

Yaxing Wei

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

4,172
citations

147566

31
h-index

118652

62
g-index

95
all docs

95
docs citations

95
times ranked

6238
citing authors

#	ARTICLE	IF	CITATIONS
1	Decadal trends in the seasonal-cycle amplitude of terrestrial CO ₂ exchange resulting from the ensemble of terrestrial biosphere models. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 68, 28968.	0.8	31
2	The Terrestrial Biosphere Model Farm. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	5
3	Call to Action for Global Access to and Harmonization of Quality Information of Individual Earth Science Datasets. <i>Data Science Journal</i> , 2021, 20, .	0.6	5
4	Gridded daily weather data for North America with comprehensive uncertainty quantification. <i>Scientific Data</i> , 2021, 8, 190.	2.4	85
5	Atmospheric Carbon and Transport “America (ACT-America) Data Sets: Description, Management, and Delivery. <i>Earth and Space Science</i> , 2021, 8, e2020EA001634.	1.1	15
6	The Atmospheric Carbon and Transport (ACT)-America Mission. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E1714-E1734.	1.7	17
7	Global vegetation biomass production efficiency constrained by models and observations. <i>Global Change Biology</i> , 2020, 26, 1474-1484.	4.2	15
8	Evaluation of simulated soil carbon dynamics in Arctic-Boreal ecosystems. <i>Environmental Research Letters</i> , 2020, 15, 025005.	2.2	19
9	Modeling suggests fossil fuel emissions have been driving increased land carbon uptake since the turn of the 20th Century. <i>Scientific Reports</i> , 2020, 10, 9059.	1.6	11
10	Impacts of land use change and elevated CO ₂ on the interannual variations and seasonal cycles of gross primary productivity in China. <i>Earth System Dynamics</i> , 2020, 11, 235-249.	2.7	16
11	A Multiyear Gridded Data Ensemble of Surface Biogenic Carbon Fluxes for North America: Evaluation and Analysis of Results. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005314.	1.3	14
12	Divergence in land surface modeling: linking spread to structure. <i>Environmental Research Communications</i> , 2019, 1, 111004.	0.9	13
13	Field-experiment constraints on the enhancement of the terrestrial carbon sink by CO ₂ fertilization. <i>Nature Geoscience</i> , 2019, 12, 809-814.	5.4	58
14	Vegetation Functional Properties Determine Uncertainty of Simulated Ecosystem Productivity: A Traceability Analysis in the East Asian Monsoon Region. <i>Global Biogeochemical Cycles</i> , 2019, 33, 668-689.	1.9	38
15	Land carbon models underestimate the severity and duration of drought’s impact on plant productivity. <i>Scientific Reports</i> , 2019, 9, 2758.	1.6	42
16	Validation of a Statistical Methodology for Extracting Vegetation Feedbacks: Focus on North African Ecosystems in the Community Earth System Model. <i>Journal of Climate</i> , 2018, 31, 1565-1586.	1.2	13
17	Preserve: Protecting Data for Long-Term Use. , 2018, , 89-113.		0
18	Enhanced peak growth of global vegetation and its key mechanisms. <i>Nature Ecology and Evolution</i> , 2018, 2, 1897-1905.	3.4	169

