

Yousef Or Youcef Saad

List of Publications by Year in descending order

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171
papers

7,899
citations

50276

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84
g-index

174
all docs

174
docs citations

174
times ranked

4303
citing authors

#	ARTICLE	IF	CITATIONS
1	Shanks and Anderson-type acceleration techniques for systems of nonlinear equations. IMA Journal of Numerical Analysis, 2022, 42, 3058-3093.	2.9	4
2	A Non-perturbative Approach to Computing Seismic Normal Modes in Rotating Planets. Journal of Scientific Computing, 2022, 91, 1.	2.3	2
3	Planetary Normal Mode Computation: Parallel Algorithms, Performance, and Reproducibility. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 2609-2622.	5.6	2
4	A rational approximation method for solving acoustic nonlinear eigenvalue problems. Engineering Analysis With Boundary Elements, 2020, 111, 44-54.	3.7	15
5	Spectrum-Adapted Polynomial Approximation for Matrix Functions with Applications in Graph Signal Processing. Algorithms, 2020, 13, 295.	2.1	0
6	Multicolor low-rank preconditioner for general sparse linear systems. Numerical Linear Algebra With Applications, 2020, 27, e2316.	1.6	2
7	Solving the Three-Dimensional High-frequency Helmholtz Equation Using Contour Integration and Polynomial Preconditioning. SIAM Journal on Matrix Analysis and Applications, 2020, 41, 58-82.	1.4	9
8	Computational Materials Science and Engineering. Modeling and Simulation in Science, Engineering and Technology, 2020, , 123-150.	0.6	0
9	The Eigenvalues Slicing Library (EVSL): Algorithms, Implementation, and Software. SIAM Journal of Scientific Computing, 2019, 41, C393-C415.	2.8	23
10	Spectrum-adapted Polynomial Approximation for Matrix Functions. , 2019, , .		3
11	Sampling and multilevel coarsening algorithms for fast matrix approximations. Numerical Linear Algebra With Applications, 2019, 26, e2234.	1.6	5
12	Scalable remote homology detection and fold recognition in massive protein networks. Proteins: Structure, Function and Bioinformatics, 2019, 87, 478-491.	2.6	3
13	Find the dimension that counts: Fast dimension estimation and Krylov PCA. , 2019, , 720-728.		1
14	Domain decomposition approaches for accelerating contour integration eigenvalue solvers for symmetric eigenvalue problems. Numerical Linear Algebra With Applications, 2018, 25, e2154.	1.6	10
15	A scalable iterative dense linear system solver for multiple right-hand sides in data analytics. Parallel Computing, 2018, 74, 136-153.	2.1	8
16	A posteriori error estimate for computing $\text{tr}(f(A))$ by using the Lanczos method. Numerical Linear Algebra With Applications, 2018, 25, e2170.	1.6	4
17	Phase Retrieval via Reweighted Amplitude Flow. IEEE Transactions on Signal Processing, 2018, , 1-1.	5.3	51
18	Computing Planetary Interior Normal Modes with a Highly Parallel Polynomial Filtering Eigensolver. , 2018, , .		12

