Guangwen Yang

List of Publications by Year
in descending order

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32 papers	2,491 citations	759055 12 h-index	642610 23 g-index
33 all docs	33 docs citations	33 times ranked	2827 citing authors

#	Article	IF	Citations
1	Quantum computational advantage using photons. Science, 2020, 370, 1460-1463.	6.0	1,250
2	The Sunway TaihuLight supercomputer: system and applications. Science China Information Sciences, 2016, 59, 1.	2.7	340
3	The flexible global ocean-atmosphere-land system model, Grid-point Version 2: FGOALS-g2. Advances in Atmospheric Sciences, 2013, 30, 543-560.	1.9	253
4	Phase-Programmable Gaussian Boson Sampling Using Stimulated Squeezed Light. Physical Review Letters, 2021, 127, 180502.	2.9	208
5	Evaluation of grid-point atmospheric model of IAP LASG version 2 (GAMIL2). Advances in Atmospheric Sciences, 2013, 30, 855-867.	1.9	75
6	Community Integrated Earth System Model (CIESM): Description and Evaluation. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002036.	1.3	44
7	Redesigning CAM-SE for peta-scale climate modeling performance and ultra-high resolution on Sunway TaihuLight. , 2017, , .		41
8	A particle-filter framework for robust cryo-EM 3D reconstruction. Nature Methods, 2018, 15, 1083-1089.	9.0	41
9	Optimizing high-resolution Community Earth System Model on a heterogeneous many-core supercomputing platform. Geoscientific Model Development, 2020, 13, 4809-4829.	1.3	30
10	Refactoring and Optimizing the Community Atmosphere Model (CAM) on the Sunway TaihuLight Supercomputer. , 2016, , .		27
11	Scaling Support Vector Machines on modern HPC platforms. Journal of Parallel and Distributed Computing, 2015, 76, 16-31.	2.7	25
12	C-Coupler2: a flexible and user-friendly community coupler for model coupling and nesting. Geoscientific Model Development, 2018, 11, 3557-3586.	1.3	25
13	A parallel finite-element time-domain method for transient electromagnetic simulation. Geophysics, 2015, 80, E213-E224.	1.4	22
14	P-CSI v1.0, an accelerated barotropic solver for the high-resolution ocean model component in the Community Earth System Model v2.0. Geoscientific Model Development, 2016, 9, 4209-4225.	1.3	15
15	Improving the scalability of the ocean barotropic solver in the community earth system model. , 2015, , .		13
16	Scaling and analyzing the stencil performance on multi-core and many-core architectures. , 2014, , .		11
17	Evaluating statistical consistency in the ocean model component of the Community Earth System Model (pyCECT v2.0). Geoscientific Model Development, 2016, 9, 2391-2406.	1.3	10
18	An improved optimal nearly analytical discretized method for 2D scalar wave equation in heterogeneous media based on the modified nearly analytical discrete operator. Geophysics, 2014, 79, T349-T362.	1.4	9

#	Article	IF	Citations
19	Improving Parallel Performance of a Finite-Difference AGCM on Modern High-Performance Computers. Journal of Atmospheric and Oceanic Technology, 2014, 31, 2157-2168.	0.5	9
20	Accelerating the 3D Elastic Wave Forward Modeling on GPU and MIC. , 2013, , .		7
21	Revisiting finite difference and spectral migration methods on diverse parallel architectures. Computers and Geosciences, 2012, 43, 187-196.	2.0	6
22	A Fast Sparse Triangular Solver for Structured-grid Problems on Sunway Many-core Processor SW26010. , 2018, , .		6
23	Benchmarking 50-Photon Gaussian Boson Sampling on the Sunway TaihuLight. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 1357-1372.	4.0	4
24	Enabling Large-Scale Simulation of CAM on the Sunway TaihuLight Supercomputer. IEEE Transactions on Computers, 2022, 71, 824-837.	2.4	4
25	A Scalable Barotropic Mode Solver for the Parallel Ocean Program. Lecture Notes in Computer Science, 2013, , 739-750.	1.0	4
26	An NAD Scheme with Wavenumber Error Optimized for 2D Scalar Wave Equation. Bulletin of the Seismological Society of America, 2016, 106, 189-203.	1.1	3
27	An optimized time-space-domain finite difference method with piecewise constant interpolation coefficients for scalar wave propagation. Journal of Geophysics and Engineering, 2019, 16, 309-324.	0.7	2
28	A new adaptive data transfer library for model coupling. Geoscientific Model Development, 2016, 9, 2099-2113.	1.3	1
29	Designing and implementing a heuristic cross-architecture combination for graph traversal. Journal of Parallel and Distributed Computing, 2017, 108, 95-105.	2.7	1
30	Parallelizing cryo-EM 3D reconstruction on GPU cluster with a partitioned and streamed model. , 2019, , .		1
31	Large-scale Parallel Design for Cryo-EM Structure Determination on Heterogeneous Many-core Architectures. , 2019, , .		1
32	CSAP: A Performance Predictor for Climate Simulation Applications on Intel CPUs. Lecture Notes in Computer Science, 2015, , 308-328.	1.0	0