

Ren-Cang Li

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79
papers

992
citations

16
h-index

27
g-index

80
ext. papers

1,119
ext. citations

1.9
avg, IF

4.81
L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 79 | On the ADI method for Sylvester equations. <i>Journal of Computational and Applied Mathematics</i> , 2009 , 233, 1035-1045 | 2.4 | 94 |
| 78 | Relative Perturbation Theory: II. Eigenspace and Singular Subspace Variations. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1998 , 20, 471-492 | 1.5 | 81 |
| 77 | Relative Perturbation Theory: I. Eigenvalue and Singular Value Variations. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1998 , 19, 956-982 | 1.5 | 71 |
| 76 | New Perturbation Bounds for the Unitary Polar Factor. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1995 , 16, 327-332 | 1.5 | 41 |
| 75 | Minimization Principles for the Linear Response Eigenvalue Problem I: Theory. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2012 , 33, 1075-1100 | 1.5 | 37 |
| 74 | A note on eigenvalues of perturbed Hermitian matrices. <i>Linear Algebra and Its Applications</i> , 2005 , 395, 183-190 | 0.9 | 37 |
| 73 | Alternating-directional Doubling Algorithm for M-Matrix Algebraic Riccati Equations. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2012 , 33, 170-194 | 1.5 | 34 |
| 72 | Minimization Principles for the Linear Response Eigenvalue Problem II: Computation. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2013 , 34, 392-416 | 1.5 | 34 |
| 71 | Structure-Preserving Model Reduction Using a Krylov Subspace Projection Formulation. <i>Communications in Mathematical Sciences</i> , 2005 , 3, 179-199 | 1 | 28 |
| 70 | Accurate solutions of M-matrix algebraic Riccati equations. <i>Numerische Mathematik</i> , 2012 , 120, 671-700 | 2.2 | 26 |
| 69 | Convergence of the block Lanczos method for eigenvalue clusters. <i>Numerische Mathematik</i> , 2015 , 131, 83-113 | 2.2 | 23 |
| 68 | Bounding the spectrum of large Hermitian matrices. <i>Linear Algebra and Its Applications</i> , 2011 , 435, 480-493 | 0.9 | 23 |
| 67 | On an Eigenvector-Dependent Nonlinear Eigenvalue Problem. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2018 , 39, 1360-1382 | 1.5 | 23 |
| 66 | Solving Secular Equations Stably and Efficiently 1993 , | | 19 |
| 65 | On perturbations of matrix pencils with real spectra, {a revisit}. <i>Mathematics of Computation</i> , 2002 , 72, 715-729 | 1.6 | 18 |
| 64 | Norms of certain matrices with applications to variations of the spectra of matrices and matrix pencils. <i>Linear Algebra and Its Applications</i> , 1993 , 182, 199-234 | 0.9 | 18 |
| 63 | Perturbation of Partitioned Hermitian Definite Generalized Eigenvalue Problems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2011 , 32, 642-663 | 1.5 | 15 |

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| 62 | A sharp version of Kahan's theorem on clustered eigenvalues. <i>Linear Algebra and Its Applications</i> , 1996 , 245, 147-155 | 0.9 | 15 |
| 61 | Convergence analysis of Lanczos-type methods for the linear response eigenvalue problem. <i>Journal of Computational and Applied Mathematics</i> , 2013 , 247, 17-33 | 2.4 | 14 |
| 60 | Accurate solutions of M-matrix Sylvester equations. <i>Numerische Mathematik</i> , 2012 , 120, 639-670 | 2.2 | 14 |
| 59 | A block variational procedure for the iterative diagonalization of non-Hermitian random-phase approximation matrices. <i>Journal of Chemical Physics</i> , 2012 , 136, 034111 | 3.9 | 14 |
| 58 | Krylov type subspace methods for matrix polynomials. <i>Linear Algebra and Its Applications</i> , 2006 , 415, 52-81 | 0.9 | 14 |
| 57 | Trace minimization principles for positive semi-definite pencils. <i>Linear Algebra and Its Applications</i> , 2013 , 438, 3085-3106 | 0.9 | 13 |
| 56 | A perturbation bound for definite pencils. <i>Linear Algebra and Its Applications</i> , 1993 , 179, 191-202 | 0.9 | 13 |
| 55 | On the Generalized Lanczos Trust-Region Method. <i>SIAM Journal on Optimization</i> , 2017 , 27, 2110-2142 | 2 | 12 |
| 54 | Rayleigh Quotient Based Optimization Methods for Eigenvalue Problems. <i>Series in Contemporary Applied Mathematics</i> , 2015 , 76-108 | 0 | 12 |
| 53 | On perturbations of matrix pencils with real spectra. II. <i>Mathematics of Computation</i> , 1996 , 65, 637-646 | 1.6 | 12 |
| 52 | Minimization principles and computation for the generalized linear response eigenvalue problem. <i>BIT Numerical Mathematics</i> , 2014 , 54, 31-54 | 1.7 | 11 |
| 51 | Stable solutions of linear systems involving long chain of matrix multiplications. <i>Linear Algebra and Its Applications</i> , 2011 , 435, 659-673 | 0.9 | 10 |
| 50 | On Meinardus' examples for the conjugate gradient method. <i>Mathematics of Computation</i> , 2008 , 77, 335-352 | 1.6 | 10 |
| 49 | Structured backward error for palindromic polynomial eigenvalue problems. <i>Numerische Mathematik</i> , 2010 , 116, 95-122 | 2.2 | 9 |
| 48 | Accuracy of Computed Eigenvectors Via Optimizing a Rayleigh Quotient. <i>BIT Numerical Mathematics</i> , 2004 , 44, 585-593 | 1.7 | 9 |
| 47 | Highly accurate doubling algorithms for M-matrix algebraic Riccati equations. <i>Numerische Mathematik</i> , 2017 , 135, 733-767 | 2.2 | 8 |
| 46 | Orthogonal canonical correlation analysis and applications. <i>Optimization Methods and Software</i> , 2020 , 35, 787-807 | 1.3 | 8 |
| 45 | A Krylov Subspace Method for Large-Scale Second-Order Cone Linear Complementarity Problem. <i>SIAM Journal of Scientific Computing</i> , 2015 , 37, A2046-A2075 | 2.6 | 8 |