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19	Fast Computation of Spectral Densities for Generalized Eigenvalue Problems. SIAM Journal of Scientific Computing, 2018, 40, A2749-A2773.	2.8	9
20	SMASH: Structured matrix approximation by separation and hierarchy. Numerical Linear Algebra With Applications, 2018, 25, e2204.	1.6	27
21	A Hierarchical Low Rank Schur Complement Preconditioner for Indefinite Linear Systems. SIAM Journal of Scientific Computing, 2018, 40, A2234-A2252.	2.8	7
22	Beyond Automated Multilevel Substructuring: Domain Decomposition with Rational Filtering. SIAM Journal of Scientific Computing, 2018, 40, C477-C502.	2.8	9
23	Shanks Sequence Transformations and Anderson Acceleration. SIAM Review, 2018, 60, 646-669.	9.5	38
24	Applications of Trace Estimation Techniques. Lecture Notes in Computer Science, 2018, , 19-33.	1.3	3
25	A Rational Function Preconditioner For Indefinite Sparse Linear Systems. SIAM Journal of Scientific Computing, 2017, 39, A1145-A1167.	2.8	8
26	Fast Estimation of Approximate Matrix Ranks Using Spectral Densities. Neural Computation, 2017, 29, 1317-1351.	2.2	12
27	Fast Estimation of $\text{tr}(f(A))$ via Stochastic Lanczos Quadrature. SIAM Journal on Matrix Analysis and Applications, 2017, 38, 1075-1099.	1.4	66
28	Low-Rank Correction Methods for Algebraic Domain Decomposition Preconditioners. SIAM Journal on Matrix Analysis and Applications, 2017, 38, 807-828.	1.4	18
29	CuCheb: A GPU implementation of the filtered Lanczos procedure. Computer Physics Communications, 2017, 220, 332-340.	7.5	10
30	Low rank approximation and decomposition of large matrices using error correcting codes. IEEE Transactions on Information Theory, 2017, , 1-1.	2.4	3
31	Formation enthalpies for transition metal alloys using machine learning. Physical Review B, 2017, 95, .	3.2	24
32	Improving the Incoherence of a Learned Dictionary via Rank Shrinkage. Neural Computation, 2017, 29, 263-285.	2.2	19
33	Efficient estimation of eigenvalue counts in an interval. Numerical Linear Algebra With Applications, 2016, 23, 674-692.	1.6	63
34	Schur complementâ€based domain decomposition preconditioners with lowâ€rank corrections. Numerical Linear Algebra With Applications, 2016, 23, 706-729.	1.6	21
35	PFEAST: A High Performance Sparse Eigenvalue Solver Using Distributed-Memory Linear Solvers. , 2016, , .		12
36	Computing Partial Spectra with Least-Squares Rational Filters. SIAM Journal of Scientific Computing, 2016, 38, A3020-A3045.	2.8	20

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37	A Thick-Restart Lanczos Algorithm with Polynomial Filtering for Hermitian Eigenvalue Problems. SIAM Journal of Scientific Computing, 2016, 38, A2512-A2534.	2.8	38
38	Approximating Spectral Densities of Large Matrices. SIAM Review, 2016, 58, 34-65.	9.5	84
39	Analysis of Subspace Iteration for Eigenvalue Problems with Evolving Matrices. SIAM Journal on Matrix Analysis and Applications, 2016, 37, 103-122.	1.4	17
40	An Algebraic Multilevel Preconditioner with Low-Rank Corrections for Sparse Symmetric Matrices. SIAM Journal on Matrix Analysis and Applications, 2016, 37, 235-259.	1.4	26
41	Spectral recycling strategies for the solution of nonlinear eigenproblems in thermoacoustics. Numerical Linear Algebra With Applications, 2015, 22, 1039-1058.	1.6	4
42	Matrix Reordering Using Multilevel Graph Coarsening for ILU Preconditioning. SIAM Journal of Scientific Computing, 2015, 37, A391-A419.	2.8	13
43	Efficient Algorithms for Estimating the Absorption Spectrum within Linear Response TDDFT. Journal of Chemical Theory and Computation, 2015, 11, 5197-5208.	5.3	35
44	Prewhitening High-Dimensional fMRI Data Sets Without Eigendecomposition. Neural Computation, 2014, 26, 907-919.	2.2	10
45	Graph Partitioning Using Matrix Values for Preconditioning Symmetric Positive Definite Systems. SIAM Journal of Scientific Computing, 2014, 36, A63-A87.	2.8	19
46	Fast Updating Algorithms for Latent Semantic Indexing. SIAM Journal on Matrix Analysis and Applications, 2014, 35, 1105-1131.	1.4	3
47	Chebyshev-filtered subspace iteration method free of sparse diagonalization for solving the Kohn-Sham equation. Journal of Computational Physics, 2014, 274, 770-782.	3.8	57
48	Preconditioned Krylov Subspace Methods for Sampling Multivariate Gaussian Distributions. SIAM Journal of Scientific Computing, 2014, 36, A588-A608.	2.8	45
49	Divide and Conquer Low-Rank Preconditioners for Symmetric Matrices. SIAM Journal of Scientific Computing, 2013, 35, A2069-A2095.	2.8	24
50	GPU-accelerated preconditioned iterative linear solvers. Journal of Supercomputing, 2013, 63, 443-466.	3.6	196
51	Krylov subspace methods for computing hydrodynamic interactions in Brownian dynamics simulations. Journal of Chemical Physics, 2012, 137, 064106.	3.0	69
52	A Filtered Lanczos Procedure for Extreme and Interior Eigenvalue Problems. SIAM Journal of Scientific Computing, 2012, 34, A2220-A2246.	2.8	46
53	Modification and Compensation Strategies for Threshold-based Incomplete Factorizations. SIAM Journal of Scientific Computing, 2012, 34, A48-A75.	2.8	10
54	Dense Subgraph Extraction with Application to Community Detection. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 1216-1230.	5.7	186