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19	Forests dominate the interannual variability of the North American carbon sink. <i>Environmental Research Letters</i> , 2018, 13, 084015.	2.2	23
20	Global land carbon sink response to temperature and precipitation varies with ENSO phase. <i>Environmental Research Letters</i> , 2017, 12, 064007.	2.2	39
21	Advancing a Model-Validated Statistical Method for Decomposing the Key Oceanic Drivers of Regional Climate: Focus on Northern and Tropical African Climate Variability in the Community Earth System Model (CESM). <i>Journal of Climate</i> , 2017, 30, 8517-8537.	1.2	9
22	Uncertainty in the response of terrestrial carbon sink to environmental drivers undermines carbon-climate feedback predictions. <i>Scientific Reports</i> , 2017, 7, 4765.	1.6	156
23	Global patterns of drought recovery. <i>Nature</i> , 2017, 548, 202-205.	13.7	560
24	Response of Water Use Efficiency to Global Environmental Change Based on Output From Terrestrial Biosphere Models. <i>Global Biogeochemical Cycles</i> , 2017, 31, 1639-1655.	1.9	63
25	Observed positive vegetation-rainfall feedbacks in the Sahel dominated by a moisture recycling mechanism. <i>Nature Communications</i> , 2017, 8, 1873.	5.8	48
26	Reduced North American terrestrial primary productivity linked to anomalous Arctic warming. <i>Nature Geoscience</i> , 2017, 10, 572-576.	5.4	54
27	Grid, Geospatial. , 2017, , 829-834.		0
28	A Semi-Automated Workflow Solution for Data Set Publication. <i>ISPRS International Journal of Geo-Information</i> , 2016, 5, 30.	1.4	1
29	Uncertainty analysis of terrestrial net primary productivity and net biome productivity in China during 1901–2005. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1372-1393.	1.3	35
30	Accessing and distributing large volumes of NetCDF data. , 2016, , .		1
31	Implementation of data citations and persistent identifiers at the ORNL DAAC. <i>Ecological Informatics</i> , 2016, 33, 10-16.	2.3	6
32	Toward more realistic projections of soil carbon dynamics by Earth system models. <i>Global Biogeochemical Cycles</i> , 2016, 30, 40-56.	1.9	343
33	DataONE: A Data Federation with Provenance Support. <i>Lecture Notes in Computer Science</i> , 2016, , 230-234.	1.0	8
34	Grid, Geospatial. , 2016, , 1-7.		0
35	Global patterns and controls of soil organic carbon dynamics as simulated by multiple terrestrial biosphere models: Current status and future directions. <i>Global Biogeochemical Cycles</i> , 2015, 29, 775-792.	1.9	241
36	Toward “optimal” integration of terrestrial biosphere models. <i>Geophysical Research Letters</i> , 2015, 42, 4418-4428.	1.5	48

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37	Disentangling climatic and anthropogenic controls on global terrestrial evapotranspiration trends. <i>Environmental Research Letters</i> , 2015, 10, 094008.	2.2	119
38	North America's net terrestrial CO ₂ exchange with the atmosphere 1990–2009. <i>Biogeosciences</i> , 2015, 12, 399-414.	1.3	54
39	Bridging Theory with Practice: An Exploratory Study of Visualization Use and Design for Climate Model Comparison. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2015, 21, 996-1014.	2.9	36
40	Preparing, storing, and distributing multi-dimensional scientific data. , 2015, , .		0
41	Development of mpi_EPIC model for global agroecosystem modeling. <i>Computers and Electronics in Agriculture</i> , 2015, 111, 48-54.	3.7	6
42	Projecting changes in annual hydropower generation using regional runoff data: An assessment of the United States federal hydropower plants. <i>Energy</i> , 2015, 80, 239-250.	4.5	82
43	How well do terrestrial biosphere models simulate coarse-scale runoff in the contiguous United States?. <i>Ecological Modelling</i> , 2015, 303, 87-96.	1.2	9
44	The North American Carbon Program Multi-scale Synthesis and Terrestrial Model Intercomparison Project – Part 2: Environmental driver data. <i>Geoscientific Model Development</i> , 2014, 7, 2875-2893.	1.3	207
45	Toward verifying fossil fuel CO ₂ emissions with the CMAQ model: Motivation, model description and initial simulation. <i>Journal of the Air and Waste Management Association</i> , 2014, 64, 419-435.	0.9	9
46	Visual Reconciliation of Alternative Similarity Spaces in Climate Modeling. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2014, 20, 1923-1932.	2.9	20
47	Global simulation of bioenergy crop productivity: analytical framework and case study for switchgrass. <i>GCB Bioenergy</i> , 2014, 6, 14-25.	2.5	22
48	SimilarityExplorer: A Visual Inter-Comparison Tool for Multifaceted Climate Data. <i>Computer Graphics Forum</i> , 2014, 33, 341-350.	1.8	29
49	Sensitivity of global terrestrial gross primary production to hydrologic states simulated by the Community Land Model using two runoff parameterizations. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 658-679.	1.3	48
50	Impact of large-scale climate extremes on biospheric carbon fluxes: An intercomparison based on MSTMIP data. <i>Global Biogeochemical Cycles</i> , 2014, 28, 585-600.	1.9	181
51	Stream-Reach Identification for New Run-of-River Hydropower Development through a Merit Matrix-Based Geospatial Algorithm. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, 04014016.	1.3	5
52	The PBase Scientific Workflow Provenance Repository. <i>International Journal of Digital Curation</i> , 2014, 9, 28-38.	0.1	18
53	LIV-CDAT: Analyzing Climate Datasets from a User's Perspective. <i>Computing in Science and Engineering</i> , 2013, 15, 94-103.	1.2	26
54	Intelligent services for discovery of complex geospatial features from remote sensing imagery. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2013, 83, 151-164.	4.9	32

