Jack Dongarra

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

522 15,969 53 112 g-index

576 19,023 2 6.59 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
522	Comparing Distributed Termination Detection Algorithms for Modern HPC Platforms. <i>International Journal of Networking and Computing</i> , 2022 , 12, 26-46	0.2	
521	Evaluating Data Redistribution in PaRSEC. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2022 , 33, 1856-1872	3.7	1
520	Using long vector extensions for MPI reductions. <i>Parallel Computing</i> , 2022 , 109, 102871	1	O
519	Batch QR Factorization on GPUs: Design, Optimization, and Tuning. <i>Lecture Notes in Computer Science</i> , 2022 , 60-74	0.9	0
518	A survey of numerical linear algebra methods utilizing mixed-precision arithmetic. <i>International Journal of High Performance Computing Applications</i> , 2021 , 35, 344-369	1.8	13
517	Translational process: Mathematical software perspective. <i>Journal of Computational Science</i> , 2021 , 52, 101216	3.4	1
516	A Set of Batched Basic Linear Algebra Subprograms and LAPACK Routines. <i>ACM Transactions on Mathematical Software</i> , 2021 , 47, 1-23	2.3	3
515	Exploiting Block Structures of KKT Matrices for Efficient Solution of Convex Optimization Problems. <i>IEEE Access</i> , 2021 , 9, 116604-116611	3.5	
514	Accelerating Restarted GMRES With Mixed Precision Arithmetic. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2021 , 1-1	3.7	1
513	Accelerating Geostatistical Modeling and Prediction With Mixed-Precision Computations: A High-Productivity Approach with PaRSEC. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2021 , 1-1	3.7	1
512	Reducing the amount of out-of-core data access for GPU-accelerated randomized SVD. <i>Concurrency Computation Practice and Experience</i> , 2020 , 32, e5754	1.4	1
511	Numerical algorithms for high-performance computational science. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020 , 378, 20190066	3	6
510	Design, Optimization, and Benchmarking of Dense Linear Algebra Algorithms on AMD GPUs 2020 ,		3
509	Load-balancing Sparse Matrix Vector Product Kernels on GPUs. <i>ACM Transactions on Parallel Computing</i> , 2020 , 7, 1-26	1.4	10
508	Extreme-Scale Task-Based Cholesky Factorization Toward Climate and Weather Prediction Applications 2020 ,		8
507	Using Advanced Vector Extensions AVX-512 for MPI Reductions 2020 ,		1
506	Improving the Performance of the GMRES Method Using Mixed-Precision Techniques. <i>Communications in Computer and Information Science</i> , 2020 , 51-66	0.3	3

505	Integrating Deep Learning in Domain Sciences at Exascale. <i>Communications in Computer and Information Science</i> , 2020 , 35-50	0.3	1
504	Flexible Data Redistribution in a Task-Based Runtime System 2020 ,		2
503	HAN: a Hierarchical AutotuNed Collective Communication Framework 2020,		2
502	Investigating the Benefit of FP16-Enabled Mixed-Precision Solvers for Symmetric Positive Definite Matrices Using GPUs. <i>Lecture Notes in Computer Science</i> , 2020 , 237-250	0.9	2
501	Mixed-precision iterative refinement using tensor cores on GPUs to accelerate solution of linear systems. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020 , 476, 20200110	2.4	10
500	Matrix multiplication on batches of small matrices in half and half-complex precisions. <i>Journal of Parallel and Distributed Computing</i> , 2020 , 145, 188-201	4.4	2
499	MAGMA templates for scalable linear algebra on emerging architectures. <i>International Journal of High Performance Computing Applications</i> , 2020 , 34, 645-658	1.8	1
498	Distributed-memory lattice H-matrix factorization. <i>International Journal of High Performance Computing Applications</i> , 2019 , 33, 1046-1063	1.8	7
497	Massively Parallel Automated Software Tuning 2019 ,		2
496	Guest editorsInote: Special issue on clusters, clouds, and data for scientific computing. International Journal of High Performance Computing Applications, 2019, 33, 1067-1068	1.8	
495	Performance of asynchronous optimized Schwarz with one-sided communication. <i>Parallel Computing</i> , 2019 , 86, 66-81	1	8
494	PAPI software-defined events for in-depth performance analysis. <i>International Journal of High Performance Computing Applications</i> , 2019 , 33, 1113-1127	1.8	5
493	Comparing the performance of rigid, moldable and grid-shaped applications on failure-prone HPC platforms. <i>Parallel Computing</i> , 2019 , 85, 1-12	1	7
492	. Computing in Science and Engineering, 2019 , 21, 4-5	1.5	21
491	Least squares solvers for distributed-memory machines with GPU accelerators 2019,		1
490	ParILUT - A Parallel Threshold ILU for GPUs 2019 ,		4
489	SLATE 2019 ,		12
488	Do Moldable Applications Perform Better on Failure-Prone HPC Platforms?. <i>Lecture Notes in Computer Science</i> , 2019 , 787-799	0.9	