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55	Data mining for materials: Computational experiments with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mrow}\langle \text{mml:mi}A\langle \text{mml:mi}\rangle B\langle \text{mml:mi}\rangle \langle \text{mml:mrow}\rangle \langle \text{mml:math}\rangle \text{compounds.}$	3.2	90
56	A probing method for computing the diagonal of a matrix inverse. Numerical Linear Algebra With Applications, 2012, 19, 485-501.	1.6	87
57	A spectrum slicing method for the Kohn-Sham problem. Computer Physics Communications, 2012, 183, 497-505.	7.5	98
58	Quantum algorithms for predicting the properties of complex materials. , 2012, , .		2
59	Parallel Numerical Computing from Iliac IV to Exascale-The Contributions of Ahmed H. Sameh. , 2012, , 1-44.		2
60	Domain-Decomposition-Type Methods for Computing the Diagonal of a Matrix Inverse. SIAM Journal of Scientific Computing, 2011, 33, 2823-2847.	2.8	14
61	Computing $f(A)b$ via Least Squares Polynomial Approximations. SIAM Journal of Scientific Computing, 2011, 33, 195-222.	2.8	28
62	Exploiting Capabilities of Many Core Platforms in Reservoir Simulation. , 2011, , .		33
63	Special issue on Parallel Matrix Algorithms and Applications (PMAA-10). Parallel Computing, 2011, 37, 731-732.	2.1	0
64	Lanczos-based Low-Rank Correction Method for Solving the Dyson Equation in Inhomogenous Dynamical Mean-Field Theory. Physics Procedia, 2011, 15, 22-28.	1.2	1
65	Rational approximation to the Fermi-Dirac function with applications in density functional theory. Numerical Algorithms, 2011, 56, 455-479.	1.9	13
66	Incremental incomplete LU factorizations with applications. Numerical Linear Algebra With Applications, 2010, 17, 811-837.	1.6	15
67	Special issue on Parallel Matrix Algorithms and Applications. Parallel Computing, 2010, 36, 213-214.	2.1	0
68	Preconditioning Helmholtz linear systems. Applied Numerical Mathematics, 2010, 60, 420-431.	2.1	45
69	Harnessing molecular excited states with Lanczos chains. Journal of Physics Condensed Matter, 2010, 22, 074204.	1.8	15
70	Hypergraph-based multilevel matrix approximation for text information retrieval. , 2010, , .		3
71	Multilevel manifold learning with application to spectral clustering. , 2010, , .		6
72	Numerical Methods for Electronic Structure Calculations of Materials. SIAM Review, 2010, 52, 3-54.	9.5	231

