

Christopher C Paige

List of Publications by Year in descending order

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26
papers

4,707
citations

623188

14
h-index

552369

26
g-index

27
all docs

27
docs citations

27
times ranked

3539
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure in loss of orthogonality. <i>Linear Algebra and Its Applications</i> , 2021, 623, 149-167.	0.4	0
2	Accuracy of the Lanczos Process for the Eigenproblem and Solution of Equations. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2019, 40, 1371-1398.	0.7	4
3	The Effects of Loss of Orthogonality on Large Scale Numerical Computations. <i>Lecture Notes in Computer Science</i> , 2018, , 429-439.	1.0	3
4	Properties of a Unitary Matrix Obtained from a Sequence of Normalized Vectors. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2014, 35, 526-545.	0.7	5
5	An augmented analysis of the perturbed two-sided Lanczos tridiagonalization process. <i>Linear Algebra and Its Applications</i> , 2014, 447, 119-132.	0.4	5
6	MINRES-QLP: A Krylov Subspace Method for Indefinite or Singular Symmetric Systems. <i>SIAM Journal of Scientific Computing</i> , 2011, 33, 1810-1836.	1.3	57
7	Hessenberg Matrix Properties and Ritz Vectors in the Finite-Precision Lanczos Tridiagonalization Process. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2011, 32, 1079-1094.	0.7	1
8	An Augmented Stability Result for the Lanczos Hermitian Matrix Tridiagonalization Process. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2010, 31, 2347-2359.	0.7	13
9	A Useful Form of Unitary Matrix Obtained from Any Sequence of Unit 2-Norm $\langle i \rangle_n \langle /i \rangle$ -Vectors. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2009, 31, 565-583.	0.7	21
10	Modified Gram-Schmidt (MGS), Least Squares, and Backward Stability of MGS-GMRES. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2006, 28, 264-284.	0.7	74
11	Core Problems in Linear Algebraic Systems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2005, 27, 861-875.	0.7	34
12	Code and carrier phase based short baseline GPS positioning: computational aspects. <i>GPS Solutions</i> , 2004, 7, 230-240.	2.2	9
13	An Orthogonal Transformation Algorithm for GPS Positioning. <i>SIAM Journal of Scientific Computing</i> , 2003, 24, 1710-1732.	1.3	19
14	Residual and Backward Error Bounds in Minimum Residual Krylov Subspace Methods. <i>SIAM Journal of Scientific Computing</i> , 2002, 23, 1898-1923.	1.3	21
15	Scaled total least squares fundamentals. <i>Numerische Mathematik</i> , 2002, 91, 117-146.	0.9	50
16	Bounds for the least squares distance using scaled total least squares. <i>Numerische Mathematik</i> , 2002, 91, 93-115.	0.9	7
17	Componentwise perturbation analyses for the QR factorization. <i>Numerische Mathematik</i> , 2001, 88, 319-345.	0.9	18
18	Sensitivity analysis of the Lanczos reduction. <i>Numerical Linear Algebra With Applications</i> , 1999, 6, 29-50.	0.9	5

#	ARTICLE	IF	CITATIONS
19	On the sensitivity of the LU factorization. BIT Numerical Mathematics, 1998, 38, 486-501.	1.0	22
20	Sensitivity analyses for factorizations of sparse or structured matrices. Linear Algebra and Its Applications, 1998, 284, 53-71.	0.4	10
21	Perturbation Analyses for the Cholesky Downdating Problem. SIAM Journal on Matrix Analysis and Applications, 1998, 19, 429-443.	0.7	6
22	Perturbation Analyses for the QR Factorization. SIAM Journal on Matrix Analysis and Applications, 1997, 18, 775-791.	0.7	51
23	New perturbation analyses for the Cholesky factorization. IMA Journal of Numerical Analysis, 1996, 16, 457-484.	1.5	31
24	Analysis of the generalized total least squares problem $AX \approx B$ when some columns of A are free of error. Numerische Mathematik, 1993, 65, 177-202.	0.9	23
25	LSQR: An Algorithm for Sparse Linear Equations and Sparse Least Squares. ACM Transactions on Mathematical Software, 1982, 8, 43-71.	1.6	3,556
26	Algorithm 583: LSQR: Sparse Linear Equations and Least Squares Problems. ACM Transactions on Mathematical Software, 1982, 8, 195-209.	1.6	651