Chun-Hua Guo

List of Publications by Year
in descending order

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41 papers	1,204 citations	331259 21 h-index	377514 34 g-index
41 all docs	41 docs citations	41 times ranked	307 citing authors

#	Article	IF	Citations
1	Iterative solution of two matrix equations. Mathematics of Computation, 1999, 68, 1589-1604.	1.1	132
2	Nonsymmetric Algebraic Riccati Equations and Wiener--Hopf Factorization for M-Matrices. SIAM Journal on Matrix Analysis and Applications, 2001, 23, 225-242.	0.7	122
3	On the Iterative Solution of a Class of Nonsymmetric Algebraic Riccati Equations. SIAM Journal on Matrix Analysis and Applications, 2000, 22, 376-391.	0.7	110
4	Analysis and modificaton of Newton's method for algebraic Riccati equations. Mathematics of Computation, 1998, 67, 1089-1106.	1.1	61
5	On the Doubling Algorithm for a (Shifted) Nonsymmetric Algebraic Riccati Equation. SIAM Journal on Matrix Analysis and Applications, 2008, 29, 1083-1100.	0.7	59
6	Convergence Analysis of the Doubling Algorithm for Several Nonlinear Matrix Equations in the Critical Case. SIAM Journal on Matrix Analysis and Applications, 2009, 31, 227-247.	0.7	56
7	On a Newton-Like Method for Solving Algebraic Riccati Equations. SIAM Journal on Matrix Analysis and Applications, 2000, 21, 694-698.	0.7	43
8	Newton's Method for Discrete Algebraic Riccati Equations when the Closed-Loop Matrix Has Eigenvalues on the Unit Circle. SIAM Journal on Matrix Analysis and Applications, 1998, 20, 279-294.	0.7	38
9	A new class of nonsymmetric algebraic Riccati equations. Linear Algebra and Its Applications, 2007, 426, 636-649.	0.4	38
10	Efficient methods for solving a nonsymmetric algebraic Riccati equation arising in stochastic fluid models. Journal of Computational and Applied Mathematics, 2006, 192, 353-373.	1.1	34
11	A note on the minimal nonnegative solution of a nonsymmetric algebraic Riccati equation. Linear Algebra and Its Applications, 2002, 357, 299-302.	0.4	33
12	Algorithms for hyperbolic quadratic eigenvalue problems. Mathematics of Computation, 2005, 74, 1777-1792.	1.1	33
13	Convergence Analysis of the Latouche--Ramaswami Algorithm for Null Recurrent Quasi-Birth-Death Processes. SIAM Journal on Matrix Analysis and Applications, 2002, 23, 744-760.	0.7	30
14	Convergence Rate of an Iterative Method for a Nonlinear Matrix Equation. SIAM Journal on Matrix Analysis and Applications, 2001, 23, 295-302.	0.7	29
15	On Newtonâ€™s method and Halleyâ€™s method for the principal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:mi>p</mml:mi></mml:mrow></mml:math>th root of a matrix. Linear Algebra and Its Applications, 2010, 432, 1905-1922.	0.4	29
16	Numerical solution of a quadratic eigenvalue problem. Linear Algebra and Its Applications, 2004, 385, 391-406.	0.4	28
17	The Matrix Equation $X+A^TX^{-1}A=Q$ and Its Application in Nano Research. SIAM Journal of Scientific Computing, 2010, 32, 3020-3038.	1.3	25
18	Comments on a Shifted Cyclic Reduction Algorithm for Quasi-Birth-Death Problems. SIAM Journal on Matrix Analysis and Applications, 2003, 24, 1161-1166.	0.7	24