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73	Lanczos Vectors versus Singular Vectors for Effective Dimension Reduction. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 1091-1103.	5.7	31
74	Pseudopotentials on Grids: Application to the Electronic, Optical, and Vibrational Properties of Silicon Nanocrystals. Journal of Computational and Theoretical Nanoscience, 2009, 6, 1247-1261.	0.4	6
75	Two classes of multiseccant methods for nonlinear acceleration. Numerical Linear Algebra With Applications, 2009, 16, 197-221.	1.6	183
76	Algorithms for the electronic and vibrational properties of nanocrystals. Journal of Physics Condensed Matter, 2009, 21, 064207.	1.8	9
77	On the Tensor SVD and the Optimal Low Rank Orthogonal Approximation of Tensors. SIAM Journal on Matrix Analysis and Applications, 2009, 30, 1709-1734.	1.4	71
78	Block Krylov-Schur method for large symmetric eigenvalue problems. Numerical Algorithms, 2008, 47, 341-359.	1.9	31
79	Graph-Based Multilevel Dimensionality Reduction with Applications to Eigenfaces and Latent Semantic Indexing. , 2008, , .		11
80	Computation of Large Invariant Subspaces Using Polynomial Filtered Lanczos Iterations with Applications in Density Functional Theory. SIAM Journal on Matrix Analysis and Applications, 2008, 30, 397-418.	1.4	25
81	Farthest Centroids Divisive Clustering. , 2008, , .		11
82	Turbo charging time-dependent density-functional theory with Lanczos chains. Journal of Chemical Physics, 2008, 128, 154105.	3.0	234
83	Orthogonal Neighborhood Preserving Projections: A Projection-Based Dimensionality Reduction Technique. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 2143-2156.	13.9	263
84	A Chebyshev-Davidson Algorithm for Large Symmetric Eigenproblems. SIAM Journal on Matrix Analysis and Applications, 2007, 29, 954-971.	1.4	43
85	A Greedy Strategy for Coarse-Grid Selection. SIAM Journal of Scientific Computing, 2007, 29, 1825-1853.	2.8	22
86	Greedy Coarsening Strategies for Nonsymmetric Problems. SIAM Journal of Scientific Computing, 2007, 29, 2115-2143.	2.8	7
87	On correction equations and domain decomposition for computing invariant subspaces. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 1471-1483.	6.6	8
88	Algorithms for the evolution of electronic properties in nanocrystals. Computer Physics Communications, 2007, 177, 1-5.	7.5	8
89	Efficient first-principles calculations of the electronic structure of periodic systems. Computer Physics Communications, 2007, 177, 339-347.	7.5	18
90	Schur Complement Preconditioners for Distributed General Sparse Linear Systems. , 2007, , 127-138.		2

