Yousef Or Youcef Saad

List of Publications by Year in Descending Order

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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.

167 papers	6,354 citations	43 h-index	75 g-index
174 ext. papers	7,091 ext. citations	2.5 avg, IF	6.2 L-index

#	Paper	IF	Citations
167	A Non-perturbative Approach to Computing Seismic Normal Modes in Rotating Planets. *Journal of Scientific Computing*, **2022**, 91, 1	2.3	1
166	Planetary Normal Mode Computation: Parallel Algorithms, Performance, and Reproducibility. *IEEE Transactions on Parallel and Distributed Systems*, **2021**, 32, 2609-2622	3.7	2
165	Multicolor low-rank preconditioner for general sparse linear systems. *Numerical Linear Algebra With Applications*, **2020**, 27, e2316	1.6	1
164	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	1.5	6
163	Computational Materials Science and Engineering. *Modeling and Simulation in Science, Engineering and Technology*, **2020**, 123-150	0.8	
162	A rational approximation method for solving acoustic nonlinear eigenvalue problems. *Engineering Analysis With Boundary Elements*, **2020**, 111, 44-54	2.6	8
161	Spectrum-Adapted Polynomial Approximation for Matrix Functions with Applications in Graph Signal Processing. *Algorithms*, **2020**, 13, 295	1.8	
160	Sampling and multilevel coarsening algorithms for fast matrix approximations. *Numerical Linear Algebra With Applications*, **2019**, 26, e2234	1.6	3
159	Scalable remote homology detection and fold recognition in massive protein networks. *Proteins: Structure, Function and Bioinformatics*, **2019**, 87, 478-491	4.2	0
158	The Eigenvalues Slicing Library (EVSL): Algorithms, Implementation, and Software. *SIAM Journal of Scientific Computing*, **2019**, 41, C393-C415	2.6	11
157	Spectrum-adapted Polynomial Approximation for Matrix Functions **2019**,		2
156	Find the dimension that counts: Fast dimension estimation and Krylov PCA **2019**, 720-728		0
155	Domain decomposition approaches for accelerating contour integration eigenvalue solvers for symmetric eigenvalue problems. *Numerical Linear Algebra With Applications*, **2018**, 25, e2154	1.6	6
154	A scalable iterative dense linear system solver for multiple right-hand sides in data analytics. *Parallel Computing*, **2018**, 74, 136-153	1	6
153	A posteriori error estimate for computing tr(f(A)) by using the Lanczos method. *Numerical Linear Algebra With Applications*, **2018**, 25, e2170	1.6	2
152	. *IEEE Transactions on Signal Processing*, **2018**, 1-1	4.8	31
151	SMASH: Structured matrix approximation by separation and hierarchy. *Numerical Linear Algebra With Applications*, **2018**, 25, e2204	1.6	15

