

Guangwen Yang

List of Publications by Year in descending order

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papers

2,491
citations

858243

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docs citations

33
times ranked

3209
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	Phase-Programmable Gaussian Boson Sampling Using Stimulated Squeezed Light. Physical Review Letters, 2021, 127, 180502.	2.9	208
4	Community Integrated Earth System Model (CIESM): Description and Evaluation. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002036.	1.3	44
5	Quantum computational advantage using photons. Science, 2020, 370, 1460-1463.	6.0	1,250
6	Optimizing high-resolution Community Earth System Model on a heterogeneous many-core supercomputing platform. Geoscientific Model Development, 2020, 13, 4809-4829.	1.3	30
7	Parallelizing cryo-EM 3D reconstruction on GPU cluster with a partitioned and streamed model. , 2019, , .		1
8	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
9	Large-scale Parallel Design for Cryo-EM Structure Determination on Heterogeneous Many-core Architectures. , 2019, , .		1
10	A particle-filter framework for robust cryo-EM 3D reconstruction. Nature Methods, 2018, 15, 1083-1089.	9.0	41
11	C-Coupler2: a flexible and user-friendly community coupler for model coupling and nesting. Geoscientific Model Development, 2018, 11, 3557-3586.	1.3	25
12	A Fast Sparse Triangular Solver for Structured-grid Problems on Sunway Many-core Processor SW26010. , 2018, , .		6
13	Redesigning CAM-SE for peta-scale climate modeling performance and ultra-high resolution on Sunway TaihuLight. , 2017, , .		41
14	Designing and implementing a heuristic cross-architecture combination for graph traversal. Journal of Parallel and Distributed Computing, 2017, 108, 95-105.	2.7	1
15	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
16	A new adaptive data transfer library for model coupling. Geoscientific Model Development, 2016, 9, 2099-2113.	1.3	1
17	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
18	Refactoring and Optimizing the Community Atmosphere Model (CAM) on the Sunway TaihuLight Supercomputer. , 2016, , .		27

#	ARTICLE	IF	CITATIONS
19	The Sunway TaihuLight supercomputer: system and applications. Science China Information Sciences, 2016, 59, 1.	2.7	340
20	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
21	A parallel finite-element time-domain method for transient electromagnetic simulation. Geophysics, 2015, 80, E213-E224.	1.4	22
22	Scaling Support Vector Machines on modern HPC platforms. Journal of Parallel and Distributed Computing, 2015, 76, 16-31.	2.7	25
23	Improving the scalability of the ocean barotropic solver in the community earth system model. , 2015, , .		13
24	CSAP: A Performance Predictor for Climate Simulation Applications on Intel CPUs. Lecture Notes in Computer Science, 2015, , 308-328.	1.0	0
25	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
26	Scaling and analyzing the stencil performance on multi-core and many-core architectures. , 2014, , .		11
27	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
28	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
29	Evaluation of grid-point atmospheric model of IAP LASC version 2 (GAMIL2). Advances in Atmospheric Sciences, 2013, 30, 855-867.	1.9	75
30	Accelerating the 3D Elastic Wave Forward Modeling on GPU and MIC. , 2013, , .		7
31	A Scalable Barotropic Mode Solver for the Parallel Ocean Program. Lecture Notes in Computer Science, 2013, , 739-750.	1.0	4
32	Revisiting finite difference and spectral migration methods on diverse parallel architectures. Computers and Geosciences, 2012, 43, 187-196.	2.0	6