Xiaomeng Huang

List of Publications by Year
in descending order

61	3,842	430442	233125
papers	citations	18	45
		h-index	g-index

72	72	72	4873
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Finer resolution observation and monitoring of global land cover: first mapping results with Landsat TM and ETM+ data. International Journal of Remote Sensing, 2013, 34, 2607-2654.	1.3	1,263
2	Managing nitrogen to restore water quality in China. Nature, 2019, 567, 516-520.	13.7	667
3	The Sunway TaihuLight supercomputer: system and applications. Science China Information Sciences, 2016, 59, 1.	2.7	340
4	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
5	Tracking Air Pollution in China: Near Real-Time $PM_{2.5}$ Retrievals from Multisource Data Fusion. Environmental Science & Technology, 2021, 55, 12106-12115.	4.6	205
6	Changes in spatial patterns of PM2.5 pollution in China 2000–2018: Impact of clean air policies. Environment International, 2020, 141, 105776.	4.8	118
7	Separating emission and meteorological contributions to long-term PM<sub>2.5</sub> trends over eastern China during 2000–2018. Atmospheric Chemistry and Physics, 2021, 21, 9475-9496.	1.9	99
8	Evaluation of gap-filling approaches in satellite-based daily PM2.5 prediction models. Atmospheric Environment, 2021, 244, 117921.	1.9	71
9	A Moist Physics Parameterization Based on Deep Learning. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002076.	1.3	59
10	Mesoscale Convective Systems in the Asian Monsoon Region From Advanced Himawari Imager: Algorithms and Preliminary Results. Journal of Geophysical Research D: Atmospheres, 2019, 124, 2210-2234.	1.2	57
11	A long-term tropical mesoscale convective systems dataset based on a novel objective automatic tracking algorithm. Climate Dynamics, 2018, 51, 3145-3159.	1.7	50
12	On efficient bandwidth allocation for traffic variability in datacenters. , 2014, , .		48
13	Community Integrated Earth System Model (CIESM): Description and Evaluation. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002036.	1.3	44
14	<italic>eBA</italic>: Efficient Bandwidth Guarantee Under Traffic Variability in Datacenters. IEEE/ACM Transactions on Networking, 2017, 25, 506-519.	2.6	43
15	Comparisons of three recent moderate resolution African land cover datasets: CGLS-LC100, ESA-S2-LC20, and FROM-GLC-Africa30. International Journal of Remote Sensing, 2019, 40, 6185-6202.	1.3	43
16	The Evaluation of SMAP Enhanced Soil Moisture Products Using High-Resolution Model Simulations and In-Situ Observations on the Tibetan Plateau. Remote Sensing, 2018, 10, 535.	1.8	37
17	POM.gpu-v1.0: a GPU-based Princeton Ocean Model. Geoscientific Model Development, 2015, 8, 2815-2827.	1.3	31
18	Deep Learning Optimizes Data-Driven Representation of Soil Organic Carbon in Earth System Model Over the Conterminous United States. Frontiers in Big Data, 2020, 3, 17.	1.8	24

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19	A parallel finite-element time-domain method for transient electromagnetic simulation. Geophysics, 2015, 80, E213-E224.	1.4	22
20	Estimates of daily ground-level NO_2 concentrations in China based on Random Forest model integrated K-means. Advances in Applied Energy, 2021, 2, 100017.	6.6	19
21	Global cooling induced by biophysical effects of bioenergy crop cultivation. Nature Communications, 2021, 12, 7255.	5.8	19
22	Preliminary evaluations of FGOALS-g2 for decadal predictions. Advances in Atmospheric Sciences, 2013, 30, 674-683.	1.9	18
23	Evaluation of the Common Land Model (CoLM) from the Perspective of Water and Energy Budget Simulation: Towards Inclusion in CMIP6. Atmosphere, 2017, 8, 141.	1.0	18
24	Significant Land Contributions to Interannual Predictability of East Asian Summer Monsoon Rainfall. Earth's Future, 2021, 9, e2020EF001762.	2.4	18
25	The land footprint of the global food trade: Perspectives from a case study of soybeans. Land Use Policy, 2021, 111, 105764.	2.5	17
26	A highly-efficient and green data flow engine for solving euler atmospheric equations. , 2014, , .		16
27	Assessment of Runoff Components Simulated by GLDAS against UNH–GRDC Dataset at Global and Hemispheric Scales. Water (Switzerland), 2018, 10, 969.	1.2	16
28	Understanding Data Characteristics and Access Patterns in a Cloud Storage System. , 2013, , .		15
29	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
30	A fast input/output library for high-resolution climate models. Geoscientific Model Development, 2014, 7, 93-103.	1.3	15
31	Exploring difference in land surface temperature between the city centres and urban expansion areas of China's major cities. International Journal of Remote Sensing, 2020, 41, 8965-8985.	1.3	13
32	Improving the scalability of the ocean barotropic solver in the community earth system model. , 2015, , .		13
33	SciHive: Array-Based Query Processing with HiveQL. , 2013, , .		12
34	Taming the "Monster": Overcoming Program Optimization Challenges on SW26010 Through Precise Performance Modeling. , 2018, , .		11
35	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
36	Generalized Interval Type-II Fuzzy Rough Model-Based Feature Discretization for Mixed Pixels. IEEE Transactions on Fuzzy Systems, 2023, 31, 845-859.	6.5	10

