Massimiliano Fasi

List of Publications by Year
in descending order

19 papers	154 citations	1307594 7 h-index	1281871 11 g-index
20 all docs	20 docs citations	20 times ranked	85 citing authors

#	ARTICLE	IF	CITATIONS
1	Stochastic rounding: implementation, error analysis and applications. Royal Society Open Science, 2022, 9, 211631.	2.4	17
2	Generating Extreme-Scale Matrices With Specified Singular Values or Condition Number. SIAM Journal of Scientific Computing, 2021, 43, A663-A684.	2.8	4
3	Matrices with Tunable Infinity-Norm Condition Number and No Need for Pivoting in LU Factorization. SIAM Journal on Matrix Analysis and Applications, 2021, 42, 417-435.	1.4	3
4	Numerical behavior of NVIDIA tensor cores. PeerJ Computer Science, 2021, 7, e330.	4.5	19
5	Sampling the eigenvalues of random orthogonal and unitary matrices. Linear Algebra and Its Applications, 2021, 620, 297-321.	0.9	2
6	Algorithms for Stochastically Rounded Elementary Arithmetic Operations in IEEE 754 Floating-Point Arithmetic. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 1451-1466.	4.6	9
7	Determinants of Normalized Bohemian Upper Hessenberg Matrices. Electronic Journal of Linear Algebra, 2020, 36, 352-366.	0.6	7
8	An Arbitrary Precision Scaling and Squaring Algorithm for the Matrix Exponential. SIAM Journal on Matrix Analysis and Applications, 2019, 40, 1233-1256.	1.4	13
9	Optimality of the Paterson–Stockmeyer method for evaluating matrix polynomials and rational matrix functions. Linear Algebra and Its Applications, 2019, 574, 182-200.	0.9	9
10	Computing primary solutions of equations involving primary matrix functions. Linear Algebra and Its Applications, 2019, 560, 17-42.	0.9	3
11	Computing the Weighted Geometric Mean of Two Large-Scale Matrices and Its Inverse Times a Vector. SIAM Journal on Matrix Analysis and Applications, 2018, 39, 178-203.	1.4	6
12	Multiprecision Algorithms for Computing the Matrix Logarithm. SIAM Journal on Matrix Analysis and Applications, 2018, 39, 472-491.	1.4	16
13	Coping with Silent Errors in HPC Applications. Emergence, Complexity and Computation, 2017, , 269-292.	0.3	5
14	A backward/forward recovery approach for the preconditioned conjugate gradient method. Journal of Computational Science, 2016, 17, 522-534.	2.9	11
15	An Algorithm for the Matrix Lambert W Function. SIAM Journal on Matrix Analysis and Applications, 2015, 36, 669-685.	1.4	17
16	Combining Backward and Forward Recovery to Cope with Silent Errors in Iterative Solvers. , 2015, , .		4
17	Using Hadoop File System and MapReduce in a small/medium Grid site. Journal of Physics: Conference Series, 2012, 396, 042050.	0.4	3
18	Corrigendum to "Determinants of Normalized Bohemian Upper Hessenberg Matrices". Electronic Journal of Linear Algebra, 0, 37, 160-162.	0.6	2

#	Article	IF	Citations
19	Substitution algorithms for rational matrix equations. Electronic Transactions on Numerical Analysis, 0, 53, 500-521.	0.0	2