## Theo Mary

List of Publications by Year in descending order

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Τηέο Μαργ

#	Article	IF	CITATIONS
1	Performance and Scalability of the Block Low-Rank Multifrontal Factorization on Multicore Architectures. ACM Transactions on Mathematical Software, 2019, 45, 1-26.	2.9	135
2	Fast 3D frequency-domain full-waveform inversion with a parallel block low-rank multifrontal direct solver: Application to OBC data from the North Sea. Geophysics, 2016, 81, R363-R383.	2.6	55
3	A New Approach to Probabilistic Rounding Error Analysis. SIAM Journal of Scientific Computing, 2019, 41, A2815-A2835.	2.8	50
4	On the Complexity of the Block Low-Rank Multifrontal Factorization. SIAM Journal of Scientific Computing, 2017, 39, A1710-A1740.	2.8	40
5	Mixed Precision Block Fused Multiply-Add: Error Analysis and Application to GPU Tensor Cores. SIAM Journal of Scientific Computing, 2020, 42, C124-C141.	2.8	29
6	Mixed precision algorithms in numerical linear algebra. Acta Numerica, 2022, 31, 347-414.	10.7	29
7	Stochastic Rounding and Its Probabilistic Backward Error Analysis. SIAM Journal of Scientific Computing, 2021, 43, A566-A585.	2.8	26
8	Large-scale 3-D EM modelling with a Block Low-Rank multifrontal direct solver. Geophysical Journal International, 2017, 209, 1558-1571.	2.4	25
9	A Class of Fast and Accurate Summation Algorithms. SIAM Journal of Scientific Computing, 2020, 42, A1541-A1557.	2.8	22
10	Bridging the Gap Between Flat and Hierarchical Low-Rank Matrix Formats: The Multilevel Block Low-Rank Format. SIAM Journal of Scientific Computing, 2019, 41, A1414-A1442.	2.8	18
11	A New Preconditioner that Exploits Low-Rank Approximations to Factorization Error. SIAM Journal of Scientific Computing, 2019, 41, A59-A82.	2.8	17
12	Stochastic rounding: implementation, error analysis and applications. Royal Society Open Science, 2022, 9, 211631.	2.4	17
13	Sharper Probabilistic Backward Error Analysis for Basic Linear Algebra Kernels with Random Data. SIAM Journal of Scientific Computing, 2020, 42, A3427-A3446.	2.8	14
14	Robust and Accurate Stopping Criteria for Adaptive Randomized Sampling in Matrix-Free Hierarchically Semiseparable Construction. SIAM Journal of Scientific Computing, 2019, 41, S61-S85.	2.8	6
15	Solving block low-rank linear systems by LU factorization is numerically stable. IMA Journal of Numerical Analysis, 2022, 42, 951-980.	2.9	6
16	Improving the Complexity of Block Low-Rank Factorizations with Fast Matrix Arithmetic. SIAM Journal on Matrix Analysis and Applications, 2019, 40, 1478-1496.	1.4	4
17	Block Low-Rank Matrices with Shared Bases: Potential and Limitations of the BLR\$^2\$ Format. SIAM Journal on Matrix Analysis and Applications, 2021, 42, 990-1010.	1.4	4
18	Block lowâ€rank single precision coarse grid solvers for extreme scale multigrid methods. Numerical Linear Algebra With Applications, 0, , e2407.	1.6	4

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#	Article	IF	CITATIONS
19	Performance of random sampling for computing low-rank approximations of a dense matrix on GPUs. , 2015, , .		4

20 Access-averse framework for computing low-rank matrix approximations. , 2014, , .

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