

Jack Dongarra

List of Publications by Year in descending order

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535
papers

22,357
citations

29994

54
h-index

24179

110
g-index

576
all docs

576
docs citations

576
times ranked

8930
citing authors

#	ARTICLE	IF	CITATIONS
1	A set of level 3 basic linear algebra subprograms. ACM Transactions on Mathematical Software, 1990, 16, 1-17.	1.6	1,328
2	PVM., 1994, ,.		1,313
3	Automated empirical optimizations of software and the ATLAS project. Parallel Computing, 2001, 27, 3-35.	1.3	928
4	An extended set of FORTRAN basic linear algebra subprograms. ACM Transactions on Mathematical Software, 1988, 14, 1-17.	1.6	655
5	An updated set of basic linear algebra subprograms (BLAS). ACM Transactions on Mathematical Software, 2002, 28, 135-151.	1.6	504
6	The International Exascale Software Project roadmap. International Journal of High Performance Computing Applications, 2011, 25, 3-60.	2.4	495
7	A class of parallel tiled linear algebra algorithms for multicore architectures. Parallel Computing, 2009, 35, 38-53.	1.3	327
8	Exascale computing and big data. Communications of the ACM, 2015, 58, 56-68.	3.3	322
9	Towards dense linear algebra for hybrid GPU accelerated manycore systems. Parallel Computing, 2010, 36, 232-240.	1.3	295
10	Netsolve: a Network-Enabled Server for Solving Computational Science Problems. International Journal of High Performance Computing Applications, 1997, 11, 212-223.	1.6	265
11	Numerical linear algebra on emerging architectures: The PLASMA and MAGMA projects. Journal of Physics: Conference Series, 2009, 180, 012037.	0.3	245
12	The GrADS Project: Software Support for High-Level Grid Application Development. International Journal of High Performance Computing Applications, 2001, 15, 327-344.	2.4	239
13	Chebyshev tau-QZ algorithm methods for calculating spectra of hydrodynamic stability problems. Applied Numerical Mathematics, 1996, 22, 399-434.	1.2	236
14	Implementing Linear Algebra Algorithms for Dense Matrices on a Vector Pipeline Machine. SIAM Review, 1984, 26, 91-112.	4.2	235
15	Distribution of mathematical software via electronic mail. Communications of the ACM, 1987, 30, 403-407.	3.3	230
16	The PVM concurrent computing system: Evolution, experiences, and trends. Parallel Computing, 1994, 20, 531-545.	1.3	207
17	From CUDA to OpenCL: Towards a performance-portable solution for multi-platform GPU programming. Parallel Computing, 2012, 38, 391-407.	1.3	198
18	DAGuE: A generic distributed DAG engine for High Performance Computing. Parallel Computing, 2012, 38, 37-51.	1.3	196

#	ARTICLE	IF	CITATIONS
19	PaRSEC: Exploiting Heterogeneity to Enhance Scalability. Computing in Science and Engineering, 2013, 15, 36-45.	1.2	192
20	NetSolve. , 1996, , .		191
21	Algorithm 679: A set of level 3 basic linear algebra subprograms: model implementation and test programs. ACM Transactions on Mathematical Software, 1990, 16, 18-28.	1.6	175
22	Collecting Performance Data with PAPI-C. , 2010, , 157-173.		174
23	Algorithm-based fault tolerance applied to high performance computing. Journal of Parallel and Distributed Computing, 2009, 69, 410-416.	2.7	172
24	Dense linear algebra solvers for multicore with GPU accelerators. , 2010, , .		147
25	Post-failure recovery of MPI communication capability. International Journal of High Performance Computing Applications, 2013, 27, 244-254.	2.4	136
26	Accelerating scientific computations with mixed precision algorithms. Computer Physics Communications, 2009, 180, 2526-2533.	3.0	134
27	An Improved Magma Gemm For Fermi Graphics Processing Units. International Journal of High Performance Computing Applications, 2010, 24, 511-515.	2.4	132
28	New Grid Scheduling and Rescheduling Methods in the GrADS Project. International Journal of Parallel Programming, 2005, 33, 209-229.	1.1	127
29	Performance analysis of MPI collective operations. Cluster Computing, 2007, 10, 127-143.	3.5	126
30	Condition Numbers of Gaussian Random Matrices. SIAM Journal on Matrix Analysis and Applications, 2005, 27, 603-620.	0.7	116
31	Overview of GridRPC: A Remote Procedure Call API for Grid Computing. Lecture Notes in Computer Science, 2002, , 274-278.	1.0	114
32	ScaLAPACK: a portable linear algebra library for distributed memory computers " design issues and performance. Computer Physics Communications, 1996, 97, 1-15.	3.0	112
33	A Note on Auto-tuning GEMM for GPUs. Lecture Notes in Computer Science, 2009, , 884-892.	1.0	107
34	Software Libraries for Linear Algebra Computations on High Performance Computers. SIAM Review, 1995, 37, 151-180.	4.2	104
35	Harnessing GPU Tensor Cores for Fast FP16 Arithmetic to Speed up Mixed-Precision Iterative Refinement Solvers. , 2018, , .		104
36	Block reduction of matrices to condensed forms for eigenvalue computations. Journal of Computational and Applied Mathematics, 1989, 27, 215-227.	1.1	100

