	Stability of numerical methods for solving linear index-3 DAEs. Applied Mathematics and Computation, 2003, 134, 35-50.	2.2	1
46	Modified AOR methods for linear complementarity problem. Applied Mathematics and Computation, 2003, 140, 53-67.	2.2	33
47	On the semiconvergence of extrapolated iterative methods for singular linear systems. Applied Numerical Mathematics, 2003, 44, 401-413.	2.1	10
48	Comparison theorems for splittings of matrices. Numerische Mathematik, 2002, 92, 563-591.	1.9	24
49	Splitting based on the outer inverse of matrices. Applied Mathematics and Computation, 2002, 132, 353-368.	2.2	7
50	A note on the variation of the spectrum of an arbitrary matrix. Linear Algebra and Its Applications, 2002, 342, 41-46.	0.9	11
51	Monotone Convergence of Iterative Methods for Singular Linear Systems. BIT Numerical Mathematics, 2002, 42, 611-624.	2.0	2
52	SOLVABILITY OF HIGHER INDEX TIME-VARYING LINEAR DIFFERENTIAL-ALGEBRAIC EQUATIONS. Acta Mathematica Scientia, 2001, 21, 77-92.	1.0	6
53	Semiconvergence of block SOR method for singular linear systems with p-cyclic matrices. Journal of Computational and Applied Mathematics, 2001, 130, 217-229.	2.0	7
54	Regularization methods for solving differential-algebraic equations. Applied Mathematics and Computation, 2001, 119, 283-296.	2.2	12

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55	Comparisons of Block Iterative Methods. <i>Annals of Operations Research</i> , 2001, 103, 359-369.	4.1	2
56	On an inequality for the Hadamard product of an M-matrix and its inverse. <i>Linear Algebra and Its Applications</i> , 2000, 305, 99-105.	0.9	26
57	Semiconvergence of nonnegative splittings for singular matrices. <i>Numerische Mathematik</i> , 2000, 85, 109-127.	1.9	15
58	Semiconvergence of extrapolated iterative methods for singular linear systems. <i>Journal of Computational and Applied Mathematics</i> , 1999, 106, 117-129.	2.0	12
59	A Note on an Error Bound for the AOR Method. <i>BIT Numerical Mathematics</i> , 1999, 39, 373-383.	2.0	3
60	Methodes iteratives de type sor pour resoudre les problemes des moindres carres. <i>International Journal of Computer Mathematics</i> , 1998, 68, 99-118.	1.8	1
61	Error Bounds for some overrelaxation methods. <i>International Journal of Computer Mathematics</i> , 1998, 70, 263-278.	1.8	0
62	On the convergence of the MAOR method. <i>Journal of Computational and Applied Mathematics</i> , 1997, 79, 299-317.	2.0	16
63	On the convergence of the generalized AOR method. <i>Linear Algebra and Its Applications</i> , 1997, 256, 199-218.	0.9	20
64	Chaotic waveform relaxation methods for dynamical systems. <i>Applied Mathematics and Computation</i> , 1996, 78, 83-100.	2.2	0
65	Multi-parameters overrelaxation (MPOR) method for solving linear systems. <i>International Journal of Computer Mathematics</i> , 1995, 59, 77-90.	1.8	2
66	Convergence of parallel multisplitting methods for h-matrices. <i>International Journal of Computer Mathematics</i> , 1994, 50, 213-232.	1.8	18
67	On the convergence of relaxed parallel chaotic iterations for h-matrix yongzhong song. <i>International Journal of Computer Mathematics</i> , 1994, 52, 195-209.	1.8	8
68	Some comparison theorems for nonnegative splittings of matrices. <i>Numerische Mathematik</i> , 1993, 65, 245-252.	1.9	10
69	Lower bounds for the Perron root of a nonnegative matrix. <i>Linear Algebra and Its Applications</i> , 1992, 169, 269-278.	0.9	3
70	Comparisons of nonnegative splittings of matrices. <i>Linear Algebra and Its Applications</i> , 1991, 154-156, 433-455.	0.9	36