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| 44 | Sharpness in rates of convergence for the symmetric Lanczos method. <i>Mathematics of Computation</i> , 2010 , 79, 419-419 | 1.6 | 8 |
| 43 | Analysis of the solution of the Sylvester equation using low-rank ADI with exact shifts. <i>Systems and Control Letters</i> , 2010 , 59, 248-257 | 2.4 | 8 |
| 42 | A block Chebyshev-Davidson method for linear response eigenvalue problems. <i>Advances in Computational Mathematics</i> , 2016 , 42, 1103-1128 | 1.6 | 7 |
| 41 | Rayleigh--Ritz Approximation For the Linear Response Eigenvalue Problem. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2014 , 35, 765-782 | 1.5 | 7 |
| 40 | Analysis of an alignment algorithm for nonlinear dimensionality reduction. <i>BIT Numerical Mathematics</i> , 2007 , 47, 873-885 | 1.7 | 7 |
| 39 | Pinchings and Norms of Scaled Triangular Matrices. <i>Linear and Multilinear Algebra</i> , 2002 , 50, 15-21 | 0.7 | 7 |
| 38 | Probabilistic Structure Learning for EEG/MEG Source Imaging With Hierarchical Graph Priors. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 321-334 | 11.7 | 7 |
| 37 | Cluster-robust accuracy bounds for Ritz subspaces. <i>Linear Algebra and Its Applications</i> , 2015 , 480, 11-26 | 0.9 | 6 |
| 36 | Backward perturbation analysis and residual-based error bounds for the linear response eigenvalue problem. <i>BIT Numerical Mathematics</i> , 2015 , 55, 869-896 | 1.7 | 6 |
| 35 | The rate of convergence of GMRES on a tridiagonal Toeplitz linear system. <i>Numerische Mathematik</i> , 2009 , 112, 267-293 | 2.2 | 6 |
| 34 | Vandermonde matrices with Chebyshev nodes. <i>Linear Algebra and Its Applications</i> , 2008 , 428, 1803-1832 | 0.9 | 6 |
| 33 | Structure-Preserving Doubling Algorithms for Nonlinear Matrix Equations 2018 , | | 6 |
| 32 | A symmetric structure-preserving QR algorithm for linear response eigenvalue problems. <i>Linear Algebra and Its Applications</i> , 2017 , 520, 191-214 | 0.9 | 5 |
| 31 | A new look at the doubling algorithm for a structured palindromic quadratic eigenvalue problem. <i>Numerical Linear Algebra With Applications</i> , 2015 , 22, 393-409 | 1.6 | 5 |
| 30 | Highly accurate doubling algorithm for quadratic matrix equation from quasi-birth-and-death process. <i>Linear Algebra and Its Applications</i> , 2019 , 583, 1-45 | 0.9 | 5 |
| 29 | Extensions of Wielandt's minmax principles for positive semi-definite pencils. <i>Linear and Multilinear Algebra</i> , 2014 , 62, 1032-1048 | 0.7 | 5 |
| 28 | Convergence of CG and GMRES on a tridiagonal Toeplitz linear system. <i>BIT Numerical Mathematics</i> , 2007 , 47, 577-599 | 1.7 | 5 |
| 27 | On the variation of the spectra of matrix pencils. <i>Linear Algebra and Its Applications</i> , 1990 , 139, 147-164 | 0.9 | 5 |