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37	Integrated Pvm Framework Supports Heterogeneous Network Computing. Computers in Physics, 1993, 7, 166-175.	0.6	99
38	Mixed Precision Iterative Refinement Techniques for the Solution of Dense Linear Systems. International Journal of High Performance Computing Applications, 2007, 21, 457-466.	2.4	99
39	Pumma: Parallel universal matrix multiplication algorithms on distributed memory concurrent computers. Concurrency and Computation: Practice and Experience, 1994, 6, 543-570.	0.6	98
40	Flexible Development of Dense Linear Algebra Algorithms on Massively Parallel Architectures with DPLASMA. , 2011, , .		95
41	Keeneland: Bringing Heterogeneous GPU Computing to the Computational Science Community. Computing in Science and Engineering, 2011, 13, 90-95.	1.2	93
42	High-performance conjugate-gradient benchmark: A new metric for ranking high-performance computing systems. International Journal of High Performance Computing Applications, 2016, 30, 3-10.	2.4	93
43	Parallel tiled QR factorization for multicore architectures. Concurrency Computation Practice and Experience, 2008, 20, 1573-1590.	1.4	92
44	Algorithm-Based Fault Tolerance for Fail-Stop Failures. IEEE Transactions on Parallel and Distributed Systems, 2008, 19, 1628-1641.	4.0	92
45	Big data and extreme-scale computing. International Journal of High Performance Computing Applications, 2018, 32, 435-479.	2.4	90
46	Unrolling loops in fortran. Software - Practice and Experience, 1979, 9, 219-226.	2.5	88
47	Autotuning GEMM Kernels for the Fermi GPU. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 2045-2057.	4.0	85
48	Scheduling workflow applications on processors with different capabilities. Future Generation Computer Systems, 2006, 22, 665-675.	4.9	79
49	Solving Systems of Linear Equations on the CELL Processor Using Cholesky Factorization. IEEE Transactions on Parallel and Distributed Systems, 2008, 19, 1175-1186.	4.0	78
50	High-performance bidiagonal reduction using tile algorithms on homogeneous multicore architectures. ACM Transactions on Mathematical Software, 2013, 39, 1-22.	1.6	74
51	Improving the Accuracy of Computed Eigenvalues and Eigenvectors. SIAM Journal on Numerical Analysis, 1983, 20, 23-45.	1.1	73
52	Autotuning in High-Performance Computing Applications. Proceedings of the IEEE, 2018, 106, 2068-2083.	16.4	72
53	Visualization and debugging in a heterogeneous environment. Computer, 1993, 26, 88-95.	1.2	70
54	Performance, Design, and Autotuning of Batched GEMM for GPUs. Lecture Notes in Computer Science, 2016, , 21-38.	1.0	70

