

# Chun-Hua Guo

## List of Publications by Year in descending order

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41  
papers

1,204  
citations

331259

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377514

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g-index

41  
all docs

41  
docs citations

41  
times ranked

307  
citing authors

#	ARTICLE	IF	CITATIONS
1	Explicit convergence regions of Newton's method for the matrix $p$ th root. Applied Mathematics Letters, 2021, 122, 107566.	1.5	1
2	A study of Schröder's method for the matrix $p$ th root using power series expansions. Numerical Algorithms, 2020, 83, 265-279.	1.1	1
3	Explicit convergence regions of Newton's method and Chebyshev's method for the matrix $p$ th root. Linear Algebra and Its Applications, 2019, 583, 63-76.	0.4	1
4	A modified Newton iteration for finding nonnegative Z-eigenpairs of a nonnegative tensor. Numerical Algorithms, 2019, 80, 595-616.	1.1	11
5	Monotonicity and positivity of coefficients of power series expansions associated with Newton and Halley methods for the matrix $p$ th root. Linear Algebra and Its Applications, 2018, 556, 131-143.	0.4	2
6	Newton's iteration for finding the Perron pair of a weakly irreducible nonnegative tensor. Numerische Mathematik, 2017, 137, 63-90.	0.9	16
7	On algebraic Riccati equations associated with regular singular M-matrices. Linear Algebra and Its Applications, 2016, 493, 108-119.	0.4	7
8	A CONVERGENCE RESULT FOR MATRIX RICCATI DIFFERENTIAL EQUATIONS ASSOCIATED WITH $M$ -MATRICES. Taiwanese Journal of Mathematics, 2015, 19, .	0.2	0
9	Monotone convergence of Newton-like methods for M-matrix algebraic Riccati equations. Numerical Algorithms, 2013, 64, 295-309.	1.1	8
10	On algebraic Riccati equations associated with M -matrices. Linear Algebra and Its Applications, 2013, 439, 2800-2814.	0.4	17
11	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
12	On a Nonlinear Matrix Equation Arising in Nano Research. SIAM Journal on Matrix Analysis and Applications, 2012, 33, 235-262.	0.7	17
13	Numerical solution of nonlinear matrix equations arising from Green's function calculations in nano research. Journal of Computational and Applied Mathematics, 2012, 236, 4166-4180.	1.1	10
14	Complex symmetric stabilizing solution of the matrix equation $X+A^{\tilde{S}}X-1A=Q$ . Linear Algebra and Its Applications, 2011, 435, 1187-1192.	0.4	19
15	On Newton's method and Halley's method for the principal $p$ th root of a matrix. Linear Algebra and Its Applications, 2010, 432, 1905-1922.	0.4	29
16	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
17	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
18	The Matrix Equation $X+A^{\tilde{S}}X^{-1}A=Q$ and Its Application in Nano Research. SIAM Journal of Scientific Computing, 2010, 32, 3020-3038.	1.3	25

#	ARTICLE	IF	CITATIONS
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	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
21	Detecting and Solving Hyperbolic Quadratic Eigenvalue Problems. SIAM Journal on Matrix Analysis and Applications, 2009, 30, 1593-1613.	0.7	23
22	A note on the fixed-point iteration for the matrix equations $X \pm A^k X^{-1} A^k = C$ . Linear Algebra and Its Applications, 2008, 429, 2098-2112.	0.4	21
23	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
24	A new class of nonsymmetric algebraic Riccati equations. Linear Algebra and Its Applications, 2007, 426, 636-649.	0.4	38
25	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
26	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
27	Algorithms for hyperbolic quadratic eigenvalue problems. Mathematics of Computation, 2005, 74, 1777-1792.	1.1	33
28	Numerical solution of a quadratic eigenvalue problem. Linear Algebra and Its Applications, 2004, 385, 391-406.	0.4	28
29	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
30	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
31	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
32	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
33	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
34	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
35	On a Newton-Like Method for Solving Algebraic Riccati Equations. SIAM Journal on Matrix Analysis and Applications, 2000, 21, 694-698.	0.7	43
36	Iterative solution of two matrix equations. Mathematics of Computation, 1999, 68, 1589-1604.	1.1	132

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37	On the numerical solution of a nonlinear matrix equation in Markov chains. <i>Linear Algebra and Its Applications</i> , 1999, 288, 175-186.	0.4	22
38	Incomplete block factorization preconditioning for indefinite elliptic problems. <i>Numerische Mathematik</i> , 1999, 83, 621-639.	0.9	2
39	Newton's Method for Discrete Algebraic Riccati Equations when the Closed-Loop Matrix Has Eigenvalues on the Unit Circle. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1998, 20, 279-294.	0.7	38
40	Analysis and modification of Newton's method for algebraic Riccati equations. <i>Mathematics of Computation</i> , 1998, 67, 1089-1106.	1.1	61
41	Incomplete block factorization preconditioning for linear systems arising in the numerical solution of the Helmholtz equation. <i>Applied Numerical Mathematics</i> , 1996, 19, 495-508.	1.2	13