150	A Hierarchical Low Rank Schur Complement Preconditioner for Indefinite Linear Systems. *SIAM Journal of Scientific Computing*, **2018**, 40, A2234-A2252	2.6	5
149	Beyond Automated Multilevel Substructuring: Domain Decomposition with Rational Filtering. *SIAM Journal of Scientific Computing*, **2018**, 40, C477-C502	2.6	5
148	Shanks Sequence Transformations and Anderson Acceleration. *SIAM Review*, **2018**, 60, 646-669	7.4	25
147	Applications of Trace Estimation Techniques. *Lecture Notes in Computer Science*, **2018**, 19-33	0.9	1
146	Computing Planetary Interior Normal Modes with a Highly Parallel Polynomial Filtering Eigensolver **2018**,		11
145	Fast Computation of Spectral Densities for Generalized Eigenvalue Problems. *SIAM Journal of Scientific Computing*, **2018**, 40, A2749-A2773	2.6	6
144	A Rational Function Preconditioner For Indefinite Sparse Linear Systems. *SIAM Journal of Scientific Computing*, **2017**, 39, A1145-A1167	2.6	8
143	Fast Estimation of Approximate Matrix Ranks Using Spectral Densities. *Neural Computation*, **2017**, 29, 1317-1351	2.9	10
142	Fast Estimation of $tr(f(A))$ via Stochastic Lanczos Quadrature. *SIAM Journal on Matrix Analysis and Applications*, **2017**, 38, 1075-1099	1.5	33
141	Low-Rank Correction Methods for Algebraic Domain Decomposition Preconditioners. *SIAM Journal on Matrix Analysis and Applications*, **2017**, 38, 807-828	1.5	13
140	Cucheb: A GPU implementation of the filtered Lanczos procedure. *Computer Physics Communications*, **2017**, 220, 332-340	4.2	9
139	Low Rank Approximation and Decomposition of Large Matrices Using Error Correcting Codes. *IEEE Transactions on Information Theory*, **2017**, 1-1	2.8	0
138	Formation enthalpies for transition metal alloys using machine learning. *Physical Review B*, **2017**, 95,	3.3	16
137	Improving the Incoherence of a Learned Dictionary via Rank Shrinkage. *Neural Computation*, **2017**, 29, 263-285	2.9	12
136	A Thick-Restart Lanczos Algorithm with Polynomial Filtering for Hermitian Eigenvalue Problems. *SIAM Journal of Scientific Computing*, **2016**, 38, A2512-A2534	2.6	31
135	Approximating Spectral Densities of Large Matrices. *SIAM Review*, **2016**, 58, 34-65	7.4	56
134	Analysis of Subspace Iteration for Eigenvalue Problems with Evolving Matrices. *SIAM Journal on Matrix Analysis and Applications*, **2016**, 37, 103-122	1.5	14
133	An Algebraic Multilevel Preconditioner with Low-Rank Corrections for Sparse Symmetric Matrices. *SIAM Journal on Matrix Analysis and Applications*, **2016**, 37, 235-259	1.5	25

132	Efficient estimation of eigenvalue counts in an interval. *Numerical Linear Algebra With Applications*, **2016**, 23, 674-692	1.6	46
131	Schur complement-based domain decomposition preconditioners with low-rank corrections. *Numerical Linear Algebra With Applications*, **2016**, 23, 706-729	1.6	19
130	PFEAST: A High Performance Sparse Eigenvalue Solver Using Distributed-Memory Linear Solvers **2016**,		9
129	Computing Partial Spectra with Least-Squares Rational Filters. *SIAM Journal of Scientific Computing*, **2016**, 38, A3020-A3045	2.6	18
128	Matrix Reordering Using Multilevel Graph Coarsening for ILU Preconditioning. *SIAM Journal of Scientific Computing*, **2015**, 37, A391-A419	2.6	11
127	Efficient Algorithms for Estimating the Absorption Spectrum within Linear Response TDDFT. *Journal of Chemical Theory and Computation*, **2015**, 11, 5197-208	6.4	25
126	Spectral recycling strategies for the solution of nonlinear eigenproblems in thermoacoustics. *Numerical Linear Algebra With Applications*, **2015**, 22, 1039-1058	1.6	4
125	Fast Updating Algorithms for Latent Semantic Indexing. *SIAM Journal on Matrix Analysis and Applications*, **2014**, 35, 1105-1131	1.5	3
124	Chebyshev-filtered subspace iteration method free of sparse diagonalization for solving the KohnSham equation. *Journal of Computational Physics*, **2014**, 274, 770-782	4.1	40
123	Preconditioned Krylov Subspace Methods for Sampling Multivariate Gaussian Distributions. *SIAM Journal of Scientific Computing*, **2014**, 36, A588-A608	2.6	35
122	Prewhitening high-dimensional FMRI data sets without eigendecomposition. *Neural Computation*, **2014**, 26, 907-19	2.9	4
121	Graph Partitioning Using Matrix Values for Preconditioning Symmetric Positive Definite Systems. *SIAM Journal of Scientific Computing*, **2014**, 36, A63-A87	2.6	14
120	Divide and Conquer Low-Rank Preconditioners for Symmetric Matrices. *SIAM Journal of Scientific Computing*, **2013**, 35, A2069-A2095	2.6	21
119	GPU-accelerated preconditioned iterative linear solvers. *Journal of Supercomputing*, **2013**, 63, 443-466	2.5	141
118	A spectrum slicing method for the KohnSham problem. *Computer Physics Communications*, **2012**, 183, 497-505	4.2	82
117	A Filtered Lanczos Procedure for Extreme and Interior Eigenvalue Problems. *SIAM Journal of Scientific Computing*, **2012**, 34, A2220-A2246	2.6	40
116	Modification and Compensation Strategies for Threshold-based Incomplete Factorizations. *SIAM Journal of Scientific Computing*, **2012**, 34, A48-A75	2.6	8
115	. *IEEE Transactions on Knowledge and Data Engineering*, **2012**, 24, 1216-1230	4.2	145