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55	On some parallel banded system solvers. <i>Parallel Computing</i> , 1984, 1, 223-235.	1.3	69
56	Preface: Basic Linear Algebra Subprograms Technical (Blast) Forum Standard. <i>International Journal of High Performance Computing Applications</i> , 2002, 16, 1-1.	2.4	69
57	Exploiting the Performance of 32 bit Floating Point Arithmetic in Obtaining 64 bit Accuracy (Revisiting) <i>TJ ETQq1 1 0.784314 rgBT /O</i>	0.9	69
58	Applying NetSolve's network-enabled server. <i>IEEE Computational Science and Engineering</i> , 1998, 5, 57-67.	0.6	68
59	Algorithm-based fault tolerance for dense matrix factorizations. , 2012, , .		67
60	Using Mixed Precision for Sparse Matrix Computations to Enhance the Performance while Achieving 64-bit Accuracy. <i>ACM Transactions on Mathematical Software</i> , 2008, 34, 1-22.	1.6	65
61	QR Factorization on a Multicore Node Enhanced with Multiple GPU Accelerators. , 2011, , .		65
62	Enabling and scaling matrix computations on heterogeneous multi-core and multi-GPU systems. , 2012, , .		64
63	A Parallel Divide and Conquer Algorithm for the Symmetric Eigenvalue Problem on Distributed Memory Architectures. <i>SIAM Journal of Scientific Computing</i> , 1999, 20, 2223-2236.	1.3	63
64	Dynamic task scheduling for linear algebra algorithms on distributed-memory multicore systems. , 2009, , .		63
65	Standards for graph algorithm primitives. , 2013, , .		63
66	Numerical Libraries and the Grid. <i>International Journal of High Performance Computing Applications</i> , 2001, 15, 359-374.	2.4	61
67	Fault tolerant high performance computing by a coding approach. , 2005, , .		61
68	A survey of numerical linear algebra methods utilizing mixed-precision arithmetic. <i>International Journal of High Performance Computing Applications</i> , 2021, 35, 344-369.	2.4	61
69	A proposal for a set of parallel basic linear algebra subprograms. <i>Lecture Notes in Computer Science</i> , 1996, , 107-114.	1.0	59
70	Scheduling block-cyclic array redistribution. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 1998, 9, 192-205.	4.0	59
71	DAGuE: A Generic Distributed DAG Engine for High Performance Computing. , 2011, , .		57
72	The Singular Value Decomposition: Anatomy of Optimizing an Algorithm for Extreme Scale. <i>SIAM Review</i> , 2018, 60, 808-865.	4.2	57

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73	The Impact of Multicore on Math Software. , 2006, , 1-10.		57
74	Visual programming and debugging for parallel computing. IEEE Parallel and Distributed Technology, 1995, 3, 75-83.	0.7	56
75	HARNESS: a next generation distributed virtual machine. Future Generation Computer Systems, 1999, 15, 571-582.	4.9	56
76	The International Exascale Software Project: a Call To Cooperative Action By the Global High-Performance Community. International Journal of High Performance Computing Applications, 2009, 23, 309-322.	2.4	56
77	A tool to aid in the design, implementation, and understanding of matrix algorithms for parallel processors. Journal of Parallel and Distributed Computing, 1990, 9, 185-202.	2.7	55
78	Scalability Issues Affecting the Design of a Dense Linear Algebra Library. Journal of Parallel and Distributed Computing, 1994, 22, 523-537.	2.7	55
79	Optimizing matrix multiplication for a short-vector SIMD architecture â€œ CELL processor. Parallel Computing, 2009, 35, 138-150.	1.3	53
80	Scheduling dense linear algebra operations on multicore processors. Concurrency Computation Practice and Experience, 2010, 22, 15-44.	1.4	53
81	Accelerating the reduction to upper Hessenberg, tridiagonal, and bidiagonal forms through hybrid GPU-based computing. Parallel Computing, 2010, 36, 645-654.	1.3	53
82	Towards Efficient MapReduce Using MPI. Lecture Notes in Computer Science, 2009, , 240-249.	1.0	53
83	Accelerating Numerical Dense Linear Algebra Calculations with GPUs. , 2014, , 3-28.		52
84	Implementation of some concurrent algorithms for matrix factorization. Parallel Computing, 1986, 3, 25-34.	1.3	51
85	HARNESS and fault tolerant MPI. Parallel Computing, 2001, 27, 1479-1495.	1.3	50
86	The Design and Performance of Batched BLAS on Modern High-Performance Computing Systems. Procedia Computer Science, 2017, 108, 495-504.	1.2	50
87	The design and implementation of the parallel out-of-core ScaLAPACK LU, QR, and Cholesky factorization routines. Concurrency and Computation: Practice and Experience, 2000, 12, 1481-1493.	0.6	49
88	High-performance computing systems: Status and outlook. Acta Numerica, 2012, 21, 379-474.	6.3	48
89	Batched matrix computations on hardware accelerators based on GPUs. International Journal of High Performance Computing Applications, 2015, 29, 193-208.	2.4	48
90	Implementation of mixed precision in solving systems of linear equations on the Cell processor. Concurrency Computation Practice and Experience, 2007, 19, 1371-1385.	1.4	47

