

# Chun-Hua Guo

## List of Publications by Year in descending order

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41  
papers

1,204  
citations

331670

21  
h-index

377865

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. <i>Mathematics of Computation</i> , 1999, 68, 1589-1604.	2.1	132
2	Nonsymmetric Algebraic Riccati Equations and Wiener–Hopf Factorization for M-Matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2001, 23, 225-242.	1.4	122
3	On the Iterative Solution of a Class of Nonsymmetric Algebraic Riccati Equations. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2000, 22, 376-391.	1.4	110
4	Analysis and modification of Newton's method for algebraic Riccati equations. <i>Mathematics of Computation</i> , 1998, 67, 1089-1106.	2.1	61
5	On the Doubling Algorithm for a (Shifted) Nonsymmetric Algebraic Riccati Equation. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2008, 29, 1083-1100.	1.4	59
6	Convergence Analysis of the Doubling Algorithm for Several Nonlinear Matrix Equations in the Critical Case. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2009, 31, 227-247.	1.4	56
7	On a Newton-Like Method for Solving Algebraic Riccati Equations. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2000, 21, 694-698.	1.4	43
8	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.	1.4	38
9	A new class of nonsymmetric algebraic Riccati equations. <i>Linear Algebra and Its Applications</i> , 2007, 426, 636-649.	0.9	38
10	Efficient methods for solving a nonsymmetric algebraic Riccati equation arising in stochastic fluid models. <i>Journal of Computational and Applied Mathematics</i> , 2006, 192, 353-373.	2.0	34
11	A note on the minimal nonnegative solution of a nonsymmetric algebraic Riccati equation. <i>Linear Algebra and Its Applications</i> , 2002, 357, 299-302.	0.9	33
12	Algorithms for hyperbolic quadratic eigenvalue problems. <i>Mathematics of Computation</i> , 2005, 74, 1777-1792.	2.1	33
13	Convergence Analysis of the Latouche–Ramaswami Algorithm for Null Recurrent Quasi-Birth-Death Processes. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2002, 23, 744-760.	1.4	30
14	Convergence Rate of an Iterative Method for a Nonlinear Matrix Equation. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2001, 23, 295-302.	1.4	29
15	On Newton's method and Halley's method for the principal $\sqrt[n]{A}$ root of a matrix. <i>Linear Algebra and Its Applications</i> , 2010, 432, 1905-1922.	0.9	29
16	Numerical solution of a quadratic eigenvalue problem. <i>Linear Algebra and Its Applications</i> , 2004, 385, 391-406.	0.9	28
17	The Matrix Equation $X+A^T X^{-1} A=Q$ and Its Application in Nano Research. <i>SIAM Journal of Scientific Computing</i> , 2010, 32, 3020-3038.	2.8	25
18	Comments on a Shifted Cyclic Reduction Algorithm for Quasi-Birth-Death Problems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2003, 24, 1161-1166.	1.4	24

#	ARTICLE	IF	CITATIONS
19	An Improved Arc Algorithm for Detecting Definite Hermitian Pairs. SIAM Journal on Matrix Analysis and Applications, 2010, 31, 1131-1151.	1.4	24
20	Detecting and Solving Hyperbolic Quadratic Eigenvalue Problems. SIAM Journal on Matrix Analysis and Applications, 2009, 30, 1593-1613.	1.4	23
21	On the numerical solution of a nonlinear matrix equation in Markov chains. Linear Algebra and Its Applications, 1999, 288, 175-186.	0.9	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.	0.9	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.	1.4	22
24	A note on the fixed-point iteration for the matrix equations $X + A\tilde{X}^{-1}A^T = Q$ . Linear Algebra and Its Applications, 2008, 429, 2098-2112.	0.9	21
25	Complex symmetric stabilizing solution of the matrix equation $X + A\tilde{X}^{-1}A^T = Q$ . Linear Algebra and Its Applications, 2011, 435, 1187-1192.	0.9	19
26	On a Nonlinear Matrix Equation Arising in Nano Research. SIAM Journal on Matrix Analysis and Applications, 2012, 33, 235-262.	1.4	17
27	On algebraic Riccati equations associated with M -matrices. Linear Algebra and Its Applications, 2013, 439, 2800-2814.	0.9	17
28	Newton's iteration for finding the Perron pair of a weakly irreducible nonnegative tensor. Numerische Mathematik, 2017, 137, 63-90.	1.9	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.	2.1	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.	1.0	13
31	A modified Newton iteration for finding nonnegative Z-eigenpairs of a nonnegative tensor. Numerical Algorithms, 2019, 80, 595-616.	1.9	11
32	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.	2.0	10
33	Monotone convergence of Newton-like methods for M-matrix algebraic Riccati equations. Numerical Algorithms, 2013, 64, 295-309.	1.9	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.	1.4	8
35	On algebraic Riccati equations associated with regular singular M-matrices. Linear Algebra and Its Applications, 2016, 493, 108-119.	0.9	7
36	Incomplete block factorization preconditioning for indefinite elliptic problems. Numerische Mathematik, 1999, 83, 621-639.	1.9	2

#	ARTICLE	IF	CITATIONS
37	Monotonicity and positivity of coefficients of power series expansions associated with Newton and Halley methods for the matrix $p$ th root. <i>Linear Algebra and Its Applications</i> , 2018, 556, 131-143.	0.9	2
38	Explicit convergence regions of Newton's method and Chebyshev's method for the matrix $p$ th root. <i>Linear Algebra and Its Applications</i> , 2019, 583, 63-76.	0.9	1
39	A study of Schröder's method for the matrix $p$ th root using power series expansions. <i>Numerical Algorithms</i> , 2020, 83, 265-279.	1.9	1
40	Explicit $p$ -dependent convergence regions of Newton's method for the matrix $p$ th root. <i>Applied Mathematics Letters</i> , 2021, 122, 107566.	2.7	1
41	A CONVERGENCE RESULT FOR MATRIX RICCATI DIFFERENTIAL EQUATIONS ASSOCIATED WITH $M$ -MATRICES. <i>Taiwanese Journal of Mathematics</i> , 2015, 19, .	0.4	0