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91	A Parallel Multistage ILU Factorization Based on a Hierarchical Graph Decomposition. SIAM Journal of Scientific Computing, 2006, 28, 2266-2293.	2.8	36
92	MIQR: A Multilevel Incomplete QR Preconditioner for Large Sparse Least-Squares Problems. SIAM Journal on Matrix Analysis and Applications, 2006, 28, 524-550.	1.4	26
93	Filtered Conjugate Residual-Type Algorithms with Applications. SIAM Journal on Matrix Analysis and Applications, 2006, 28, 845-870.	1.4	23
94	Multilevel Preconditioners Constructed From Inverse-Based ILUs. SIAM Journal of Scientific Computing, 2006, 27, 1627-1650.	2.8	107
95	SchurRAS: A Restricted Version of the Overlapping Schur Complement Preconditioner. SIAM Journal of Scientific Computing, 2006, 27, 1787-1801.	2.8	11
96	Evolution of Magnetism in Iron from the Atom to the Bulk. Physical Review Letters, 2006, 97, 147201.	7.8	82
97	PARSEC – the pseudopotential algorithm for real-space electronic structure calculations: recent advances and novel applications to nano-structures. Physica Status Solidi (B): Basic Research, 2006, 243, 1063-1079.	1.5	285
98	Diagonalization methods in PARSEC. Physica Status Solidi (B): Basic Research, 2006, 243, 2188-2197.	1.5	10
99	Self-consistent-field calculations using Chebyshev-filtered subspace iteration. Journal of Computational Physics, 2006, 219, 172-184.	3.8	152
100	Parallel self-consistent-field calculations via Chebyshev-filtered subspace acceleration. Physical Review E, 2006, 74, 066704.	2.1	145
101	Applying Parallel Direct Solver Techniques to Build Robust High Performance Preconditioners. Lecture Notes in Computer Science, 2006, , 611-619.	1.3	0
102	Efficient computation of the coupling matrix in time-dependent density functional theory. Computer Physics Communications, 2005, 167, 7-22.	7.5	5
103	Computing charge densities with partially reorthogonalized Lanczos. Computer Physics Communications, 2005, 171, 175-186.	7.5	24
104	Computation of Smallest Eigenvalues using Spectral Schur Complements. SIAM Journal of Scientific Computing, 2005, 27, 458-481.	2.8	34
105	Multilevel ILU With Reorderings for Diagonal Dominance. SIAM Journal of Scientific Computing, 2005, 27, 1032-1057.	2.8	35
106	Preconditioning techniques for the solution of the Helmholtz equation by the finite element method. Mathematics and Computers in Simulation, 2004, 65, 303-321.	4.4	30
107	Variations on algebraic recursive multilevel solvers (ARMS) for the solution of CFD problems. Applied Numerical Mathematics, 2004, 51, 305-327.	2.1	7
108	Block Preconditioners for Saddle Point Problems. Numerical Algorithms, 2003, 33, 367-379.	1.9	4

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109	pARMS: a parallel version of the algebraic recursive multilevel solver. Numerical Linear Algebra With Applications, 2003, 10, 485-509.	1.6	91
110	Rational approximation preconditioners for sparse linear systems. Journal of Computational and Applied Mathematics, 2003, 158, 419-442.	2.0	0
111	Parallel implementation of time-dependent density functional theory. Computer Physics Communications, 2003, 156, 22-42.	7.5	36
112	Finding Exact and Approximate Block Structures for ILU Preconditioning. SIAM Journal of Scientific Computing, 2003, 24, 1107-1123.	2.8	20
113	Crout Versions of ILU for General Sparse Matrices. SIAM Journal of Scientific Computing, 2003, 25, 716-728.	2.8	90
114	Block LU Preconditioners for Symmetric and Nonsymmetric Saddle Point Problems. SIAM Journal of Scientific Computing, 2003, 25, 729-748.	2.8	11
115	Ab Initio Calculations for Large Dielectric Matrices of Confined Systems. Physical Review Letters, 2003, 90, 127401.	7.8	66
116	Using real space pseudopotentials for the electronic structure problem. Handbook of Numerical Analysis, 2003, 10, 613-637.	1.8	9
117	Preconditioning Techniques for the Solution of the Helmholtz Equation by the Finite Element Method. Lecture Notes in Computer Science, 2003, , 847-858.	1.3	0
118	Enhanced GMRES Acceleration Techniques for some CFD Problems. International Journal of Computational Fluid Dynamics, 2002, 16, 1-20.	1.2	23
119	A Factored Approximate Inverse Preconditioner with Pivoting. SIAM Journal on Matrix Analysis and Applications, 2002, 23, 692-705.	1.4	15
120	On the Relations between ILUs and Factored Approximate Inverses. SIAM Journal on Matrix Analysis and Applications, 2002, 24, 219-237.	1.4	36
121	Enhanced multi-level block ILU preconditioning strategies for general sparse linear systems. Journal of Computational and Applied Mathematics, 2001, 130, 99-118.	2.0	22
122	An edge based stabilized finite element method for solving compressible flows: formulation and parallel implementation. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 6735-6761.	6.6	14
123	Further analysis of minimum residual iterations. Numerical Linear Algebra With Applications, 2000, 7, 67-93.	1.6	12
124	High-order ILU preconditioners for CFD problems. International Journal for Numerical Methods in Fluids, 2000, 33, 767-788.	1.6	29
125	Preconditioning strategies for linear systems arising in tire design. Numerical Linear Algebra With Applications, 2000, 7, 743-757.	1.6	3
126	Iterative solution of linear systems in the 20th century. Journal of Computational and Applied Mathematics, 2000, 123, 1-33.	2.0	333

