

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	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
2	Differential transform method applied to high index differential algebraic equations. Applied Mathematics and Computation, 2007, 184, 748-753.	2.2	68
3	Structure-preserving algorithms for the two-dimensional sine-Gordon equation with Neumann boundary conditions. Journal of Computational Physics, 2019, 395, 166-185.	3.8	63
4	Comparisons of nonnegative splittings of matrices. Linear Algebra and Its Applications, 1991, 154-156, 433-455.	0.9	36
5	Families of third and fourth order methods for multiple roots of nonlinear equations. Applied Mathematics and Computation, 2013, 219, 6030-6038.	2.2	36
6	Modified AOR methods for linear complementarity problem. Applied Mathematics and Computation, 2003, 140, 53-67.	2.2	33
7	Preconditioned AOR iterative method for linear systems. Applied Numerical Mathematics, 2007, 57, 672-685.	2.1	31
8	On an inequality for the Hadamard product of an M-matrix and its inverse. Linear Algebra and Its Applications, 2000, 305, 99-105.	0.9	26
9	A robust trigonometrically fitted embedded pair for perturbed oscillators. Journal of Computational and Applied Mathematics, 2009, 225, 347-355.	2.0	25
10	Comparison theorems for splittings of matrices. Numerische Mathematik, 2002, 92, 563-591.	1.9	24
11	A fourth-order dissipation-preserving algorithm with fast implementation for space fractional nonlinear damped wave equations. Communications in Nonlinear Science and Numerical Simulation, 2020, 97, 105410.	3.3	24
12	Preconditioned AOR iterative methods for $\langle \text{mml:math altimg="si8.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/ce" \rangle$	2.0	22
13	On the convergence of the generalized AOR method. Linear Algebra and Its Applications, 1997, 256, 199-218.	0.9	20
14	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
15	Trigonometrically fitted explicit Numerov-type method for periodic IVPs with two frequencies. Computer Physics Communications, 2008, 179, 801-811.	7.5	19
16	Convergence of parallel multisplitting methods for h-matrices. International Journal of Computer Mathematics, 1994, 50, 213-232.	1.8	18
17	Preconditioned GAOR methods for solving weighted linear least squares problems. Journal of Computational and Applied Mathematics, 2009, 224, 242-249.	2.0	18
18	A successive quadratic approximations method for nonlinear eigenvalue problems. Journal of Computational and Applied Mathematics, 2015, 290, 268-277.	2.0	18

#	ARTICLE	IF	CITATIONS
19	On the convergence of the MAOR method. <i>Journal of Computational and Applied Mathematics</i> , 1997, 79, 299-317.	2.0	16
20	Semiconvergence of nonnegative splittings for singular matrices. <i>Numerische Mathematik</i> , 2000, 85, 109-127.	1.9	15
21	Semiconvergence of extrapolated iterative methods for singular linear systems. <i>Journal of Computational and Applied Mathematics</i> , 1999, 106, 117-129.	2.0	12
22	Regularization methods for solving differential-algebraic equations. <i>Applied Mathematics and Computation</i> , 2001, 119, 283-296.	2.2	12
23	A note on the variation of the spectrum of an arbitrary matrix. <i>Linear Algebra and Its Applications</i> , 2002, 342, 41-46.	0.9	11
24	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
25	Some comparison theorems for nonnegative splittings of matrices. <i>Numerische Mathematik</i> , 1993, 65, 245-252.	1.9	10
26	On the semiconvergence of extrapolated iterative methods for singular linear systems. <i>Applied Numerical Mathematics</i> , 2003, 44, 401-413.	2.1	10
27	Numerical dispersion analysis of a multi-symplectic scheme for the three dimensional Maxwell's equations. <i>Journal of Computational Physics</i> , 2013, 234, 330-352.	3.8	10
28	On multi-symplectic partitioned Runge-Kutta methods for Hamiltonian wave equations. <i>Applied Mathematics and Computation</i> , 2006, 177, 36-43.	2.2	9
29	A new local energy-preserving algorithm for the BBM equation. <i>Applied Mathematics and Computation</i> , 2018, 324, 119-130.	2.2	9
30	Dynamical analysis of a toxin-producing phytoplankton-zooplankton model with refuge. <i>Mathematical Biosciences and Engineering</i> , 2016, 13, 10-10.	1.9	9
31	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
32	New embedded pairs of explicit Runge-Kutta methods with FSAL properties adapted to the numerical integration of oscillatory problems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 6551-6559.	2.1	8
33	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
34	Semiconvergence of block SOR method for singular linear systems with p-cyclic matrices. <i>Journal of Computational and Applied Mathematics</i> , 2001, 130, 217-229.	2.0	7
35	Splitting based on the outer inverse of matrices. <i>Applied Mathematics and Computation</i> , 2002, 132, 353-368.	2.2	7
36	Convergence radius of Osada's method under center-Hölder continuous condition. <i>Applied Mathematics and Computation</i> , 2014, 243, 809-816.	2.2	7