114	Data mining for materials: Computational experiments with AB compounds. *Physical Review B*, **2012**, 85,	3.3	74
113	A probing method for computing the diagonal of a matrix inverse. *Numerical Linear Algebra With Applications*, **2012**, 19, 485-501	1.6	63
112	Krylov subspace methods for computing hydrodynamic interactions in brownian dynamics simulations. *Journal of Chemical Physics*, **2012**, 137, 064106	3.9	52
111	Quantum algorithms for predicting the properties of complex materials **2012**,		2
110	Parallel Numerical Computing from Illiac IV to Exascale The Contributions of Ahmed H. Sameh **2012**, 1-44		1
109	Domain-Decomposition-Type Methods for Computing the Diagonal of a Matrix Inverse. *SIAM Journal of Scientific Computing*, **2011**, 33, 2823-2847	2.6	10
108	Computing $f(A)b$ via Least Squares Polynomial Approximations. *SIAM Journal of Scientific Computing*, **2011**, 33, 195-222	2.6	26
107	Exploiting Capabilities of Many Core Platforms in Reservoir Simulation **2011**,		24
106	Lanczos-based Low-Rank Correction Method for Solving the Dyson Equation in Inhomogenous Dynamical Mean-Field Theory. *Physics Procedia*, **2011**, 15, 22-28		1
105	Rational approximation to the Fermi Dirac function with applications in density functional theory. *Numerical Algorithms*, **2011**, 56, 455-479	2.1	10
104	Harnessing molecular excited states with Lanczos chains. *Journal of Physics Condensed Matter*, **2010** , 22, 074204	1.8	14
103	Hypergraph-based multilevel matrix approximation for text information retrieval **2010**,		3
102	Multilevel manifold learning with application to spectral clustering **2010**,		6
101	Numerical Methods for Electronic Structure Calculations of Materials. *SIAM Review*, **2010**, 52, 3-54	7.4	176
100	Incremental incomplete LU factorizations with applications. *Numerical Linear Algebra With Applications*, **2010**, 17, 811-837	1.6	13
99	Preconditioning Helmholtz linear systems. *Applied Numerical Mathematics*, **2010**, 60, 420-431	2.5	39
98	Lanczos Vectors versus Singular Vectors for Effective Dimension Reduction. *IEEE Transactions on Knowledge and Data Engineering*, **2009**, 21, 1091-1103	4.2	20
97	Pseudopotentials on Grids: Application to the Electronic, Optical, and Vibrational Properties of Silicon Nanocrystals. *Journal of Computational and Theoretical Nanoscience*, **2009**, 6, 1247-1261	0.3	6

96	Two classes of multisecant methods for nonlinear acceleration. *Numerical Linear Algebra With Applications*, **2009**, 16, 197-221	1.6	131
95	Algorithms for the electronic and vibrational properties of nanocrystals. *Journal of Physics Condensed Matter*, **2009**, 21, 064207	1.8	8
94	On the Tensor SVD and the Optimal Low Rank Orthogonal Approximation of Tensors. *SIAM Journal on Matrix Analysis and Applications*, **2009**, 30, 1709-1734	1.5	46
93	Graph-Based Multilevel Dimensionality Reduction with Applications to Eigenfaces and Latent Semantic Indexing **2008**,		8
92	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	1.5	19
91	Farthest Centroids Divisive Clustering **2008**,		3
90	Turbo charging time-dependent density-functional theory with Lanczos chains. *Journal of Chemical Physics*, **2008**, 128, 154105	3.9	207
89	Block KrylovSchur method for large symmetric eigenvalue problems. *Numerical Algorithms*, **2008**, 47, 341-359	2.1	25
88	On correction equations and domain decomposition for computing invariant subspaces. *Computer Methods in Applied Mechanics and Engineering*, **2007**, 196, 1471-1483	5.7	7
87	Algorithms for the evolution of electronic properties in nanocrystals. *Computer Physics Communications*, **2007**, 177, 1-5	4.2	6
86	Efficient first-principles calculations of the electronic structure of periodic systems. *Computer Physics Communications*, **2007**, 177, 339-347	4.2	17
85	Orthogonal neighborhood preserving projections: a projection-based dimensionality reduction technique. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2007**, 29, 2143-56	13.3	224
84	A ChebyshevDavidson Algorithm for Large Symmetric Eigenproblems. *SIAM Journal on Matrix Analysis and Applications*, **2007**, 29, 954-971	1.5	34
83	A Greedy Strategy for Coarse-Grid Selection. *SIAM Journal of Scientific Computing*, **2007**, 29, 1825-1853	2.6	18
82	Greedy Coarsening Strategies for Nonsymmetric Problems. *SIAM Journal of Scientific Computing*, **2007**, 29, 2115-2143	2.6	5
81	Schur Complement Preconditioners for Distributed General Sparse Linear Systems **2007**, 127-138		2
80	Self-consistent-field calculations using Chebyshev-filtered subspace iteration. *Journal of Computational Physics*, **2006**, 219, 172-184	4.1	123
79	Parallel self-consistent-field calculations via Chebyshev-filtered subspace acceleration. *Physical Review E*, **2006**, 74, 066704	2.4	127