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127	High-order ILU preconditioners for CFD problems. International Journal for Numerical Methods in Fluids, 2000, 33, 767-788.	1.6	2
128	Distributed Schur Complement Techniques for General Sparse Linear Systems. SIAM Journal of Scientific Computing, 1999, 21, 1337-1356.	2.8	104
129	Modified Krylov acceleration for parallel environments. Applied Numerical Mathematics, 1999, 30, 191-212.	2.1	3
130	Electronic structure calculations for plane-wave codes without diagonalization. Computer Physics Communications, 1999, 118, 21-30.	7.5	35
131	BILUTM: A Domain-Based Multilevel Block ILUT Preconditioner for General Sparse Matrices. SIAM Journal on Matrix Analysis and Applications, 1999, 21, 279-299.	1.4	62
132	BILUM: Block Versions of Multielimination and Multilevel ILU Preconditioner for General Sparse Linear Systems. SIAM Journal of Scientific Computing, 1999, 20, 2103-2121.	2.8	76
133	Non-standard Parallel Solution Strategies for Distributed Sparse Linear Systems. Lecture Notes in Computer Science, 1999, , 13-27.	1.3	8
134	Preconditioning the Matrix Exponential Operator with Applications. Journal of Scientific Computing, 1998, 13, 275-302.	2.3	10
135	An arbitrary Lagrangian-Eulerian finite element method for solving three-dimensional free surface flows. Computer Methods in Applied Mechanics and Engineering, 1998, 162, 79-106.	6.6	53
136	Dynamic Thick Restarting of the Davidson, and the Implicitly Restarted Arnoldi Methods. SIAM Journal of Scientific Computing, 1998, 19, 227-245.	2.8	92
137	Approximate Inverse Preconditioners via Sparse-Sparse Iterations. SIAM Journal of Scientific Computing, 1998, 19, 995-1023.	2.8	191
138	Solution of distributed sparse linear systems using PPARSLIB. Lecture Notes in Computer Science, 1998, , 503-509.	1.3	1
139	ENHANCED ACCELERATION AND RECONDITIONING TECHNIQUES. , 1998, , 478-487.		0
140	Approximate Inverse Techniques for Block-Partitioned Matrices. SIAM Journal of Scientific Computing, 1997, 18, 1657-1675.	2.8	77
141	Analysis of Augmented Krylov Subspace Methods. SIAM Journal on Matrix Analysis and Applications, 1997, 18, 435-449.	1.4	93
142	Experimental study of ILU preconditioners for indefinite matrices. Journal of Computational and Applied Mathematics, 1997, 86, 387-414.	2.0	188
143	Deflated and Augmented Krylov Subspace Techniques. Numerical Linear Algebra With Applications, 1997, 4, 43-66.	1.6	136
144	ILUS: An incomplete LU preconditioner in sparse skyline format. International Journal for Numerical Methods in Fluids, 1997, 25, 739-748.	1.6	20