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| 26 | An Efficient Numerical Method for the Symmetric Positive Definite Second-Order Cone Linear Complementarity Problem. <i>Journal of Scientific Computing</i> , 2019 , 79, 1608-1629 | 2.3 | 4 |
| 25 | Locally optimal and heavy ball GMRES methods. <i>Japan Journal of Industrial and Applied Mathematics</i> , 2016 , 33, 471-499 | 0.6 | 4 |
| 24 | THE HYPERBOLIC QUADRATIC EIGENVALUE PROBLEM. <i>Forum of Mathematics, Sigma</i> , 2015 , 3, | 1.4 | 4 |
| 23 | The rate of convergence of GMRES on a tridiagonal toeplitz linear system. II. <i>Linear Algebra and Its Applications</i> , 2009 , 431, 2425-2436 | 0.9 | 4 |
| 22 | A Self-consistent-field Iteration for Orthogonal CCA. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020 , PP, | 13.3 | 4 |
| 21 | A new two-phase structure-preserving doubling algorithm for critically singular M-matrix algebraic Riccati equations. <i>Numerical Linear Algebra With Applications</i> , 2016 , 23, 291-313 | 1.6 | 4 |
| 20 | Monotonicity of unitarily invariant norms. <i>Linear Algebra and Its Applications</i> , 2015 , 466, 254-266 | 0.9 | 3 |
| 19 | A Fast Algorithm For Fast Train Palindromic Quadratic Eigenvalue Problems. <i>SIAM Journal of Scientific Computing</i> , 2016 , 38, A3410-A3429 | 2.6 | 3 |
| 18 | Perturbation of multiple eigenvalues of Hermitian matrices. <i>Linear Algebra and Its Applications</i> , 2012 , 437, 202-213 | 0.9 | 3 |
| 17 | Simultaneous Similarity Reductions for a Pair of Matrices to Condensed Forms. <i>Communications in Mathematics and Statistics</i> , 2014 , 2, 139-153 | 0.5 | 3 |
| 16 | Eigenvalues of symmetrizable matrices. <i>BIT Numerical Mathematics</i> , 1998 , 38, 1-11 | 1.7 | 3 |
| 15 | A Nonlinear QR Algorithm for Banded Nonlinear Eigenvalue Problems. <i>ACM Transactions on Mathematical Software</i> , 2016 , 43, 1-19 | 2.3 | 3 |
| 14 | Accurate Numerical Solution for Shifted M-Matrix Algebraic Riccati Equations. <i>Journal of Scientific Computing</i> , 2020 , 84, 1 | 2.3 | 2 |
| 13 | Self-Corrective Iterations (SCI) for generalized diagonally dominant matrices. <i>Journal of Computational and Applied Mathematics</i> , 2016 , 302, 285-300 | 2.4 | 2 |
| 12 | Error bounds for approximate deflating subspaces for linear response eigenvalue problems. <i>Linear Algebra and Its Applications</i> , 2017 , 528, 273-289 | 0.9 | 2 |
| 11 | Accurate numerical solution for structured M-matrix algebraic Riccati equations. <i>Journal of Computational and Applied Mathematics</i> , 2021 , 396, 113614 | 2.4 | 2 |
| 10 | Deflating irreducible singular M-matrix algebraic Riccati equations. <i>Numerical Algebra, Control and Optimization</i> , 2013 , 3, 491-518 | 1.7 | 1 |
| 9 | Perturbation theory for Hermitian quadratic eigenvalue problem \mathbb{D} -damped and simultaneously diagonalizable systems. <i>Applied Mathematics and Computation</i> , 2020 , 371, 124921 | 2.7 | 1 |

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| 8 | . <i>IEEE Transactions on Big Data</i> , 2020 , 1-1 | 3.2 | 1 |
| 7 | Sharp Estimation of Convergence Rate for Self-Consistent Field Iteration to Solve Eigenvector-Dependent Nonlinear Eigenvalue Problems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2022 , 43, 301-327 | 1.5 | 0 |
| 6 | A self-consistent-field iteration for MAXBET with an application to multi-view feature extraction. <i>Advances in Computational Mathematics</i> , 2022 , 48, 1 | 1.6 | 0 |
| 5 | Perturbation analysis for matrix joint block diagonalization. <i>Linear Algebra and Its Applications</i> , 2019 , 581, 163-197 | 0.9 | |
| 4 | Recent Progress in Linear Response Eigenvalue Problems. <i>Lecture Notes in Computational Science and Engineering</i> , 2017 , 287-304 | 0.3 | |
| 3 | Structured backward error for palindromic polynomial eigenvalue problems, II: Approximate eigentriplets. <i>Frontiers of Mathematics in China</i> , 2018 , 13, 1397-1426 | 0.8 | |
| 2 | On an eigenvector-dependent nonlinear eigenvalue problem from the perspective of relative perturbation theory. <i>Journal of Computational and Applied Mathematics</i> , 2021 , 395, 113596 | 2.4 | |
| 1 | A least squares approach for saddle point problems. <i>Japan Journal of Industrial and Applied Mathematics</i> , 1 | 0.6 | |