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91	Solving banded systems on a parallel processor. <i>Parallel Computing</i> , 1987, 5, 219-246.	1.3	46
92	Iterative Sparse Triangular Solves for Preconditioning. <i>Lecture Notes in Computer Science</i> , 2015, , 650-661.	1.0	46
93	Reduction to condensed form for the Eigenvalue problem on distributed memory architectures. <i>Parallel Computing</i> , 1992, 18, 973-982.	1.3	45
94	Fault-Tolerant Matrix Operations for Networks of Workstations Using Diskless Checkpointing. <i>Journal of Parallel and Distributed Computing</i> , 1997, 43, 125-138.	2.7	44
95	Telescoping Languages: A Strategy for Automatic Generation of Scientific Problem-Solving Systems from Annotated Libraries. <i>Journal of Parallel and Distributed Computing</i> , 2001, 61, 1803-1826.	2.7	43
96	Dynamic task discovery in ParSEC. , 2017, , .		43
97	Multiprocessing linear algebra algorithms on the CRAY X-MP-2: Experiences with small granularity. <i>Journal of Parallel and Distributed Computing</i> , 1984, 1, 22-31.	2.7	42
98	SLATE. , 2019, , .		42
99	Computer benchmarking: Paths and pitfalls: The most popular way of rating computer performance can confuse as well as inform; avoid misunderstanding by asking just what the benchmark is measuring. <i>IEEE Spectrum</i> , 1987, 24, 38-43.	0.5	41
100	Self-adapting software for numerical linear algebra and LAPACK for clusters. <i>Parallel Computing</i> , 2003, 29, 1723-1743.	1.3	41
101	Adaptive precision in block-Jacobi preconditioning for iterative sparse linear system solvers. <i>Concurrency Computation Practice and Experience</i> , 2019, 31, e4460.	1.4	41
102	Unified model for assessing checkpointing protocols at extreme-scale. <i>Concurrency Computation Practice and Experience</i> , 2014, 26, 2772-2791.	1.4	40
103	Squeezing the most out of eigenvalue solvers on high-performance computers. <i>Linear Algebra and Its Applications</i> , 1986, 77, 113-136.	0.4	39
104	Recovery Patterns for Iterative Methods in a Parallel Unstable Environment. <i>SIAM Journal of Scientific Computing</i> , 2008, 30, 102-116.	1.3	38
105	A Parallel Algorithm for the Nonsymmetric Eigenvalue Problem. <i>SIAM Journal of Scientific Computing</i> , 1993, 14, 542-569.	1.3	37
106	Algorithmic redistribution methods for block-cyclic decompositions. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 1999, 10, 1201-1216.	4.0	37
107	Energy Footprint of Advanced Dense Numerical Linear Algebra Using Tile Algorithms on Multicore Architectures. , 2012, , .		37
108	Investigating half precision arithmetic to accelerate dense linear system solvers. , 2017, , .		37