#	ARTICLE	IF	CITATIONS
37	SOLVABILITY OF HIGHER INDEX TIME-VARYING LINEAR DIFFERENTIAL-ALGEBRAIC EQUATIONS. Acta Mathematica Scientia, 2001, 21, 77-92.	1.0	6
38	On parallel multisplitting iterative methods for singular linear systems. Applied Mathematics and Computation, 2005, 162, 585-604.	2.2	5
39	Semiconvergence of P-regular splittings for solving singular linear systems. Calcolo, 2008, 45, 247-261.	1.1	5
40	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
41	Convergence Radius of Osada's Method for Multiple Roots under Hölder and Center-Hölder Continuous Conditions. , 2011, , .		4
42	Lower bounds for the Perron root of a nonnegative matrix. Linear Algebra and Its Applications, 1992, 169, 269-278.	0.9	3
43	A Note on an Error Bound for the AOR Method. BIT Numerical Mathematics, 1999, 39, 373-383.	2.0	3
44	AOR iterative methods for rank deficient least squares problems. Journal of Applied Mathematics and Computing, 2008, 26, 105-124.	2.5	3
45	A two-step SOR-Newton method for nonsmooth equations. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, 4387-4395.	1.1	3
46	The PageRank model of minimal irreducible adjustment and its lumping method. Journal of Applied Mathematics and Computing, 2013, 42, 297-308.	2.5	3
47	Maximum-norm error analysis of a conservative scheme for the damped nonlinear fractional Schrödinger equation. Mathematics and Computers in Simulation, 2019, 166, 206-223.	4.4	3
48	An efficient projection method for nonlinear inverse problems with sparsity constraints. Inverse Problems and Imaging, 2016, 10, 689-709.	1.1	3
49	Multi-parameters overrelaxation (MPOR) method for solving linear systems ¹ . International Journal of Computer Mathematics, 1995, 59, 77-90.	1.8	2
50	Comparisons of Block Iterative Methods. Annals of Operations Research, 2001, 103, 359-369.	4.1	2
51	Monotone Convergence of Iterative Methods for Singular Linear Systems. BIT Numerical Mathematics, 2002, 42, 611-624.	2.0	2
52	On parallel multisplitting methods for symmetric positive semidefinite linear systems. Numerical Linear Algebra With Applications, 2009, 16, 301-318.	1.6	2
53	Derivation of the multisymplectic Crank-Nicolson scheme for the nonlinear Schrödinger equation. Computer Physics Communications, 2014, 185, 2403-2411.	7.5	2
54	Convergence radius of Halley's method for multiple roots under center-Hölder continuous condition. Applied Mathematics and Computation, 2015, 265, 1011-1018.	2.2	2

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55	Methodes iteratives de type sor pour resoudre les problemes des moindres carres—. International Journal of Computer Mathematics, 1998, 68, 99-118.	1.8	1
56	Stability of numerical methods for solving linear index-3 DAEs. Applied Mathematics and Computation, 2003, 134, 35-50.	2.2	1
57	On a regularization of index 3 differential-algebraic equations. Applied Mathematics and Computation, 2006, 181, 1369-1378.	2.2	1
58	Semiconvergence of block AOR method for singular p-cyclic matrices. Applied Mathematics and Computation, 2007, 189, 1637-1647.	2.2	1
59	Semiconvergence of parallel multisplitting methods for symmetric positive semidefinite linear systems. Numerical Linear Algebra With Applications, 2011, 18, 317-324.	1.6	1
60	Hopf Bifurcation of a Differential-Algebraic Bioeconomic Model with Time Delay. Journal of Applied Mathematics, 2012, 2012, 1-15.	0.9	1
61	A linearly implicit structure-preserving Fourier pseudo-spectral scheme for the damped nonlinear Schrödinger equation in three dimensions. Advances in Computational Mathematics, 2020, 46, 1.	1.6	1
62	Chaotic waveform relaxation methods for dynamical systems. Applied Mathematics and Computation, 1996, 78, 83-100.	2.2	0
63	Error Bounds for some overrelaxation methods. International Journal of Computer Mathematics, 1998, 70, 263-278.	1.8	0
64	On the semiconvergence of additive and multiplicative splitting iterations for singular linear systems. Applied Mathematics and Computation, 2008, 204, 794-801.	2.2	0
65	Optimal Parameters for 2-cyclic AOR. Applied Mathematics and Computation, 2010, 216, 1428-1442.	2.2	0
66	A Local RBF-generated Finite Difference Method for Partial Differential Algebraic Equations. , 2011, , .		0
67	Dynamical behaviors of some iterative methods for multiple roots of nonlinear equations. Applied Mathematics and Computation, 2014, 246, 661-677.	2.2	0
68	Semi-convergence of parameterized Uzawa waveform relaxation method for a class of differential-algebraic equations. Journal of Computational and Applied Mathematics, 2014, 258, 67-77.	2.0	0
69	USSOR methods for solving the rank deficient linear least squares problem. Calcolo, 2017, 54, 95-115.	1.1	0
70	On sinc discretization method and block-tridiagonal preconditioning for second-order differential-algebraic equations. Computational and Applied Mathematics, 2017, 36, 1747-1782.	1.3	0