Lin Gan

List of Publications by Year
in descending order

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41	2,023	949033	591227
papers	citations	11 h-index	27 g-index

41	41	41	2061
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Benchmarking 50-Photon Gaussian Boson Sampling on the Sunway TaihuLight. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 1357-1372.	4.0	4
2	Enabling Large-Scale Simulation of CAM on the Sunway TaihuLight Supercomputer. IEEE Transactions on Computers, 2022, 71, 824-837.	2.4	4
3	High-Resolution Land Cover Mapping Through Learning With Noise Correction. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	9
4	Optimization of Reactive Force Field Simulation: Refactor, Parallelization, and Vectorization for Interactions. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 359-373.	4.0	4
5	Detection of Burst Users and Symbols for Grant-Free Communication in the Presence of Massive Connected Users. IEEE Transactions on Vehicular Technology, 2022, 71, 7973-7978.	3.9	0
6	Translating novel HPC techniques into efficient geoscience solutions. Journal of Computational Science, 2021, 52, 101212.	1.5	2
7	The Deep Learning Compiler: A Comprehensive Survey. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 708-727.	4.0	83
8	Towards efficient tile low-rank GEMM computation on sunway many-core processors. Journal of Supercomputing, 2021, 77, 4533-4564.	2.4	2
9	Input-aware Sparse Tensor Storage Format Selection for Optimizing MTTKRP. IEEE Transactions on Computers, 2021, , 1-1.	2.4	5
10	Towards efficient canonical polyadic decomposition on sunway many-core processor. Information Sciences, 2021, 549, 221-248.	4.0	2
11	Phase-Programmable Gaussian Boson Sampling Using Stimulated Squeezed Light. Physical Review Letters, 2021, 127, 180502.	2.9	208
12	Critique of â€œMemXCT: memory-centric X-ray CT reconstruction with massive parallelizationâ€•by SCC Team from Tsinghua University. IEEE Transactions on Parallel and Distributed Systems, 2021, , 1-1.	4.0	0
13	Oil palm plantation mapping from high-resolution remote sensing images using deep learning. International Journal of Remote Sensing, 2020, 41, 2022-2046.	1.3	25
14	Accelerating Sparse Cholesky Factorization on Sunway Manycore Architecture. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 1636-1650.	4.0	9
15	Millimeter-Scale and Billion-Atom Reactive Force Field Simulation on Sunway Taihulight. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 2954-2967.	4.0	12
16	Improving 3-m Resolution Land Cover Mapping through Efficient Learning from an Imperfect 10-m Resolution Map. Remote Sensing, 2020, 12, 1418.	1.8	14
17	Tuning a general purpose software cache library for TaihuLightâ€™s SW26010 processor. CCF Transactions on High Performance Computing, 2020, 2, 164-182.	1.1	2
18	High performance reconfigurable computing for numerical simulation and deep learning. CCF Transactions on High Performance Computing, 2020, 2, 196-208.	1.1	2

#	Article	IF	Citations
19	Quantum-Teleportation-Inspired Algorithm for Sampling Large Random Quantum Circuits. Physical Review Letters, 2020, 124, 080502.	2.9	14
20	Quantum computational advantage using photons. Science, 2020, 370, 1460-1463.	6.0	1,250
21	Optimizing Finite Volume Method Solvers on Nvidia GPUs. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 2790-2805.	4.0	10
22	Million-Core-Scalable Simulation of the Elastic Migration Algorithm on Sunway TaihuLight Supercomputer. , 2019, , .		4
23	swTensor: accelerating tensor decomposition on Sunway architecture. CCF Transactions on High Performance Computing, 2019, 1, 161-176.	1.1	2
24	SW_GROMACS. , 2019, , .		16
25	Simulating the Wenchuan Earthquake with Accurate Surface Topography on Sunway TaihuLight. , 2018, , .		22
26	Redesigning LAMMPS for Peta-Scale and Hundred-Billion-Atom Simulation on Sunway TaihuLight. , 2018, , .		44
27	Performance Tuning and Analysis for Stencil-Based Applications on POWER8 Processor. Transactions on Architecture and Code Optimization, 2018, 15, 1-25.	1.6	7
28	Redesigning CAM-SE for peta-scale climate modeling performance and ultra-high resolution on Sunway TaihuLight. , 2017, , .		41
29	Solving global shallow water equations on heterogeneous supercomputers. PLoS ONE, 2017, 12, e0172583.	1.1	2
30	SW-AES: Accelerating AES Algorithm on the Sunway TaihuLight. , 2017, , .		3
31	Solving Mesoscale Atmospheric Dynamics Using a Reconfigurable Dataflow Architecture. IEEE Micro, 2017, 37, 40-50.	1.8	12
32	10M-Core Scalable Fully-Implicit Solver for Nonhydrostatic Atmospheric Dynamics. , 2016, , .		69
33	Generalized GPU Acceleration for Applications Employing Finite-Volume Methods. , 2016, , .		3
34	Ultra-Scalable CPU-MIC Acceleration of Mesoscale Atmospheric Modeling on Tianhe-2. IEEE Transactions on Computers, 2015, 64, 2382-2393.	2.4	49
35	Optimizing Residue Number Reverse Converters through Bitwise Arithmetic on FPGAs. , 2015, , .		0
36	Solving the Global Atmospheric Equations through Heterogeneous Reconfigurable Platforms. ACM Transactions on Reconfigurable Technology and Systems, 2015, 8, 1-16.	1.9	13

#	Article	IF	Citations
37	A highly-efficient and green data flow engine for solving euler atmospheric equations. , 2014, , .		16
38	Evaluating multi-core and many-core architectures through accelerating the three-dimensional Laxâ€“Wendroff correction stencil. International Journal of High Performance Computing Applications, 2014, 28, 301-318.	2.4	9
39	Enabling and Scaling a Global Shallow-Water Atmospheric Model on Tianhe-2. , 2014, , .		36
40	Global Atmospheric Simulation on a Reconfigurable Platform. , 2013, , .		0
41	A peta-scalable CPU-GPU algorithm for global atmospheric simulations. ACM SIGPLAN Notices, 2013, 48, 1-12.	0.2	14