

Xiao-Qing Jin

List of Publications by Year in descending order

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68
papers

1,108
citations

516561

16
h-index

501076

28
g-index

69
all docs

69
docs citations

69
times ranked

475
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | The Riemannian two-step perturbed Gauss-Newton method for least squares inverse eigenvalue problems. <i>Journal of Computational and Applied Mathematics</i> , 2022, 405, 113971. | 1.1 | 0 |
| 2 | A Riemannian derivative-free Polak-Ribière-Polyak method for tangent vector field. <i>Numerical Algorithms</i> , 2021, 86, 325-355. | 1.1 | 5 |
| 3 | Crank-Nicolson-weighted-shifted-Grünwald-difference schemes for space Riesz variable-order fractional diffusion equations. <i>Numerical Algorithms</i> , 2021, 87, 601-631. | 1.1 | 7 |
| 4 | An optimal preconditioner for tensor equations involving Einstein product. <i>Linear and Multilinear Algebra</i> , 2020, 68, 886-902. | 0.5 | 11 |
| 5 | A geometric Gauss-Newton method for least squares inverse eigenvalue problems. <i>BIT Numerical Mathematics</i> , 2020, 60, 825-852. | 1.0 | 4 |
| 6 | Riemannian inexact Newton method for structured inverse eigenvalue and singular value problems. <i>BIT Numerical Mathematics</i> , 2019, 59, 675-694. | 1.0 | 3 |
| 7 | Tensor Methods for Solving Symmetric M -tensor Systems. <i>Journal of Scientific Computing</i> , 2018, 74, 412-425. | 1.1 | 56 |
| 8 | Some norm inequalities for commutators of contracted tensor products. <i>Linear Algebra and Its Applications</i> , 2018, 540, 244-256. | 0.4 | 1 |
| 9 | A Riemannian inexact Newton-CG method for constructing a nonnegative matrix with prescribed realizable spectrum. <i>Numerische Mathematik</i> , 2018, 140, 827-855. | 0.9 | 10 |
| 10 | A fast algorithm for solving circulant tensor systems. <i>Linear and Multilinear Algebra</i> , 2017, 65, 1894-1904. | 0.5 | 13 |
| 11 | A Convergence Analysis of the MINRES Method for Some Hermitian Indefinite Systems. <i>East Asian Journal on Applied Mathematics</i> , 2017, 7, 827-836. | 0.4 | 1 |
| 12 | A Geometric Nonlinear Conjugate Gradient Method for Stochastic Inverse Eigenvalue Problems. <i>SIAM Journal on Numerical Analysis</i> , 2016, 54, 2015-2035. | 1.1 | 22 |
| 13 | Preconditioned iterative methods for space-time fractional advection-diffusion equations. <i>Journal of Computational Physics</i> , 2016, 319, 266-279. | 1.9 | 24 |
| 14 | Newton-type methods for inverse singular value problems with multiple singular values. <i>Applied Numerical Mathematics</i> , 2016, 109, 138-156. | 1.2 | 6 |
| 15 | Preconditioned Iterative Methods for Two-Dimensional Space-Fractional Diffusion Equations. <i>Communications in Computational Physics</i> , 2015, 18, 469-488. | 0.7 | 45 |
| 16 | Superoptimal Preconditioners for Functions of Matrices. <i>Numerical Mathematics</i> , 2015, 8, 515-529. | 0.6 | 2 |
| 17 | Backward Error Analysis for Eigenproblems Involving Conjugate Symplectic Matrices. <i>East Asian Journal on Applied Mathematics</i> , 2015, 5, 312-326. | 0.4 | 1 |
| 18 | A Riemannian Newton Algorithm for Nonlinear Eigenvalue Problems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2015, 36, 752-774. | 0.7 | 34 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | A survey on the Böttcher-Wenzel conjecture and related problems. <i>Operators and Matrices</i> , 2015, , 659-673. | 0.1 | 7 |
| 20 | Preconditioned iterative methods for fractional diffusion equation. <i>Journal of Computational Physics</i> , 2014, 256, 109-117. | 1.9 | 93 |
| 21 | Optimal preconditioners for functions of matrices. <i>Linear Algebra and Its Applications</i> , 2014, 457, 224-243. | 0.4 | 3 |
| 22 | The Mediating Morphism of the Multilinear Optimal Map. <i>East Asian Journal on Applied Mathematics</i> , 2014, 4, 82-87. | 0.4 | 0 |
| 23 | Sinc Nyström Method for Singularly Perturbed Love's Integral Equation. <i>East Asian Journal on Applied Mathematics</i> , 2013, 3, 48-58. | 0.4 | 4 |
| 24 | Numerical Solutions of Coupled Nonlinear Schrödinger Equations by Orthogonal Spline Collocation Method. <i>Communications in Computational Physics</i> , 2012, 12, 1392-1416. | 0.7 | 9 |
| 25 | A High-Order Difference Scheme for the Generalized Cattaneo Equation. <i>East Asian Journal on Applied Mathematics</i> , 2012, 2, 170-184. | 0.4 | 27 |