78	A Parallel Multistage ILU Factorization Based on a Hierarchical Graph Decomposition. *SIAM Journal of Scientific Computing*, **2006**, 28, 2266-2293	2.6	29
77	MIQR: A Multilevel Incomplete QR Preconditioner for Large Sparse Least-Squares Problems. *SIAM Journal on Matrix Analysis and Applications*, **2006**, 28, 524-550	1.5	20
76	Filtered Conjugate Residual-type Algorithms with Applications. *SIAM Journal on Matrix Analysis and Applications*, **2006**, 28, 845-870	1.5	22
75	Multilevel Preconditioners Constructed From Inverse-Based ILUs. *SIAM Journal of Scientific Computing*, **2006**, 27, 1627-1650	2.6	90
74	SchurRAS: A Restricted Version of the Overlapping Schur Complement Preconditioner. *SIAM Journal of Scientific Computing*, **2006**, 27, 1787-1801	2.6	10
73	Evolution of magnetism in iron from the atom to the bulk. *Physical Review Letters*, **2006**, 97, 147201	7.4	81
72	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	1.3	242
71	Diagonalization methods in PARSEC. *Physica Status Solidi (B): Basic Research*, **2006**, 243, 2188-2197	1.3	8
70	Applying Parallel Direct Solver Techniques to Build Robust High Performance Preconditioners. *Lecture Notes in Computer Science*, **2006**, 611-619	0.9	
69	Computation of Smallest Eigenvalues using Spectral Schur Complements. *SIAM Journal of Scientific Computing*, **2005**, 27, 458-481	2.6	30
68	Multilevel ILU With Reorderings for Diagonal Dominance. *SIAM Journal of Scientific Computing*, **2005**, 27, 1032-1057	2.6	29
67	Efficient computation of the coupling matrix in time-dependent density functional theory. *Computer Physics Communications*, **2005**, 167, 7-22	4.2	5
66	Computing charge densities with partially reorthogonalized Lanczos. *Computer Physics Communications*, **2005**, 171, 175-186	4.2	18
65	Preconditioning techniques for the solution of the Helmholtz equation by the finite element method. *Mathematics and Computers in Simulation*, **2004**, 65, 303-321	3.3	26
64	Variations on algebraic recursive multilevel solvers (ARMS) for the solution of CFD problems. *Applied Numerical Mathematics*, **2004**, 51, 305-327	2.5	6
63	Using real space pseudopotentials for the electronic structure problem. *Handbook of Numerical Analysis*, **2003**, 10, 613-637	1	4
62	Block Preconditioners for Saddle Point Problems. *Numerical Algorithms*, **2003**, 33, 367-379	2.1	3
61	pARMS: a parallel version of the algebraic recursive multilevel solver. *Numerical Linear Algebra With Applications*, **2003**, 10, 485-509	1.6	64