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145	ILUS: An incomplete LU preconditioner in sparse skyline format. International Journal for Numerical Methods in Fluids, 1997, 25, 739-748.	1.6	1
146	Deflated and Augmented Krylov Subspace Techniques. Numerical Linear Algebra With Applications, 1997, 4, 43-66.	1.6	19
147	Overlapping Domain Decomposition Algorithms for General Sparse Matrices. Numerical Linear Algebra With Applications, 1996, 3, 221-237.	1.6	45
148	DQGMRES: a Direct Quasi-minimal Residual Algorithm Based on Incomplete Orthogonalization. Numerical Linear Algebra With Applications, 1996, 3, 329-343.	1.6	25
149	Overlapping Domain Decomposition Algorithms for General Sparse Matrices. Numerical Linear Algebra With Applications, 1996, 3, 221-237.	1.6	14
150	Robust preconditioning of large, sparse, symmetric eigenvalue problems. Journal of Computational and Applied Mathematics, 1995, 64, 197-215.	2.0	32
151	Design of an iterative solution module for a parallel sparse matrix library (P_SPARSLIB). Applied Numerical Mathematics, 1995, 19, 343-357.	2.1	8
152	ILUT: A dual threshold incomplete LU factorization. Numerical Linear Algebra With Applications, 1994, 1, 387-402.	1.6	530
153	BASIC SPARSE MATRIX COMPUTATIONS ON THE CM-5. International Journal of Modern Physics C, 1993, 04, 65-83.	1.7	5
154	Arnoldi methods for large Sylvester-like observer matrix equations, and an associated algorithm for partial spectrum assignment. Linear Algebra and Its Applications, 1991, 154-156, 225-244.	0.9	100
155	Application of Krylov Subspace Methods in Fluid Dynamics. Nuclear Science and Engineering, 1990, 105, 136-141.	1.1	1
156	Efficient numerical simulation of electron states in quantum wires. Journal of Applied Physics, 1990, 68, 3461-3469.	2.5	76
157	Numerical solution of large nonsymmetric eigenvalue problems. Computer Physics Communications, 1989, 53, 71-90.	7.5	68
158	Data communication in hypercubes. Journal of Parallel and Distributed Computing, 1989, 6, 115-135.	4.1	94
159	Data communication in parallel architectures. Parallel Computing, 1989, 11, 131-150.	2.1	129
160	Preconditioning techniques for nonsymmetric and indefinite linear systems. Journal of Computational and Applied Mathematics, 1988, 24, 89-105.	2.0	112
161	On the Lanczos method for solving symmetric linear systems with several right-hand sides. Mathematics of Computation, 1987, 48, 651-651.	2.1	18
162	Least Squares Polynomials in the Complex Plane and Their Use for Solving Nonsymmetric Linear Systems. SIAM Journal on Numerical Analysis, 1987, 24, 155-169.	2.3	57

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163	Complex shift and invert strategies for real matrices. Linear Algebra and Its Applications, 1987, 88-89, 575-595.	0.9	49
164	Parallel direct methods for solving banded linear systems. Linear Algebra and Its Applications, 1987, 88-89, 623-650.	0.9	13
165	Solving elliptic partial differential equations on the hypercube multiprocessor. Applied Numerical Mathematics, 1987, 3, 81-88.	2.1	7
166	The Impact of Parallel Architectures on The Solution of Eigenvalue Problems. North-Holland Mathematics Studies, 1986, , 37-49.	0.2	4
167	Communication complexity of the Gaussian elimination algorithm on multiprocessors. Linear Algebra and Its Applications, 1986, 77, 315-340.	0.9	33
168	Complexity of dense-linear-system solution on a multiprocessor ring. Linear Algebra and Its Applications, 1986, 77, 205-239.	0.9	55
169	On the condition number of some gram matrices arising from least squares approximation in the complex plane. Numerische Mathematik, 1986, 48, 337-347.	1.9	4
170	Conjugate gradient-like algorithms for solving nonsymmetric linear systems. Mathematics of Computation, 1985, 44, 417-424.	2.1	160
171	Chebyshev acceleration techniques for solving nonsymmetric eigenvalue problems. Mathematics of Computation, 1984, 42, 567-588.	2.1	192