Zhongxiao Jia

List of Publications by Year in descending order

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ΖΗΟΝΟΧΙΛΟ ΙΙΛ

#	Article	IF	CITATIONS
1	Theoretical and Computable Optimal Subspace Expansions for Matrix Eigenvalue Problems. SIAM Journal on Matrix Analysis and Applications, 2022, 43, 584-604.	1.4	0
2	On choices of formulations of computing the generalized singular value decomposition of a large matrix pair. Numerical Algorithms, 2021, 87, 689-718.	1.9	5
3	The Convergence of the Generalized Lanczos Trust-Region Method for the Trust-Region Subproblem. SIAM Journal on Optimization, 2021, 31, 887-914.	2.0	3
4	The joint bidiagonalization process with partial reorthogonalization. Numerical Algorithms, 2021, 88, 965-992.	1.9	5
5	A joint bidiagonalization based iterative algorithm for large scale general-form Tikhonov regularization. Applied Numerical Mathematics, 2020, 157, 159-177.	2.1	8
6	Regularization properties of LSQR for linear discrete ill-posed problems in the multiple singular value case and best, near best and general low rank approximations. Inverse Problems, 2020, 36, 085009.	2.0	3
7	Regularization properties of Krylov iterative solvers CGME and LSMR for linear discrete ill-posed problems with an application to truncated randomized SVDs. Numerical Algorithms, 2020, 85, 1281-1310.	1.9	6
8	Approximation accuracy of the Krylov subspaces for linear discrete ill-posed problems. Journal of Computational and Applied Mathematics, 2020, 374, 112786.	2.0	5
9	The low rank approximations and Ritz values in LSQR for linear discrete ill-posed problem. Inverse Problems, 2020, 36, 045013.	2.0	4
10	On Inner Iterations of JacobiDavidson Type Methods for Large SVD Computations. SIAM Journal of Scientific Computing, 2019, 41, A1574-A1603.	2.8	4
11	A transformation approach that makes SPAI, PSAI and RSAI procedures efficient for large double irregular nonsymmetric sparse linear systems. Journal of Computational and Applied Mathematics, 2019, 348, 200-213.	2.0	1
12	Modified truncated randomized singular value decomposition (MTRSVD) algorithms for large scale discrete ill-posed problems with general-form regularization. Inverse Problems, 2018, 34, 055013.	2.0	7
13	Some results on the regularization of LSQR for large-scale discrete ill-posed problems. Science China Mathematics, 2017, 60, 701-718.	1.7	15
14	On regularizing effects of MINRES and MR-II for large scale symmetric discrete ill-posed problems. Journal of Computational and Applied Mathematics, 2017, 320, 145-163.	2.0	3
15	A residual based sparse approximate inverse preconditioning procedure for large sparse linear systems. Numerical Linear Algebra With Applications, 2017, 24, e2080.	1.6	5
16	Harmonic and refined harmonic shift-invert residual Arnoldi and Jacobi–Davidson methods for interior eigenvalue problems. Journal of Computational and Applied Mathematics, 2015, 282, 83-97.	2.0	8
17	A positivity preserving inexact Noda iteration for computing the smallest eigenpair of a large irreducible \$\$M\$\$ M -matrix. Numerische Mathematik, 2015, 130, 645-679.	1.9	9
18	A posteriori error estimates of krylov subspace approximations to matrix functions. Numerical Algorithms, 2015, 69, 1-28.	1.9	8