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55	The Unified North American Soil Map and its implication on the soil organic carbon stock in North America. <i>Biogeosciences</i> , 2013, 10, 2915-2930.	1.3	55
56	The North American Carbon Program Multi-Scale Synthesis and Terrestrial Model Intercomparison Project – Part 1: Overview and experimental design. <i>Geoscientific Model Development</i> , 2013, 6, 2121-2133.	1.3	212
57	Semantic feature catalogue service. , 2012, , .		1
58	GEOSS Component and Service Registry: Design, Implementation and Lessons Learned. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2012, 5, 1678-1686.	2.3	16
59	Reconciling estimates of the contemporary North American carbon balance among terrestrial biosphere models, atmospheric inversions, and a new approach for estimating net ecosystem exchange from inventory-based data. <i>Global Change Biology</i> , 2012, 18, 1282-1299.	4.2	116
60	North American Carbon Program (NACP) regional interim synthesis: Terrestrial biospheric model intercomparison. <i>Ecological Modelling</i> , 2012, 232, 144-157.	1.2	207
61	Integrating semantic web technologies and geospatial catalog services for geospatial information discovery and processing in cyberinfrastructure. <i>Geoinformatica</i> , 2011, 15, 273-303.	2.0	60
62	Sharing geospatial provenance in a service-oriented environment. <i>Computers, Environment and Urban Systems</i> , 2011, 35, 333-343.	3.3	35
63	Grid computing enhances standards-compatible geospatial catalogue service. <i>Computers and Geosciences</i> , 2010, 36, 411-421.	2.0	10
64	Use of grid computing for modeling virtual geospatial products. <i>International Journal of Geographical Information Science</i> , 2009, 23, 581-604.	2.2	35
65	A taxonomy of geospatial services for global service discovery and interoperability. <i>Computers and Geosciences</i> , 2009, 35, 783-790.	2.0	28
66	Semantic Web-based geospatial knowledge transformation. <i>Computers and Geosciences</i> , 2009, 35, 798-808.	2.0	30
67	Use of eBRIM-based CSW with sensor observation services for registry and discovery of remote-sensing observations. <i>Computers and Geosciences</i> , 2009, 35, 360-372.	2.0	37
68	Discover, visualize, and deliver geospatial data through OGC standards-based WebGIS system. , 2009, , .		4
69	Sharing of Distributed Geospatial Data through Grid Technology. , 2009, , 222-228.		3
70	Geospatial Image Metadata Catalog Services. , 2009, , 171-177.		0
71	Grid Computing and its Application to Geoinformatics. , 2009, , 213-221.		0
72	The development of a geospatial data Grid by integrating OGC Web services with Globus-based Grid technology. <i>Concurrency Computation Practice and Experience</i> , 2008, 20, 1617-1635.	1.4	27

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73	Design and Implementation of GeoBrain Online Analysis System (GeOnAS). Lecture Notes in Computer Science, 2008, , 27-36.	1.0	10
74	Grid, Geospatial. , 2008, , 419-424.		0
75	Grid-enabled OGC environment for EO data and services in support of Canada’s forest applications. , 2007, , .		4
76	Towards a Geospatial Catalogue Federation Service. Photogrammetric Engineering and Remote Sensing, 2007, 73, 699-708.	0.3	38
77	Transformation of HDF-EOS metadata from the ECS model to ISO 19115-based XML. Computers and Geosciences, 2007, 33, 238-247.	2.0	22
78	An Optimized Grid-Based, OGC Standards-Compliant Collaborative Software System for Serving NASA Geospatial Data. , 2006, , .		16
79	Effective Acquisition of Geospatial Data Products in a Collaborative Grid Environment. , 2006, , .		5
80	Semantic Augmentations for Geospatial Catalogue Service. , 2006, , .		19
81	Grid-enabled Standard-compliant Open Computing Environment for Earth Science Exploration and Applications. , 2006, , .		2
82	The design and implementation of a grid-enabled catalogue service. , 0, , .		10