60	Rational approximation preconditioners for sparse linear systems. *Journal of Computational and Applied Mathematics*, **2003**, 158, 419-442	2.4	
59	Parallel implementation of time-dependent density functional theory. *Computer Physics Communications*, **2003**, 156, 22-42	4.2	33
58	Finding Exact and Approximate Block Structures for ILU Preconditioning. *SIAM Journal of Scientific Computing*, **2003**, 24, 1107-1123	2.6	15
57	Crout Versions of ILU for General Sparse Matrices. *SIAM Journal of Scientific Computing*, **2003**, 25, 716-728	2.6	73
56	Block LU Preconditioners for Symmetric and Nonsymmetric Saddle Point Problems. *SIAM Journal of Scientific Computing*, **2003**, 25, 729-748	2.6	8
55	Ab initio calculations for large dielectric matrices of confined systems. *Physical Review Letters*, **2003**, 90, 127401	7.4	63
54	Preconditionning Techniques for the Solution of the Helmholtz Equation by the Finite Element Method. *Lecture Notes in Computer Science*, **2003**, 847-858	0.9	
53	Enhanced GMRES Acceleration Techniques for some CFD Problems. *International Journal of Computational Fluid Dynamics*, **2002**, 16, 1-20	1.2	16
52	A Factored Approximate Inverse Preconditioner with Pivoting. *SIAM Journal on Matrix Analysis and Applications*, **2002**, 23, 692-705	1.5	13
51	On the Relations between ILUs and Factored Approximate Inverses. *SIAM Journal on Matrix Analysis and Applications*, **2002**, 24, 219-237	1.5	32
50	Enhanced multi-level block ILU preconditioning strategies for general sparse linear systems. *Journal of Computational and Applied Mathematics*, **2001**, 130, 99-118	2.4	20
49	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	5.7	9
48	Further analysis of minimum residual iterations. *Numerical Linear Algebra With Applications*, **2000**, 7, 67-93	1.6	10
47	High-order ILU preconditioners for CFD problems. *International Journal for Numerical Methods in Fluids*, **2000**, 33, 767-788	1.9	21
46	Preconditioning strategies for linear systems arising in tire design. *Numerical Linear Algebra With Applications*, **2000**, 7, 743-757	1.6	3
45	Iterative solution of linear systems in the 20th century. *Journal of Computational and Applied Mathematics*, **2000**, 123, 1-33	2.4	270
44	High-order ILU preconditioners for CFD problems **2000**, 33, 767		2
43	Distributed Schur Complement Techniques for General Sparse Linear Systems. *SIAM Journal of Scientific Computing*, **1999**, 21, 1337-1356	2.6	85

42	Modified Krylov acceleration for parallel environments. *Applied Numerical Mathematics*, **1999**, 30, 191-212	1.25	2
41	Electronic structure calculations for plane-wave codes without diagonalization. *Computer Physics Communications*, **1999**, 118, 21-30	4.2	25
40	BILUTM: A Domain-Based Multilevel Block ILUT Preconditioner for General Sparse Matrices. *SIAM Journal on Matrix Analysis and Applications*, **1999**, 21, 279-299	1.5	55
39	BILUM: Block Versions of Multielimination and Multilevel ILU Preconditioner for General Sparse Linear Systems. *SIAM Journal of Scientific Computing*, **1999**, 20, 2103-2121	2.6	67
38	Non-standard Parallel Solution Strategies for Distributed Sparse Linear Systems. *Lecture Notes in Computer Science*, **1999**, 13-27	0.9	5
37	Preconditioning the Matrix Exponential Operator with Applications. *Journal of Scientific Computing*, **1998**, 13, 275-302	2.3	8
36	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	5.7	45
35	Dynamic Thick Restarting of the Davidson, and the Implicitly Restarted Arnoldi Methods. *SIAM Journal of Scientific Computing*, **1998**, 19, 227-245	2.6	76
34	Approximate Inverse Preconditioners via Sparse-Sparse Iterations. *SIAM Journal of Scientific Computing*, **1998**, 19, 995-1023	2.6	156
33	Solution of distributed sparse linear systems using PSPARSLIB. *Lecture Notes in Computer Science*, **1998**, 503-509	0.9	1
32	ENHANCED ACCELERATION AND RECONDITIONING TECHNIQUES **1998**, 478-487		
31	Approximate Inverse Techniques for Block-Partitioned Matrices. *SIAM Journal of Scientific Computing*, **1997**, 18, 1657-1675	2.6	65
30	Analysis of Augmented Krylov Subspace Methods. *SIAM Journal on Matrix Analysis and Applications*, **1997**, 18, 435-449	1.5	79
29	Experimental study of ILU preconditioners for indefinite matrices. *Journal of Computational and Applied Mathematics*, **1997**, 86, 387-414	2.4	163
28	Deflated and Augmented Krylov Subspace Techniques. *Numerical Linear Algebra With Applications*, **1997**, 4, 43-66	1.6	116
27	ILUS: An incomplete LU preconditioner in sparse skyline format. *International Journal for Numerical Methods in Fluids*, **1997**, 25, 739-748	1.9	18
26	ILUS: An incomplete LU preconditioner in sparse skyline format **1997**, 25, 739		1
25	Deflated and Augmented Krylov Subspace Techniques **1997**, 4, 43		18

