

Petr Tichy

List of Publications by Year in descending order

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docs citations

22
times ranked

189
citing authors

#	ARTICLE	IF	CITATIONS
1	Convergence analysis of Krylov subspace methods. GAMM Mitteilungen, 2004, 27, 153-173.	5.5	47
2	Error Estimation in Preconditioned Conjugate Gradients. BIT Numerical Mathematics, 2005, 45, 789-817.	2.0	43
3	On sensitivity of Gauss-Christoffel quadrature. Numerische Mathematik, 2007, 107, 147-174.	1.9	21
4	The Worst-Case GMRES for Normal Matrices. BIT Numerical Mathematics, 2004, 44, 79-98.	2.0	18
5	On Efficient Numerical Approximation of the Bilinear Form $c^*A^{-1}b$. SIAM Journal of Scientific Computing, 2011, 33, 565-587.	2.8	14
6	On computing quadrature-based bounds for the A-norm of the error in conjugate gradients. Numerical Algorithms, 2013, 62, 163-191.	1.9	14
7	The Numerical Stability Analysis of Pipelined Conjugate Gradient Methods: Historical Context and Methodology. SIAM Journal of Scientific Computing, 2018, 40, A3549-A3580.	2.8	12
8	The Faber-Manteuffel Theorem for Linear Operators. SIAM Journal on Numerical Analysis, 2008, 46, 1323-1337.	2.3	9
9	On Best Approximations of Polynomials in Matrices in the Matrix 2-Norm. SIAM Journal on Matrix Analysis and Applications, 2009, 31, 853-863.	1.4	9
10	Approximating the extreme Ritz values and upper bounds for the A-norm of the error in CG. Numerical Algorithms, 2019, 82, 937-968.	1.9	8
11	On Chebyshev Polynomials of Matrices. SIAM Journal on Matrix Analysis and Applications, 2010, 31, 2205-2221.	1.4	7
12	On Estimation of the A-norm of the Error in CG and PCG. Proceedings in Applied Mathematics and Mechanics, 2003, 3, 553-554.	0.2	4
13	On orthogonal reduction to Hessenberg form with small bandwidth. Numerical Algorithms, 2009, 51, 133-142.	1.9	4
14	Properties of Worst-Case GMRES. SIAM Journal on Matrix Analysis and Applications, 2013, 34, 1500-1519.	1.4	4
15	Accurate error estimation in CG. Numerical Algorithms, 2021, 88, 1337-1359.	1.9	4
16	Convergence of the multiplicative Schwarz method for singularly perturbed convection-diffusion problems discretized on a Shishkin mesh. Electronic Transactions on Numerical Analysis, 0, 48, 40-62.	0.0	4
17	On Efficient Numerical Solution of Linear Algebraic Systems Arising in Goal-Oriented Error Estimates. Journal of Scientific Computing, 2020, 83, 1.	2.3	3
18	Derivation of BiCG from the conditions defining lanczos' method for solving a system of linear equations. Applications of Mathematics, 1998, 43, 381-388.	0.9	1

#	ARTICLE	IF	CITATIONS
19	Characterization of half-radial matrices. <i>Linear Algebra and Its Applications</i> , 2018, 559, 227-243.	0.9	0
20	Analysis of the multiplicative Schwarz method for matrices with a special block structure. <i>Electronic Transactions on Numerical Analysis</i> , 0, 54, 31-50.	0.0	0