487	Linear Systems Solvers for Distributed-Memory Machines with GPU Accelerators. <i>Lecture Notes in Computer Science</i> , 2019 , 495-506	0.9	2
486	MagmaDNN: Towards High-Performance Data Analytics and Machine Learning for Data-Driven Scientific Computing. <i>Lecture Notes in Computer Science</i> , 2019 , 490-503	0.9	4
485	Counter Inspection Toolkit: Making Sense Out of Hardware Performance Events 2019 , 17-37		1
484	Hands-On Research and Training in High Performance Data Sciences, Data Analytics, and Machine Learning for Emerging Environments. <i>Lecture Notes in Computer Science</i> , 2019 , 643-655	0.9	1
483	Checkpointing Strategies for Shared High-Performance Computing Platforms. <i>International Journal of Networking and Computing</i> , 2019 , 9, 28-52	0.2	2
482	Impacts of Multi-GPU MPI Collective Communications on Large FFT Computation 2019,		5
481	Performance Analysis of Tile Low-Rank Cholesky Factorization Using PaRSEC Instrumentation Tools 2019 ,		6
480	Towards Half-Precision Computation for Complex Matrices: A Case Study for Mixed Precision Solvers on GPUs 2019 ,		1
479	Generic Matrix Multiplication for Multi-GPU Accelerated Distributed-Memory Platforms over PaRSEC 2019 ,		7
478	Fast Batched Matrix Multiplication for Small Sizes Using Half-Precision Arithmetic on GPUs 2019 ,		8
477	Increasing Accuracy of Iterative Refinement in Limited Floating-Point Arithmetic on Half-Precision Accelerators 2019 ,		2
476	Progressive Optimization of Batched LU Factorization on GPUs 2019,		1
475	. IEEE Transactions on Parallel and Distributed Systems, 2019 , 30, 1158-1169	3.7	5
474	Variable-size batched GaussIlordan elimination for block-Jacobi preconditioning on graphics processors. <i>Parallel Computing</i> , 2019 , 81, 131-146	1	5
473	Investigating power capping toward energy-efficient scientific applications. <i>Concurrency Computation Practice and Experience</i> , 2019 , 31, e4485	1.4	18
472	Adaptive precision in block-Jacobi preconditioning for iterative sparse linear system solvers. <i>Concurrency Computation Practice and Experience</i> , 2019 , 31, e4460	1.4	23
471	Fine-grained bit-flip protection for relaxation methods. <i>Journal of Computational Science</i> , 2019 , 36, 100	 05 8 3	2
470	Batched one-sided factorizations of tiny matrices using GPUs: Challenges and countermeasures. Journal of Computational Science, 2018 , 26, 226-236	3.4	5