| 26 | On some inverse singular value problems with Toeplitz-related structure. <i>Numerical Algebra, Control and Optimization</i> , 2012, 2, 187-192. | 1.0 | 7 |
| 27 | An Ulm-like Method for Inverse Singular Value Problems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2011, 32, 412-429. | 0.7 | 17 |
| 28 | Tri-Diagonal Preconditioner for Toeplitz Systems from Finance. <i>East Asian Journal on Applied Mathematics</i> , 2011, 1, 82-88. | 0.4 | 1 |
| 29 | The generalized superoptimal preconditioner. <i>Linear Algebra and Its Applications</i> , 2010, 432, 203-217. | 0.4 | 2 |
| 30 | Some Relationships between Optimal Preconditioner and Superoptimal Preconditioner. , 2010, , 266-272. | | 0 |
| 31 | Block preconditioners with circulant blocks for general linear systems. <i>Computers and Mathematics With Applications</i> , 2009, 58, 1309-1319. | 1.4 | 1 |
| 32 | A survey and some extensions of T. Chan's preconditioner. <i>Linear Algebra and Its Applications</i> , 2008, 428, 403-412. | 0.4 | 11 |
| 33 | Convergence analysis of superoptimal PCG algorithm for Toeplitz systems with a Fisher-Hartwig singularity. <i>Linear Algebra and Its Applications</i> , 2008, 428, 535-549. | 0.4 | 0 |
| 34 | Proof of Böttcher and Wenzel's Conjecture. <i>Operators and Matrices</i> , 2008, , 435-442. | 0.1 | 31 |
| 35 | A short note on singular values of optimal and superoptimal preconditioned matrices. <i>International Journal of Computer Mathematics</i> , 2007, 84, 1261-1263. | 1.0 | 4 |
| 36 | A note on spectra of optimal and superoptimal preconditioned matrices. <i>Linear Algebra and Its Applications</i> , 2007, 422, 482-485. | 0.4 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Stability properties of superoptimal preconditioner from numerical range. Numerical Linear Algebra With Applications, 2006, 13, 513-521. | 0.9 | 5 |
| 38 | Some stability properties of T. Chan's preconditioner. Linear Algebra and Its Applications, 2005, 395, 361-365. | 0.4 | 4 |
| 39 | A generalization of T. Chan's preconditioner. Linear Algebra and Its Applications, 2005, 407, 11-18. | 0.4 | 5 |
| 40 | BCCB preconditioners for solving linear systems from delay differential equations. Computers and Mathematics With Applications, 2005, 50, 281-288. | 1.4 | 4 |
| 41 | A note on preconditioning for minimum-norm <small>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:tbl_struct="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.</small> | 1.5 | 4 |
| 42 | Circulant preconditioners for solving singular perturbation delay differential equations. Numerical Linear Algebra With Applications, 2005, 12, 327-336. | 0.9 | 7 |
| 43 | Circulant preconditioners for solving differential equations with multidelays. Computers and Mathematics With Applications, 2004, 47, 1429-1436. | 1.4 | 15 |
| 44 | BCCB preconditioners for systems of BVM-based numerical integrators. Numerical Linear Algebra With Applications, 2004, 11, 25-40. | 0.9 | 5 |
| 45 | A note on T. Chan's preconditioner. Linear Algebra and Its Applications, 2004, 376, 283-290. | 0.4 | 7 |
| 46 | Circulant preconditioned WR-BVM methods for ODE systems. Journal of Computational and Applied Mathematics, 2004, 162, 201-211. | 1.1 | 3 |
| 47 | Strang-type preconditioners for solving linear systems from neutral delay differential equations. Calcolo, 2003, 40, 21-31. | 0.6 | 6 |
| 48 | Sine transform based preconditioners for solving constant-coefficient first-order PDEs. Linear Algebra and Its Applications, 2003, 366, 283-294. | 0.4 | 1 |
| 49 | Circulant-block preconditioners for solving ordinary differential equations. Applied Mathematics and Computation, 2003, 140, 409-418. | 1.4 | 5 |
| 50 | Recursive-Based PCG Methods for Toeplitz Systems with Nonnegative Generating Functions. SIAM Journal of Scientific Computing, 2003, 24, 1507-1529. | 1.3 | 13 |
| 51 | A Stability Property of T. Chan's Preconditioner. SIAM Journal on Matrix Analysis and Applications, 2003, 25, 627-629. | 0.7 | 6 |
| 52 | A note on the fast algorithm for block Toeplitz systems with tensor structure. Applied Mathematics and Computation, 2002, 126, 187-197. | 1.4 | 3 |
| 53 | Perturbation bounds for constrained and weighted least squares problems. Linear Algebra and Its Applications, 2002, 349, 221-232. | 0.4 | 43 |
| 54 | Convergence of the Multigrid Method of Ill-conditioned Block Toeplitz Systems. BIT Numerical Mathematics, 2001, 41, 179-190. | 1.0 | 25 |