24	Overlapping Domain Decomposition Algorithms for General Sparse Matrices. *Numerical Linear Algebra With Applications*, **1996**, 3, 221-237	1.6	40
23	DQGMRES: a Direct Quasi-minimal Residual Algorithm Based on Incomplete Orthogonalization. *Numerical Linear Algebra With Applications*, **1996**, 3, 329-343	1.6	19
22	Overlapping Domain Decomposition Algorithms for General Sparse Matrices **1996**, 3, 221		14
21	Robust preconditioning of large, sparse, symmetric eigenvalue problems. *Journal of Computational and Applied Mathematics*, **1995**, 64, 197-215	2.4	27
20	Design of an iterative solution module for a parallel sparse matrix library (P_SPARSLIB). *Applied Numerical Mathematics*, **1995**, 19, 343-357	2.5	6
19	ILUT: A dual threshold incomplete LU factorization. *Numerical Linear Algebra With Applications*, **1994**, 1, 387-402	1.6	464
18	BASIC SPARSE MATRIX COMPUTATIONS ON THE CM-5. *International Journal of Modern Physics C*, **1993**, 04, 65-83	1.1	4
17	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	79
16	Application of Krylov Subspace Methods in Fluid Dynamics. *Nuclear Science and Engineering*, **1990**, 105, 136-141	1.2	1
15	Efficient numerical simulation of electron states in quantum wires. *Journal of Applied Physics*, **1990**, 68, 3461-3469	2.5	66
14	Numerical solution of large nonsymmetric eigenvalue problems. *Computer Physics Communications*, **1989**, 53, 71-90	4.2	57
13	Data communication in hypercubes. *Journal of Parallel and Distributed Computing*, **1989**, 6, 115-135	4.4	76
12	Data communication in parallel architectures. *Parallel Computing*, **1989**, 11, 131-150	1	98
11	Preconditioning techniques for nonsymmetric and indefinite linear systems. *Journal of Computational and Applied Mathematics*, **1988**, 24, 89-105	2.4	93
10	Least Squares Polynomials in the Complex Plane and Their Use for Solving Nonsymmetric Linear Systems. *SIAM Journal on Numerical Analysis*, **1987**, 24, 155-169	2.4	43
9	Complex shift and invert strategies for real matrices. *Linear Algebra and Its Applications*, **1987**, 88-89, 575-595	0.9	47
8	Parallel direct methods for solving banded linear systems. *Linear Algebra and Its Applications*, **1987**, 88-89, 623-650	0.9	8
7	Solving elliptic partial differential equations on the hypercube multiprocessor. *Applied Numerical Mathematics*, **1987**, 3, 81-88	2.5	3

6	Communication complexity of the Gaussian elimination algorithm on multiprocessors. *Linear Algebra and Its Applications*, **1986**, 77, 315-340	0.9	26
5	Complexity of dense-linear-system solution on a multiprocessor ring. *Linear Algebra and Its Applications*, **1986**, 77, 205-239	0.9	41
4	On the condition number of some gram matrices arising from least squares approximation in the complex plane. *Numerische Mathematik*, **1986**, 48, 337-347	2.2	3
3	The Impact of Parallel Architectures on The Solution of Eigenvalue Problems. *North-Holland Mathematics Studies*, **1986**, 37-49		3
2	Conjugate gradient-like algorithms for solving nonsymmetric linear systems. *Mathematics of Computation*, **1985**, 44, 417-417	1.6	139
1	Chebyshev acceleration techniques for solving nonsymmetric eigenvalue problems. *Mathematics of Computation*, **1984**, 42, 567-567	1.6	148