469	. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 1879-1892	3.7	3
468	Accelerating the SVD bi-diagonalization of a batch of small matrices using GPUs. <i>Journal of Computational Science</i> , 2018 , 26, 237-245	3.4	6
467	Evaluation of dataflow programming models for electronic structure theory. <i>Concurrency Computation Practice and Experience</i> , 2018 , 30, e4490	1.4	Ο
466	Guest editorsThote: Special issue on clusters, clouds and data for scientific computing. <i>International Journal of High Performance Computing Applications</i> , 2018 , 32, 3-3	1.8	
465	Optimization and performance evaluation of the IDR iterative Krylov solver on GPUs. <i>International Journal of High Performance Computing Applications</i> , 2018 , 32, 220-230	1.8	3
464	Incomplete Sparse Approximate Inverses for Parallel Preconditioning. <i>Parallel Computing</i> , 2018 , 71, 1-2	221	23
463	Accelerating NWChem Coupled Cluster through dataflow-based execution. <i>International Journal of High Performance Computing Applications</i> , 2018 , 32, 540-551	1.8	2
462	A failure detector for HPC platforms. <i>International Journal of High Performance Computing Applications</i> , 2018 , 32, 139-158	1.8	6
461	. Proceedings of the IEEE, 2018 , 106, 2068-2083	14.3	37
460	Big data and extreme-scale computing: Pathways to Convergence-Toward a shaping strategy for a future software and data ecosystem for scientific inquiry. <i>International Journal of High Performance Computing Applications</i> , 2018 , 32, 435-479	1.8	62
459	Performance of Hierarchical-matrix BiCGStab Solver on GPU Clusters 2018,		3
458	The Design of Fast and Energy-Efficient Linear Solvers: On the Potential of Half-Precision Arithmetic and Iterative Refinement Techniques. <i>Lecture Notes in Computer Science</i> , 2018 , 586-600	0.9	16
457	Analysis and Design Techniques towards High-Performance and Energy-Efficient Dense Linear Solvers on GPUs. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2018 , 29, 2700-2712	3.7	3
456	. IEEE Transactions on Parallel and Distributed Systems, 2018 , 29, 973-984	3.7	12
455	Accelerating the SVD two stage bidiagonal reduction and divide and conquer using GPUs. <i>Parallel Computing</i> , 2018 , 74, 3-18	1	8
454	Task based Cholesky decomposition on Xeon Phi architectures using OpenMP. <i>International Journal of Computational Science and Engineering</i> , 2018 , 17, 310	0.4	
453	Harnessing GPU Tensor Cores for Fast FP16 Arithmetic to Speed up Mixed-Precision Iterative Refinement Solvers 2018 ,		54
452	ADAPT 2018 ,		13

451	The Singular Value Decomposition: Anatomy of Optimizing an Algorithm for Extreme Scale. <i>SIAM Review</i> , 2018 , 60, 808-865	7.4	27
450	Computational Benefit of GPU Optimization for the Atmospheric Chemistry Modeling. <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 1952-1969	7.1	4
449	. Proceedings of the IEEE, 2018 , 106, 2040-2055	14.3	5
448	ParILUTA New Parallel Threshold ILU Factorization. <i>SIAM Journal of Scientific Computing</i> , 2018 , 40, C503-C519	2.6	9
447	Using Jacobi iterations and blocking for solving sparse triangular systems in incomplete factorization preconditioning. <i>Journal of Parallel and Distributed Computing</i> , 2018 , 119, 219-230	4.4	19
446	Porting the PLASMA Numerical Library to the OpenMP Standard. <i>International Journal of Parallel Programming</i> , 2017 , 45, 612-633	1.5	17
445	Fast Cholesky factorization on GPUs for batch and native modes in MAGMA. <i>Journal of Computational Science</i> , 2017 , 20, 85-93	3.4	9
444	Solving dense symmetric indefinite systems using GPUs. <i>Concurrency Computation Practice and Experience</i> , 2017 , 29, e4055	1.4	1
443	Batched Gauss-Jordan Elimination for Block-Jacobi Preconditioner Generation on GPUs 2017,		10
442	Structure-Aware Linear Solver for Realtime Convex Optimization for Embedded Systems. <i>IEEE Embedded Systems Letters</i> , 2017 , 9, 61-64	1	1
441	With Extreme Computing, the Rules Have Changed. <i>Computing in Science and Engineering</i> , 2017 , 19, 52-	62 .5	11
440	Factorization and Inversion of a Million Matrices using GPUs: Challenges and Countermeasures. <i>Procedia Computer Science</i> , 2017 , 108, 606-615	1.6	9
439	Preconditioned Krylov solvers on GPUs. Parallel Computing, 2017, 68, 32-44	1	20
438	The Design and Performance of Batched BLAS on Modern High-Performance Computing Systems. <i>Procedia Computer Science</i> , 2017 , 108, 495-504	1.6	32
437	High-performance Cholesky factorization for GPU-only execution 2017,		6
436	Optimized Batched Linear Algebra for Modern Architectures. <i>Lecture Notes in Computer Science</i> , 2017 , 511-522	0.9	3
435	Variable-Size Batched LU for Small Matrices and Its Integration into Block-Jacobi Preconditioning 2017 ,		3
434	Variable-Size Batched Gauss-Huard for Block-Jacobi Preconditioning. <i>Procedia Computer Science</i> , 2017 , 108, 1783-1792	1.6	3