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|----|---|-----|-----------|
| 55 | Addendum to "A note on construction of circulant preconditioners from kernels". Applied Mathematics and Computation, 1998, 95, 91-99. | 1.4 | 0 |
| 56 | A note on construction of circulant preconditioners from kernels. Applied Mathematics and Computation, 1997, 83, 3-12. | 1.4 | 3 |
| 57 | Band Toeplitz preconditioners for block Toeplitz systems. Journal of Computational and Applied Mathematics, 1996, 70, 225-230. | 1.1 | 10 |
| 58 | A preconditioner for constrained and weighted least squares problems with Toeplitz structure. BIT Numerical Mathematics, 1996, 36, 101-109. | 1.0 | 9 |
| 59 | Fast iterative solvers for symmetric Toeplitz systems " A survey and an extension. Journal of Computational and Applied Mathematics, 1996, 66, 315-321. | 1.1 | 11 |
| 60 | A fast algorithm for block Toeplitz systems with tensor structure. Applied Mathematics and Computation, 1995, 73, 115-124. | 1.4 | 2 |
| 61 | A Note on Preconditioned Block Toeplitz Matrices. SIAM Journal of Scientific Computing, 1995, 16, 951-955. | 1.3 | 17 |
| 62 | A Family of Block Preconditioners for Block Systems. SIAM Journal on Scientific and Statistical Computing, 1992, 13, 1218-1235. | 1.5 | 91 |
| 63 | Circulant preconditioners for second order hyperbolic equations. BIT Numerical Mathematics, 1992, 32, 650-664. | 1.0 | 9 |
| 64 | The circulant operator in the banach algebra of matrices. Linear Algebra and Its Applications, 1991, 149, 41-53. | 0.4 | 76 |
| 65 | Circulant and skew-circulant preconditioners for skew-hermitian type Toeplitz systems. BIT Numerical Mathematics, 1991, 31, 632-646. | 1.0 | 25 |
| 66 | The Spectra of Super-Optimal Circulant Preconditioned Toeplitz Systems. SIAM Journal on Numerical Analysis, 1991, 28, 871-879. | 1.1 | 25 |
| 67 | Singular extremal control problem with time delay. International Journal of Control, 1988, 47, 1795-1810. | 1.2 | 0 |
| 68 | A Riemannian under-determined BFGS method for least squares inverse eigenvalue problems. BIT Numerical Mathematics, 0, , 1. | 1.0 | 0 |