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37	A DRP–4DVar–Based Coupled Data Assimilation System With a Simplified Off–Line Localization Technique for Decadal Predictions. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001768.	1.3	9
38	A new DRP-4DVar-based coupled data assimilation system for decadal predictions using a fast online localization technique. Climate Dynamics, 2020, 54, 3541-3559.	1.7	8
39	Deep Learning for Seasonal Precipitation Prediction over China. Journal of Meteorological Research, 2022, 36, 271-281.	0.9	8
40	A High Performance Compression Method for Climate Data. , 2014, , .		7
41	Exploring the temporal density of Landsat observations for cropland mapping: experiments from Egypt, Ethiopia, and South Africa. International Journal of Remote Sensing, 2018, 39, 7328-7349.	1.3	7
42	OpenArray v1.0: a simple operator library for the decoupling of ocean modeling and parallel computing. Geoscientific Model Development, 2019, 12, 4729-4749.	1.3	7
43	Footprint of Tropical Mesoscale Convective System Variability on Stratospheric Water Vapor. Geophysical Research Letters, 2020, 47, e2019GL086320.	1.5	7
44	Changes in Biomass Turnover Times in Tropical Forests and Their Environmental Drivers From 2001 to 2012. Earth's Future, 2021, 9, .	2.4	6
45	Czip: A Fast Lossless Compression Algorithm for Climate Data. International Journal of Parallel Programming, 2016, 44, 1248-1267.	1.1	5
46	Exploring the addition of Landsat 8 thermal band in land-cover mapping. International Journal of Remote Sensing, 2019, 40, 4544-4559.	1.3	5
47	CFIO: A Fast I/O Library for Climate Models. , 2013, , .		4
48	Data Reduction Analysis for Climate Data Sets. International Journal of Parallel Programming, 2015, 43, 508-527.	1.1	4
49	A Scalable Barotropic Mode Solver for the Parallel Ocean Program. Lecture Notes in Computer Science, 2013, , 739-750.	1.0	4
50	The Chunk-Locality Index: An Efficient Query Method for Climate Datasets. , 2012, , .		3
51	A Versatile Compression Method for Floating-Point Data Stream. , 2013, , .		3
52	MERF v3.0, a highly computationally efficient non-hydrostatic ocean model with implicit parallelism: Algorithms and validation experiments. Ocean Modelling, 2021, 167, 101877.	1.0	3
53	A Two-Layered Replica Management Method. , 2011, , .		2
54	Solving global shallow water equations on heterogeneous supercomputers. PLoS ONE, 2017, 12, e0172583.	1.1	2

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55	Cropland heterogeneity changes on the Northeast China Plain in the last three decades (1980sâ€"2010s). PeerJ, 2020, 8, e9835.	0.9	2
56	Optimize Multidimensional Arrays Queries with Heterogeneous Replica Method. , 2013, , .		1
57	Adaptive Indexing for Distributed Array Processing. , 2014, , .		1
58	Disentangling land model uncertainty via Matrix-based Ensemble Model Inter-comparison Platform (MEMIP). Ecological Processes, 2022, 11, .	1.6	1
59	Seasonal and Interannual Variations of Sea Temperature Influenced by GalÃ¡pagos Islands in Eastern Tropical Pacific Ocean. Journal of Geophysical Research: Oceans, 2019, 124, 3007-3020.	1.0	0
60	Identifying Terrestrial Vegetation-Soil Moisture Oscillation from Satellite Observations. , 2020, , .		0
61	Soil Moisture Retrieval Only Using Smap L-Band Radar Observations. , 2020, , .		0