433	Optimizing the SVD Bidiagonalization Process for a Batch of Small Matrices. <i>Procedia Computer Science</i> , 2017 , 108, 1008-1018	1.6	4
432	Flexible batched sparse matrix-vector product on GPUs 2017 ,		2
431	A look back on 30 years of the Gordon Bell Prize. <i>International Journal of High Performance Computing Applications</i> , 2017 , 31, 469-484	1.8	7
430	Improving Performance of GMRES by Reducing Communication and Pipelining Global Collectives 2017 ,		6
429	On the performance and energy efficiency of sparse linear algebra on GPUs. <i>International Journal of High Performance Computing Applications</i> , 2017 , 31, 375-390	1.8	5
428	Non-GPU-resident symmetric indefinite factorization. <i>Concurrency Computation Practice and Experience</i> , 2017 , 29, e4012	1.4	5
427	Power-aware computing: Measurement, control, and performance analysis for Intel Xeon Phi 2017,		10
426	Novel HPC techniques to batch execution of many variable size BLAS computations on GPUs 2017,		8
425	Dynamic task discovery in PaRSEC 2017 ,		21
424	Towards numerical benchmark for half-precision floating point arithmetic 2017 ,		3
423	Investigating half precision arithmetic to accelerate dense linear system solvers 2017,		22
422	Autotuning batch Cholesky factorization in CUDA with interleaved layout of matrices 2017,		2
421	Sampling algorithms to update truncated SVD 2017 ,		1
420	2017,		5
419	Accelerating the Conjugate Gradient Algorithm with GPUs in CFD Simulations. <i>Lecture Notes in Computer Science</i> , 2017 , 35-43	0.9	1
418	A Framework for Out of Memory SVD Algorithms. <i>Lecture Notes in Computer Science</i> , 2017 , 158-178	0.9	7
417	High-performance conjugate-gradient benchmark: A new metric for ranking high-performance computing systems. <i>International Journal of High Performance Computing Applications</i> , 2016 , 30, 3-10	1.8	49
416	Sunway TaihuLight supercomputer makes its appearance. <i>National Science Review</i> , 2016 , 3, 265-266	10.8	17

415	Task-Based Cholesky Decomposition on Knights Corner Using OpenMP. <i>Lecture Notes in Computer Science</i> , 2016 , 544-562	0.9	2
414	Heterogeneous Streaming 2016 ,		8
413	Search Space Generation and Pruning System for Autotuners 2016 ,		6
412	A new metric for ranking high-performance computing systems. <i>National Science Review</i> , 2016 , 3, 30-35	10.8	12
411	Updating incomplete factorization preconditioners for model order reduction. <i>Numerical Algorithms</i> , 2016 , 73, 611-630	2.1	11
410	Assessing the cost of redistribution followed by a computational kernel: Complexity and performance results. <i>Parallel Computing</i> , 2016 , 52, 22-41	1	3
409	Implementation and Tuning of Batched Cholesky Factorization and Solve for NVIDIA GPUs. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2016 , 27, 2036-2048	3.7	24
408	Accelerating NWChem Coupled Cluster Through Dataflow-Based Execution. <i>Lecture Notes in Computer Science</i> , 2016 , 366-376	0.9	3
407	Dense Symmetric Indefinite Factorization on GPU Accelerated Architectures. <i>Lecture Notes in Computer Science</i> , 2016 , 86-95	0.9	3
406	Power Management and Event Verification in PAPI 2016 , 41-51		8
405	Domain Overlap for Iterative Sparse Triangular Solves on GPUs. <i>Lecture Notes in Computational Science and Engineering</i> , 2016 , 527-545	0.3	5
404	Performance, Design, and Autotuning of Batched GEMM for GPUs. <i>Lecture Notes in Computer Science</i> , 2016 , 21-38	0.9	45
403	Performance optimization of Sparse Matrix-Vector Multiplication for multi-component PDE-based applications using GPUs. <i>Concurrency Computation Practice and Experience</i> , 2016 , 28, 3447-3465	1.4	4
402	Stability and Performance of Various Singular Value QR Implementations on Multicore CPU with a GPU. <i>ACM Transactions on Mathematical Software</i> , 2016 , 43, 1-18	2.3	6
401	Performance-Portable Autotuning of OpenCL Kernels for Convolutional Layers of Deep Neural Networks 2016 ,		4
400	Efficiency of General Krylov Methods on GPUs An Experimental Study 2016 ,		7
399	Towards Achieving Performance Portability Using Directives for Accelerators 2016,		15
398	Failure Detection and Propagation in HPC systems 2016 ,		9