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19	Inner iterations in the shift-invert residual Arnoldi method and the Jacobi-Davidson method. Science China Mathematics, 2014, 57, 1733-1752.	1.7	17
20	On the condition number of the total least squares problem. Numerische Mathematik, 2013, 125, 61-87.	1.9	16
21	On the convergence of Ritz pairs and refined Ritz vectors for quadratic eigenvalue problems. BIT Numerical Mathematics, 2013, 53, 941-958.	2.0	4
22	An Approach to Making SPAI and PSAI Preconditioning Effective for Large Irregular Sparse Linear Systems. SIAM Journal of Scientific Computing, 2013, 35, A1903-A1927.	2.8	4
23	On convergence of the inexact Rayleigh quotient iteration with the Lanczos method used for solving linear systems. Science China Mathematics, 2013, 56, 2145-2160.	1.7	3
24	Robust dropping criteria for F-norm minimization based sparse approximate inverse preconditioning. BIT Numerical Mathematics, 2013, 53, 959-985.	2.0	3
25	On convergence of the inexact Rayleigh quotient iteration with MINRES. Journal of Computational and Applied Mathematics, 2012, 236, 4276-4295.	2.0	8
26	Some results on condition numbers of the scaled total least squares problem. Linear Algebra and Its Applications, 2011, 435, 674-686.	0.9	25
27	Some properties of LSQR for large sparse linear least squares problems. Journal of Systems Science and Complexity, 2010, 23, 815-821.	2.8	6
28	A Refined Harmonic Lanczos Bidiagonalization Method and an Implicitly Restarted Algorithm for Computing the Smallest Singular Triplets of Large Matrices. SIAM Journal of Scientific Computing, 2010, 32, 714-744.	2.8	30
29	A power sparse approximate inverse preconditioning procedure for large sparse linear systems. Numerical Linear Algebra With Applications, 2009, 16, 259-299.	1.6	16
30	A convergence analysis of the inexact Rayleigh quotient iteration and simplified Jacobi-Davidson method for the large Hermitian matrix eigenproblem. Science in China Series A: Mathematics, 2008, 51, 2205-2216.	0.5	5
31	Using cross-product matrices to compute the SVD. Numerical Algorithms, 2006, 42, 31-61.	1.9	13
32	The convergence of harmonic Ritz values, harmonic Ritz vectors and refined harmonic Ritz vectors. Mathematics of Computation, 2004, 74, 1441-1457.	2.1	33
33	An Implicitly Restarted Refined Bidiagonalization Lanczos Method for Computing a Partial Singular Value Decomposition. SIAM Journal on Matrix Analysis and Applications, 2003, 25, 246-265.	1.4	41
34	The refined harmonic Arnoldi method and an implicitly restarted refined algorithm for computing interior eigenpairs of large matrices. Applied Numerical Mathematics, 2002, 42, 489-512.	2.1	32
35	Residuals of refined projection methods for large matrix eigenproblems. Computers and Mathematics With Applications, 2001, 41, 813-820.	2.7	8
36	A refined subspace iteration algorithm for large sparse eigenproblems. Applied Numerical Mathematics, 2000, 32, 35-52.	2.1	28

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37	An analysis of the RayleighRitz method for approximating eigenspaces. Mathematics of Computation, 2000, 70, 637-648.	2.1	91
38	On IGMRES: An incomplete generalized minimal residual method for large unsymmetric linear systems. Science in China Series A: Mathematics, 1998, 41, 1278-1288.	0.5	3
39	Generalized block Lanczos methods for large unsymmetric eigenproblems. Numerische Mathematik, 1998, 80, 239-266.	1.9	23
40	Refined iterative algorithms based on Arnoldi's process for large unsymmetric eigenproblems. Linear Algebra and Its Applications, 1997, 259, 1-23.	0.9	99
41	On IOM(q): The Incomplete Orthogonalization Method for Large Unsymmetric Linear Systems. Numerical Linear Algebra With Applications, 1996, 3, 491-512.	1.6	5
42	The Convergence of Generalized Lanczos Methods for Large Unsymmetric Eigenproblems. SIAM Journal on Matrix Analysis and Applications, 1995, 16, 843-862.	1.4	45
43	Composite orthogonal projection methods for large matrix eigenproblems. Science in China Series A: Mathematics, 1989, 42, 577-585.	0.5	18