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109	Innovations of the NetSolve Grid Computing System. Concurrency Computation Practice and Experience, 2002, 14, 1457-1479.	1.4	36
110	Mixed-Precision Cholesky QR Factorization and Its Case Studies on Multicore CPU with Multiple GPUs. SIAM Journal of Scientific Computing, 2015, 37, C307-C330.	1.3	36
111	Fault Tolerance Techniques for High-Performance Computing. Computer Communications and Networks, 2015, , 3-85.	0.8	36
112	Improving the Performance of CA-GMRES on Multicores with Multiple GPUs. , 2014, , .		35
113	A Step towards Energy Efficient Computing: Redesigning a Hydrodynamic Application on CPU-GPU. , 2014, , .		35
114	Incomplete Sparse Approximate Inverses for Parallel Preconditioning. Parallel Computing, 2018, 71, 1-22.	1.3	35
115	Hierarchical DAG Scheduling for Hybrid Distributed Systems. , 2015, , .		34
116	A portable environment for developing parallel FORTRAN programs. Parallel Computing, 1987, 5, 175-186.	1.3	33
117	MPI collective algorithm selection and quadtree encoding. Parallel Computing, 2007, 33, 613-623.	1.3	33
118	LU factorization for accelerator-based systems. , 2011, , .		33
119	A comparison of search heuristics for empirical code optimization. , 2008, , .		32
120	Netlib and NA-Net: Building a Scientific Computing Community. IEEE Annals of the History of Computing, 2008, 30, 30-41.	0.2	32
121	Highly Scalable Self-Healing Algorithms for High Performance Scientific Computing. IEEE Transactions on Computers, 2009, 58, 1512-1524.	2.4	32
122	Optimizing symmetric dense matrix-vector multiplication on GPUs. , 2011, , .		32
123	LU Factorization of Small Matrices: Accelerating Batched DGETRF on the GPU. , 2014, , .		32
124	NetSolve: Past, Present, and Future – A Look at a Grid Enabled Server. , 0, , 615-624.		31
125	Redesigning the message logging model for high performance. Concurrency Computation Practice and Experience, 2010, 22, 2196-2211.	1.4	31
126	QR factorization of tall and skinny matrices in a grid computing environment. , 2010, , .		31

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127	Parallel reduction to condensed forms for symmetric eigenvalue problems using aggregated fine-grained and memory-aware kernels. , 2011, , .		31
128	A scalable framework for heterogeneous GPU-based clusters. , 2012, , .		31
129	Algorithm-based fault tolerance for dense matrix factorizations. ACM SIGPLAN Notices, 2012, 47, 225-234.	0.2	31
130	PTG: An Abstraction for Unhindered Parallelism. , 2014, , .		31
131	The TOP500 List and Progress in High-Performance Computing. Computer, 2015, 48, 42-49.	1.2	31
132	Preconditioned Krylov solvers on GPUs. Parallel Computing, 2017, 68, 32-44.	1.3	31
133	Recent Developments in Gridsolve. International Journal of High Performance Computing Applications, 2006, 20, 131-141.	2.4	30
134	A parallel algorithm for the reduction of a nonsymmetric matrix to block upper-Hessenberg form. Parallel Computing, 1995, 21, 1189-1211.	1.3	29
135	Parallel matrix transpose algorithms on distributed memory concurrent computers. Parallel Computing, 1995, 21, 1387-1405.	1.3	29
136	The Spectral Decomposition of Nonsymmetric Matrices on Distributed Memory Parallel Computers. SIAM Journal of Scientific Computing, 1997, 18, 1446-1461.	1.3	29
137	ALGORITHMIC ISSUES ON HETEROGENEOUS COMPUTING PLATFORMS. Parallel Processing Letters, 1999, 09, 197-213.	0.4	29
138	High-performance high-resolution semi-Lagrangian tracer transport on a sphere. Journal of Computational Physics, 2011, 230, 6778-6799.	1.9	29
139	Implementation and Tuning of Batched Cholesky Factorization and Solve for NVIDIA GPUs. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 2036-2048.	4.0	29
140	The Design of Fast and Energy-Efficient Linear Solvers: On the Potential of Half-Precision Arithmetic and Iterative Refinement Techniques. Lecture Notes in Computer Science, 2018, , 586-600.	1.0	29
141	A comparative study of automatic vectorizing compilers. Parallel Computing, 1991, 17, 1223-1244.	1.3	28
142	Numerical Considerations in Computing Invariant Subspaces. SIAM Journal on Matrix Analysis and Applications, 1992, 13, 145-161.	0.7	28
143	Two-Stage Tridiagonal Reduction for Dense Symmetric Matrices Using Tile Algorithms on Multicore Architectures. , 2011, , .		28
144	The Netlib Mathematical Software Repository. D-Lib Magazine, 1995, 1, .	0.5	28