397	Techniques for Solving Large-Scale Graph Problems on Heterogeneous Platforms. <i>Communications in Computer and Information Science</i> , 2016 , 318-332	0.3	
396	LU, QR, and Cholesky factorizations: Programming model, performance analysis and optimization techniques for the Intel Knights Landing Xeon Phi 2016 ,		5
395	Linear algebra software for large-scale accelerated multicore computing*. Acta Numerica, 2016, 25, 1-1	60 5.1	5
394	Batched Generation of Incomplete Sparse Approximate Inverses on GPUs 2016,		4
393	Why is it Hard to Describe Properties of Algorithms?. <i>Procedia Computer Science</i> , 2016 , 101, 4-7	1.6	6
392	Performance analysis and acceleration of explicit integration for large kinetic networks using batched GPU computations 2016 ,		1
391	On the Development of Variable Size Batched Computation for Heterogeneous Parallel Architectures 2016 ,		3
390	Performance Tuning and Optimization Techniques of Fixed and Variable Size Batched Cholesky Factorization on GPUs. <i>Procedia Computer Science</i> , 2016 , 80, 119-130	1.6	6
389	Data through the Computational Lens, Preface for ICCS 2016. <i>Procedia Computer Science</i> , 2016 , 80, 1-7	1.6	4
388	Optimization for performance and energy for batched matrix computations on GPUs 2015 ,		6
387	Energy efficiency and performance frontiers for sparse computations on GPU supercomputers 2015 ,		8
386	Asynchronous Iterative Algorithm for Computing Incomplete Factorizations on GPUs. <i>Lecture Notes in Computer Science</i> , 2015 , 1-16	0.9	15
385	On the Design, Development, and Analysis of Optimized Matrix-Vector Multiplication Routines for Coprocessors. <i>Lecture Notes in Computer Science</i> , 2015 , 58-73	0.9	3
384	Acceleration of GPU-based Krylov solvers via data transfer reduction. <i>International Journal of High Performance Computing Applications</i> , 2015 , 29, 366-383	1.8	12
383	Towards batched linear solvers on accelerated hardware platforms 2015,		10
382	Exascale computing and big data. Communications of the ACM, 2015, 58, 56-68	2.5	236
381	Hierarchical DAG Scheduling for Hybrid Distributed Systems 2015,		20
380	Design for a Soft Error Resilient Dynamic Task-Based Runtime 2015 ,		13

