

Erin C Carson

List of Publications by Year in descending order

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24
papers

528
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27
all docs

27
docs citations

27
times ranked

246
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixed precision ϵ -step Lanczos and conjugate gradient algorithms. Numerical Linear Algebra With Applications, 2022, 29, .	1.6	5
2	Block Gram-Schmidt algorithms and their stability properties. Linear Algebra and Its Applications, 2022, 638, 150-195.	0.9	12
3	Mixed Precision ϵ -step Conjugate Gradient with Residual Replacement on GPUs. , 2022, , .		1
4	The Stability of Block Variants of Classical Gram–Schmidt. SIAM Journal on Matrix Analysis and Applications, 2021, 42, 1365-1380.	1.4	8
5	A survey of numerical linear algebra methods utilizing mixed-precision arithmetic. International Journal of High Performance Computing Applications, 2021, 35, 344-369.	3.7	61
6	Predict-and-Recompute Conjugate Gradient Variants. SIAM Journal of Scientific Computing, 2020, 42, A3084-A3108.	2.8	1
7	On the cost of iterative computations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190050.	3.4	9
8	Three-Precision GMRES-Based Iterative Refinement for Least Squares Problems. SIAM Journal of Scientific Computing, 2020, 42, A4063-A4083.	2.8	17
9	Accelerating the Solution of Linear Systems by Iterative Refinement in Three Precisions. SIAM Journal of Scientific Computing, 2018, 40, A817-A847.	2.8	109
10	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
11	The Adaptive ϵ -Step Conjugate Gradient Method. SIAM Journal on Matrix Analysis and Applications, 2018, 39, 1318-1338.	1.4	7
12	A New Analysis of Iterative Refinement and Its Application to Accurate Solution of Ill-Conditioned Sparse Linear Systems. SIAM Journal of Scientific Computing, 2017, 39, A2834-A2856.	2.8	70
13	Trade-Offs Between Synchronization, Communication, and Computation in Parallel Linear Algebra Computations. ACM Transactions on Parallel Computing, 2016, 3, 1-47.	1.4	13
14	Write-Avoiding Algorithms. , 2016, , .		22
15	Accuracy of the ϵ -Step Lanczos Method for the Symmetric Eigenproblem in Finite Precision. SIAM Journal on Matrix Analysis and Applications, 2015, 36, 793-819.	1.4	10
16	Communication lower bounds and optimal algorithms for numerical linear algebra. Acta Numerica, 2014, 23, 1-155.	10.7	75
17	Tradeoffs between synchronization, communication, and computation in parallel linear algebra computations. , 2014, , .		10
18	ϵ -Step Krylov Subspace Methods as Bottom Solvers for Geometric Multigrid. , 2014, , .		13

#	ARTICLE	IF	CITATIONS
19	A Residual Replacement Strategy for Improving the Maximum Attainable Accuracy of s -Step Krylov Subspace Methods. SIAM Journal on Matrix Analysis and Applications, 2014, 35, 22-43.	1.4	23
20	Making tech more inclusive. Xrds, 2014, 20, 36-37.	0.3	0
21	Exploiting Data Sparsity in Parallel Matrix Powers Computations. Lecture Notes in Computer Science, 2014, , 15-25.	1.3	8
22	Avoiding Communication in Nonsymmetric Lanczos-Based Krylov Subspace Methods. SIAM Journal of Scientific Computing, 2013, 35, S42-S61.	2.8	34
23	Using flexible points in a developing simulation of selective dissolution in alloys. , 2007, , .		1
24	Multistage mixed precision iterative refinement. Numerical Linear Algebra With Applications, 0, , .	1.6	2