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19	An Improved Arc Algorithm for Detecting Definite Hermitian Pairs. SIAM Journal on Matrix Analysis and Applications, 2010, 31, 1131-1151.	0.7	24
20	Detecting and Solving Hyperbolic Quadratic Eigenvalue Problems. SIAM Journal on Matrix Analysis and Applications, 2009, 30, 1593-1613.	0.7	23
21	On the numerical solution of a nonlinear matrix equation in Markov chains. Linear Algebra and Its Applications, 1999, 288, 175-186.	0.4	22
22	Convergence rates of some iterative methods for nonsymmetric algebraic Riccati equations arising in transport theory. Linear Algebra and Its Applications, 2010, 432, 283-291.	0.4	22
23	Solving a Structured Quadratic Eigenvalue Problem by a Structure-Preserving Doubling Algorithm. SIAM Journal on Matrix Analysis and Applications, 2010, 31, 2784-2801.	0.7	22
24	A note on the fixed-point iteration for the matrix equations <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:mi>X</mml:mi><mml:mo>Â±</mml:mo><mml:msup><mml:mrow><mml:mi>A</mml:mi></mml:m Linear Algebra and Its Applications, 2008, 429, 2098-2112.	0.4	21
25	Complex symmetric stabilizing solution of the matrix equation X+AâŠ¤X-1A=Q. Linear Algebra and Its Applications, 2011, 435, 1187-1192.	0.4	19
26	On a Nonlinear Matrix Equation Arising in Nano Research. SIAM Journal on Matrix Analysis and Applications, 2012, 33, 235-262.	0.7	17
27	On algebraic Riccati equations associated with M -matrices. Linear Algebra and Its Applications, 2013, 439, 2800-2814.	0.4	17
28	Newtonâ€“Noda iteration for finding the Perron pair of a weakly irreducible nonnegative tensor. Numerische Mathematik, 2017, 137, 63-90.	0.9	16
29	Incomplete block factorization preconditioning for linear systems arising in the numerical solution of the Helmholtz equation. Applied Numerical Mathematics, 1996, 19, 495-508.	1.2	13
30	Convergence of the solution of a nonsymmetric matrix Riccati differential equation to its stable equilibrium solution. Journal of Mathematical Analysis and Applications, 2006, 318, 648-657.	0.5	13
31	A modified Newton iteration for finding nonnegative Z-eigenpairs of a nonnegative tensor. Numerical Algorithms, 2019, 80, 595-616.	1.1	11
32	Numerical solution of nonlinear matrix equations arising from Greenâ€™s function calculations in nano research. Journal of Computational and Applied Mathematics, 2012, 236, 4166-4180.	1.1	10
33	Monotone convergence of Newton-like methods for M-matrix algebraic Riccati equations. Numerical Algorithms, 2013, 64, 295-309.	1.1	8
34	Iterative Methods for a Linearly Perturbed Algebraic Matrix Riccati Equation Arising in Stochastic Control. Numerical Functional Analysis and Optimization, 2013, 34, 516-529.	0.6	8
35	On algebraic Riccati equations associated with regular singular M-matrices. Linear Algebra and Its Applications, 2016, 493, 108-119.	0.4	7
36	Incomplete block factorization preconditioning for indefinite elliptic problems. Numerische Mathematik, 1999, 83, 621-639.	0.9	2

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37	Monotonicity and positivity of coefficients of power series expansions associated with Newton and Halley methods for the matrix pth root. Linear Algebra and Its Applications, 2018, 556, 131-143.	0.4	2
38	Explicit convergence regions of Newton's method and Chebyshev's method for the matrix pth root. Linear Algebra and Its Applications, 2019, 583, 63-76.	0.4	1
39	A study of SchrÃ¶derâ€™s method for the matrix pth root using power series expansions. Numerical Algorithms, 2020, 83, 265-279.	1.1	1
40	Explicit<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e229" altimg="si202.svg"><mml:mi>p</mml:mi></mml:math>-dependent convergence regions of Newtonâ€™s method for the matrix<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e234" altimg="si202.svg"><mml:mi>p</mml:mi></mml:math>th root. Applied Mathematics Letters, 2021, 122, 107566.	1.5	1
41	A CONVERGENCE RESULT FOR MATRIX RICCATI DIFFERENTIAL EQUATIONS ASSOCIATED WITH M-MATRICES. Taiwanese Journal of Mathematics, 2015, 19, .	0.2	0