379	Algorithm-Based Fault Tolerance for Dense Matrix Factorizations, Multiple Failures and Accuracy. <i>ACM Transactions on Parallel Computing</i> , 2015 , 1, 1-28	1.4	11
378	Mixing LU and QR factorization algorithms to design high-performance dense linear algebra solvers. <i>Journal of Parallel and Distributed Computing</i> , 2015 , 85, 32-46	4.4	3
377	Fault Tolerance Techniques for High-Performance Computing. <i>Computer Communications and Networks</i> , 2015 , 3-85	0.5	14
376	Iterative Sparse Triangular Solves for Preconditioning. <i>Lecture Notes in Computer Science</i> , 2015 , 650-661	0.9	31
375	Practical scalable consensus for pseudo-synchronous distributed systems 2015,		8
374	Efficient implementation of quantum materials simulations on distributed CPU-GPU systems 2015,		8
373	GPU-accelerated co-design of induced dimension reduction 2015,		2
372	HPC Programming on Intel Many-Integrated-Core Hardware with MAGMA Port to Xeon Phi. <i>Scientific Programming</i> , 2015 , 2015, 1-11	1.4	7
371	Strengthening compute and data intensive capacities of Armenia 2015,		8
370	Performance Analysis and Optimisation of Two-sided Factorization Algorithms for Heterogeneous Platform. <i>Procedia Computer Science</i> , 2015 , 51, 180-190	1.6	1
369	Towards batched linear solvers on accelerated hardware platforms. ACM SIGPLAN Notices, 2015, 50, 261	£262	3
368	Guest Editors Note: Special Issue on Clusters, Clouds and Data for Scientific Computing. <i>Parallel Processing Letters</i> , 2015 , 25, 1502002	0.3	
367	A survey of recent developments in parallel implementations of Gaussian elimination. <i>Concurrency Computation Practice and Experience</i> , 2015 , 27, 1292-1309	1.4	13
366	A scalable approach to solving dense linear algebra problems on hybrid CPU-GPU systems. <i>Concurrency Computation Practice and Experience</i> , 2015 , 27, 3702-3723	1.4	7
365	Experiences in autotuning matrix multiplication for energy minimization on GPUs. <i>Concurrency Computation Practice and Experience</i> , 2015 , 27, 5096-5113	1.4	11
364	Computing Low-Rank Approximation of a Dense Matrix on Multicore CPUs with a GPU and Its Application to Solving a Hierarchically Semiseparable Linear System of Equations. <i>Scientific Programming</i> , 2015 , 2015, 1-17	1.4	
363	Batched matrix computations on hardware accelerators based on GPUs. <i>International Journal of High Performance Computing Applications</i> , 2015 , 29, 193-208	1.8	33
362	Mixed-Precision Cholesky QR Factorization and Its Case Studies on Multicore CPU with Multiple GPUs. <i>SIAM Journal of Scientific Computing</i> , 2015 , 37, C307-C330	2.6	29

361	Weighted dynamic scheduling with many parallelism grains for offloading of numerical workloads to multiple varied accelerators 2015 ,		2	
360	. Computer, 2015 , 48, 42-49	1.6	18	
359	Adaptive precision solvers for sparse linear systems 2015,		6	
358	Tuning stationary iterative solvers for fault resilience 2015 ,		5	
357	PaRSEC in Practice: Optimizing a Legacy Chemistry Application through Distributed Task-Based Execution 2015 ,		12	
356	Mixed-precision block gram Schmidt orthogonalization 2015,		4	
355	Accelerating collaborative filtering using concepts from high performance computing 2015,		20	
354	MAGMA embedded: Towards a dense linear algebra library for energy efficient extreme computing 2015 ,		8	
353	Randomized algorithms to update partial singular value decomposition on a hybrid CPU/GPU cluster 2015 ,		7	
352	Performance of random sampling for computing low-rank approximations of a dense matrix on GPUs 2015 ,		4	
351	Composing resilience techniques: ABFT, periodic and incremental checkpointing. <i>International Journal of Networking and Computing</i> , 2015 , 5, 2-25	0.2	14	
350	Accelerating Computation of Eigenvectors in the Dense Nonsymmetric Eigenvalue Problem. <i>Lecture Notes in Computer Science</i> , 2015 , 182-191	0.9	2	
349	Mixed-Precision Orthogonalization Scheme and Adaptive Step Size for Improving the Stability and Performance of CA-GMRES on GPUs. <i>Lecture Notes in Computer Science</i> , 2015 , 17-30	0.9	3	
348	A Framework for Batched and GPU-Resident Factorization Algorithms Applied to Block Householder Transformations. <i>Lecture Notes in Computer Science</i> , 2015 , 31-47	0.9	13	
347	Self-adaptive Multiprecision Preconditioners on Multicore and Manycore Architectures. <i>Lecture Notes in Computer Science</i> , 2015 , 115-123	0.9		
346	Unified Development for Mixed Multi-GPU and Multi-coprocessor Environments Using a Lightweight Runtime Environment 2014 ,		16	
345	Tridiagonalization of a dense symmetric matrix on multiple GPUs and its application to symmetric eigenvalue problems. <i>Concurrency Computation Practice and Experience</i> , 2014 , 26, 2652-2666	1.4	20	
344	Communication-Avoiding Symmetric-Indefinite Factorization. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2014 , 35, 1364-1406	1.5	8	