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145	A collection of parallel linear equations routines for the Denelcor HEP. <i>Parallel Computing</i> , 1984, 1, 133-142.	1.3	27
146	Java access to numerical libraries. <i>Concurrency and Computation: Practice and Experience</i> , 1997, 9, 1279-1291.	0.6	27
147	The marketplace of high-performance computing. <i>Parallel Computing</i> , 1999, 25, 1517-1544.	1.3	27
148	The quest for petascale computing. <i>Computing in Science and Engineering</i> , 2001, 3, 32-39.	1.2	27
149	A Parallel Implementation of the Nonsymmetric QR Algorithm for Distributed Memory Architectures. <i>SIAM Journal of Scientific Computing</i> , 2002, 24, 284-311.	1.3	27
150	Recent trends in the marketplace of high performance computing. <i>Parallel Computing</i> , 2005, 31, 261-273.	1.3	27
151	Sunway TaihuLight supercomputer makes its appearance. <i>National Science Review</i> , 2016, 3, 265-266.	4.6	27
152	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.	2.7	27
153	Investigating power capping toward energy-efficient scientific applications. <i>Concurrency Computation Practice and Experience</i> , 2019, 31, e4485.	1.4	27
154	Algorithmic bombardment for the iterative solution of linear systems: A poly-iterative approach. <i>Journal of Computational and Applied Mathematics</i> , 1996, 74, 91-109.	1.1	26
155	Accelerating GPU Kernels for Dense Linear Algebra. <i>Lecture Notes in Computer Science</i> , 2011, , 83-92.	1.0	26
156	An evaluation of User-Level Failure Mitigation support in MPI. <i>Computing (Vienna/New York)</i> , 2013, 95, 1171-1184.	3.2	26
157	Race to Exascale. <i>Computing in Science and Engineering</i> , 2019, 21, 4-5.	1.2	26
158	Request Sequencing: Optimizing Communication for the Grid. <i>Lecture Notes in Computer Science</i> , 2000, , 1213-1222.	1.0	26
159	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.	1.0	26
160	Numerical linear algebra algorithms and software. <i>Journal of Computational and Applied Mathematics</i> , 2000, 123, 489-514.	1.1	25
161	State-of-the-art eigensolvers for electronic structure calculations of large scale nano-systems. <i>Journal of Computational Physics</i> , 2008, 227, 7113-7124.	1.9	25
162	Hierarchical QR factorization algorithms for multi-core clusters. <i>Parallel Computing</i> , 2013, 39, 212-232.	1.3	25

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163	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	25
164	Accelerating collaborative filtering using concepts from high performance computing. , 2015, , .		25
165	Porting the PLASMA Numerical Library to the OpenMP Standard. <i>International Journal of Parallel Programming</i> , 2017, 45, 612-633.	1.1	25
166	The eigenvalue problem for Hermitian matrices with time reversal symmetry. <i>Linear Algebra and Its Applications</i> , 1984, 60, 27-42.	0.4	24
167	Linear algebra on high performance computers. <i>Applied Mathematics and Computation</i> , 1986, 20, 57-88.	1.4	24
168	Parallel loops “A test suite for parallelizing compilers: Description and example results. <i>Parallel Computing</i> , 1991, 17, 1247-1255.	1.3	24
169	Tools and techniques for performance—Exploiting the performance of 32 bit floating point arithmetic in obtaining 64 bit accuracy (revisiting iterative refinement for linear systems). , 2006, , .		24
170	The PlayStation 3 for High-Performance Scientific Computing. <i>Computing in Science and Engineering</i> , 2008, 10, 84-87.	1.2	24
171	DARPA's HPCS Program: History, Models, Tools, Languages. <i>Advances in Computers</i> , 2008, , 1-100.	1.2	24
172	Scalable Tile Communication-Avoiding QR Factorization on Multicore Cluster Systems. , 2010, , .		24
173	A new metric for ranking high-performance computing systems. <i>National Science Review</i> , 2016, 3, 30-35.	4.6	24
174	Efficient exascale discretizations: High-order finite element methods. <i>International Journal of High Performance Computing Applications</i> , 2021, 35, 527-552.	2.4	24
175	Extreme-Scale Task-Based Cholesky Factorization Toward Climate and Weather Prediction Applications. , 2020, , .		24
176	Numerical libraries and the grid. , 2001, , .		23
177	QR Factorization for the Cell Broadband Engine. <i>Scientific Programming</i> , 2009, 17, 31-42.	0.5	23
178	HierKNEM: An Adaptive Framework for Kernel-Assisted and Topology-Aware Collective Communications on Many-core Clusters. , 2012, , .		23
179	A Fast Batched Cholesky Factorization on a GPU. , 2014, , .		23
180	A novel hybrid CPU“GPU 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.	2.4	23

