

Reinhard Nabben

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	A Linear Algebra Proof that the Inverse of a Strictly Ultrametric Matrix is a Strictly Diagonally Dominant Stieltjes Matrix. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1994, 15, 107-113.	0.7	75
2	Algebraic theory of multiplicative Schwarz methods. <i>Numerische Mathematik</i> , 2001, 89, 605-639.	0.9	67
3	A Framework for Deflated and Augmented Krylov Subspace Methods. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2013, 34, 495-518.	0.7	62
4	Decay Rates of the Inverse of Nonsymmetric Tridiagonal and Band Matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1999, 20, 820-837.	0.7	55
5	A note on comparison theorems for splittings and multisplittings of Hermitian positive definite matrices. <i>Linear Algebra and Its Applications</i> , 1996, 233, 67-80.	0.4	52
6	Generalized ultrametric matrices "a class of inverse M-matrices. <i>Linear Algebra and Its Applications</i> , 1995, 220, 365-390.	0.4	48
7	Two-sided bounds on the inverses of diagonally dominant tridiagonal matrices. <i>Linear Algebra and Its Applications</i> , 1999, 287, 289-305.	0.4	38
8	Deflation and Balancing Preconditioners for Krylov Subspace Methods Applied to Nonsymmetric Matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2008, 30, 684-699.	0.7	37
9	Multilevel Projection-Based Nested Krylov Iteration for Boundary Value Problems. <i>SIAM Journal of Scientific Computing</i> , 2008, 30, 1572-1595.	1.3	33
10	Convergence Theory of Restricted Multiplicative Schwarz Methods. <i>SIAM Journal on Numerical Analysis</i> , 2002, 40, 2318-2336.	1.1	24
11	Comparisons between multiplicative and additive Schwarz iterations in domain decomposition methods. <i>Numerische Mathematik</i> , 2003, 95, 145-162.	0.9	21
12	Algebraic Multilevel Krylov Methods. <i>SIAM Journal of Scientific Computing</i> , 2009, 31, 3417-3437.	1.3	17
13	On the second real eigenvalue of nonnegative and Z-matrices. <i>Linear Algebra and Its Applications</i> , 1997, 255, 303-313.	0.4	16
14	On Green's Matrices of Trees. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2001, 22, 1014-1026.	0.7	16
15	Convergence of Stationary Iterative Methods for Hermitian Semidefinite Linear Systems and Applications to Schwarz Methods. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2008, 30, 925-938.	0.7	16
16	Schwarz Iterations for Symmetric Positive Semidefinite Problems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2007, 29, 98-116.	0.7	15
17	On Cheeger-type inequalities for weighted graphs. <i>Journal of Graph Theory</i> , 2002, 41, 1-17.	0.5	14
18	Conditions for strict inequality in comparisons of spectral radii of splittings of different matrices. <i>Linear Algebra and Its Applications</i> , 2003, 363, 65-80.	0.4	13

#	ARTICLE	IF	CITATIONS
19	Z-matrices and inverse Z-matrices. <i>Linear Algebra and Its Applications</i> , 1997, 256, 31-48.	0.4	12
20	On a class of matrices which arise in the numerical solution of Euler equations. <i>Numerische Mathematik</i> , 1992, 63, 411-431.	0.9	10
21	On Hybrid Multigrid-Schwarz Algorithms. <i>Journal of Scientific Computing</i> , 2008, 36, 165-175.	1.1	9
22	On classes of inverse Z-matrices. <i>Linear Algebra and Its Applications</i> , 1995, 223-224, 521-552.	0.4	8
23	An algorithm for determining if the inverse of a strictly diagonally dominant Stieltjes matrix is strictly ultrametric. <i>Numerische Mathematik</i> , 1993, 65, 493-501.	0.9	6
24	On the Spectrum of Deflated Matrices with Applications to the Deflated Shifted Laplace Preconditioner for the Helmholtz Equation. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2018, 39, 262-286.	0.7	6
25	Improved Upper Bounds for the Real Part of Nonmaximal Eigenvalues of Nonnegative Matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2000, 22, 574-579.	0.7	5
26	Block diagonal dominance of matrices revisited: Bounds for the norms of inverses and eigenvalue inclusion sets. <i>Linear Algebra and Its Applications</i> , 2018, 553, 365-383.	0.4	4
27	Projections, Deflation, and Multigrid for Nonsymmetric Matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2020, 41, 83-105.	0.7	3
28	The Multilevel Krylov-Multigrid Method for the Helmholtz Equation Preconditioned by the Shifted Laplacian. <i>Geosystems Mathematics</i> , 2017, , 113-139.	0.0	3
29	Matrices whose inverses are generalized M-matrices. <i>Linear and Multilinear Algebra</i> , 1998, 44, 67-84.	0.5	2
30	On relationships between several classes of Z-matrices, M-matrices and nonnegative matrices. <i>Linear Algebra and Its Applications</i> , 2007, 421, 417-439.	0.4	2
31	Avoiding singular coarse grid systems. <i>Linear Algebra and Its Applications</i> , 2016, 507, 137-152.	0.4	1
32	On the convergence of two-level Krylov methods for singular symmetric systems. <i>Numerical Linear Algebra With Applications</i> , 2017, 24, e2108.	0.9	0