343	MIAMI: A framework for application performance diagnosis 2014 ,		5
342	An efficient distributed randomized algorithm for solving large dense symmetric indefinite linear systems. <i>Parallel Computing</i> , 2014 , 40, 213-223	1	9
341	Looking back at dense linear algebra software. <i>Journal of Parallel and Distributed Computing</i> , 2014 , 74, 2548-2560	4.4	7
340	clMAGMA 2014 ,		7
339	Performance and reliability trade-offs for the double checkpointing algorithm. <i>International Journal of Networking and Computing</i> , 2014 , 4, 23-41	0.2	3
338	Design and Implementation of a Large Scale Tree-Based QR Decomposition Using a 3D Virtual Systolic Array and a Lightweight Runtime. <i>Parallel Processing Letters</i> , 2014 , 24, 1442004	0.3	
337	Assessing the Impact of ABFT and Checkpoint Composite Strategies 2014,		8
336	POSTER: Utilizing dataflow-based execution for coupled cluster methods 2014,		3
335	Optimizing Krylov Subspace Solvers on Graphics Processing Units 2014 ,		10
334	PTG: An Abstraction for Unhindered Parallelism 2014 ,		16
333	Dynamically Balanced Synchronization-Avoiding LU Factorization with Multicore and GPUs 2014,		4
332	Access-averse framework for computing low-rank matrix approximations 2014,		2
331	Scaling up matrix computations on shared-memory manycore systems with 1000 CPU cores 2014 ,		6
330	Hybrid Multi-elimination ILU Preconditioners on GPUs 2014 ,		1
329	Performance and Portability with OpenCL for Throughput-Oriented HPC Workloads across Accelerators, Coprocessors, and Multicore Processors 2014 ,		3
328	LU Factorization of Small Matrices: Accelerating Batched DGETRF on the GPU 2014 ,		23
327	Deflation Strategies to Improve the Convergence of Communication-Avoiding GMRES 2014 ,		1

325	Improving the Performance of CA-GMRES on Multicores with Multiple GPUs 2014,		27
324	A Step towards Energy Efficient Computing: Redesigning a Hydrodynamic Application on CPU-GPU 2014 ,		26
323	Unified model for assessing checkpointing protocols at extreme-scale. <i>Concurrency Computation Practice and Experience</i> , 2014 , 26, 2772-2791	1.4	32
322	Parallel Simulation of Superscalar Scheduling 2014 ,		1
321	A Fast Batched Cholesky Factorization on a GPU 2014 ,		16
320	Achieving numerical accuracy and high performance using recursive tile LU factorization with partial pivoting. <i>Concurrency Computation Practice and Experience</i> , 2014 , 26, 1408-1431	1.4	16
319	Power monitoring with PAPI for extreme scale architectures and dataflow-based programming models 2014 ,		12
318	Portable HPC Programming on Intel Many-Integrated-Core Hardware with MAGMA Port to Xeon Phi. <i>Lecture Notes in Computer Science</i> , 2014 , 571-581	0.9	10
317	BlackjackBench: Portable Hardware Characterization with Automated Results' Analysis. <i>Computer Journal</i> , 2014 , 57, 1002-1016	1.3	3
316	A novel hybrid CPULPU generalized eigensolver for electronic structure calculations based on fine-grained memory aware tasks. <i>International Journal of High Performance Computing Applications</i> , 2014 , 28, 196-209	1.8	16
315	Power profiling of Cholesky and QR factorizations on distributed memory systems. <i>Computer Science - Research and Development</i> , 2014 , 29, 139-147		8
314	Accelerating Numerical Dense Linear Algebra Calculations with GPUs 2014 , 3-28		32
313	Optimal Checkpointing Period: Time vs. Energy. Lecture Notes in Computer Science, 2014, 203-214	0.9	5
312	Implementing a Systolic Algorithm for QR Factorization on Multicore Clusters with PaRSEC. <i>Lecture Notes in Computer Science</i> , 2014 , 657-667	0.9	O
311	A block-asynchronous relaxation method for graphics processing units. <i>Journal of Parallel and Distributed Computing</i> , 2013 , 73, 1613-1626	4.4	17
310	Enabling workflows in GridSolve: request sequencing and service trading. <i>Journal of Supercomputing</i> , 2013 , 64, 1133-1152	2.5	
309	An evaluation of User-Level Failure Mitigation support in MPI. <i>Computing (Vienna/New York)</i> , 2013 , 95, 1171-1184	2.2	20
308	Accelerating Linear System Solutions Using Randomization Techniques. <i>ACM Transactions on Mathematical Software</i> , 2013 , 39, 1-13	2.3	18

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