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181	Unified Development for Mixed Multi-GPU and Multi-coprocessor Environments Using a Lightweight Runtime Environment. , 2014, , .		23
182	Recent Enhancements To Pvm. International Journal of High Performance Computing Applications, 1995, 9, 108-127.	1.6	22
183	Static tiling for heterogeneous computing platforms. Parallel Computing, 1999, 25, 547-568.	1.3	22
184	The Virtual Instrument: Support for Grid-Enabled Mcell Simulations. International Journal of High Performance Computing Applications, 2004, 18, 3-17.	2.4	22
185	NetSolve: Grid enabling scientific computing environments. Advances in Parallel Computing, 2005, 14, 33-51.	0.3	22
186	Tile QR factorization with parallel panel processing for multicore architectures. , 2010, , .		22
187	High Performance Dense Linear System Solver with Soft Error Resilience. , 2011, , .		22
188	Tridiagonalization of a dense symmetric matrix on multiple GPUs and its application to symmetric eigenvalue problems. Concurrency Computation Practice and Experience, 2014, 26, 2652-2666.	1.4	22
189	Binomial Graph: A Scalable and Fault-Tolerant Logical Network Topology. Lecture Notes in Computer Science, 2007, , 471-482.	1.0	22
190	Load-balancing Sparse Matrix Vector Product Kernels on GPUs. ACM Transactions on Parallel Computing, 2020, 7, 1-26.	1.2	22
191	Exploring New Architectures in Accelerating CFD for Air Force Applications. , 2008, , .		21
192	A Class of Hybrid LAPACK Algorithms for Multicore and GPU Architectures. , 2011, , .		21
193	Analysis of dynamically scheduled tile algorithms for dense linear algebra on multicore architectures. Concurrency Computation Practice and Experience, 2012, 24, 305-321.	1.4	21
194	With Extreme Computing, the Rules Have Changed. Computing in Science and Engineering, 2017, 19, 52-62.	1.2	21
195	Dynamic Reconfiguration and Virtual Machine Management in the Harness Metacomputing System. Lecture Notes in Computer Science, 1998, , 127-134.	1.0	21
196	Key concepts for parallel out-of-core LU factorization. Parallel Computing, 1997, 23, 49-70.	1.3	20
197	Deploying fault tolerance and tasks migration with NetSolve. Future Generation Computer Systems, 1999, 15, 745-755.	4.9	20
198	Numerically Stable Real Number Codes Based on Random Matrices. Lecture Notes in Computer Science, 2005, , 115-122.	1.0	20

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199	High performance matrix inversion based on LU factorization for multicore architectures. , 2011, , .		20
200	Divide and Conquer on Hybrid GPU-Accelerated Multicore Systems. SIAM Journal of Scientific Computing, 2012, 34, C70-C82.	1.3	20
201	Accelerating Linear System Solutions Using Randomization Techniques. ACM Transactions on Mathematical Software, 2013, 39, 1-13.	1.6	20
202	Asynchronous Iterative Algorithm for Computing Incomplete Factorizations on GPUs. Lecture Notes in Computer Science, 2015, , 1-16.	1.0	20
203	ParILUT--A New Parallel Threshold ILU Factorization. SIAM Journal of Scientific Computing, 2018, 40, C503-C519.	1.3	20
204	Fast Batched Matrix Multiplication for Small Sizes Using Half-Precision Arithmetic on GPUs. , 2019, , .		20
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