

Jiafu Mao

List of Publications by Year in descending order

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Version: 2024-02-01

106
papers

9,422
citations

57631

44
h-index

40881

93
g-index

120
all docs

120
docs citations

120
times ranked

10058
citing authors

#	ARTICLE	IF	CITATIONS
1	Deficient precipitation sensitivity to Sahel land surface forcings among <scp>CMIP5</scp> models. <i>International Journal of Climatology</i> , 2023, 43, 99-122.	1.5	1
2	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
3	Machine learning-based observation-constrained projections reveal elevated global socioeconomic risks from wildfire. <i>Nature Communications</i> , 2022, 13, 1250.	5.8	19
4	Artificial light at night: an underappreciated effect on phenology of deciduous woody plants. , 2022, 1, .		18
5	Photosynthesis phenology, as defined by solar-induced chlorophyll fluorescence, is overestimated by vegetation indices in the extratropical Northern Hemisphere. <i>Agricultural and Forest Meteorology</i> , 2022, 323, 109027.	1.9	17
6	Decoupling of greenness and gross primary productivity as aridity decreases. <i>Remote Sensing of Environment</i> , 2022, 279, 113120.	4.6	34
7	Moisture availability mediates the relationship between terrestrial gross primary production and solar-induced chlorophyll fluorescence: Insights from global-scale variations. <i>Global Change Biology</i> , 2021, 27, 1144-1156.	4.2	57
8	Extending a land-surface model with <i>Sphagnum</i> moss to simulate responses of a northern temperate bog to whole ecosystem warming and elevated CO ₂ . <i>Biogeosciences</i> , 2021, 18, 467-486.	1.3	17
9	Photoperiod decelerates the advance of spring phenology of six deciduous tree species under climate warming. <i>Global Change Biology</i> , 2021, 27, 2914-2927.	4.2	48
10	Unusual characteristics of the carbon cycle during the 2015~2016 El Niño. <i>Global Change Biology</i> , 2021, 27, 3798-3809.	4.2	6
11	Seasonal changes in GPP/SIF ratios and their climatic determinants across the Northern Hemisphere. <i>Global Change Biology</i> , 2021, 27, 5186-5197.	4.2	34
12	An Integrative Model for Soil Biogeochemistry and Methane Processes: I. Model Structure and Sensitivity Analysis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2019JG005468.	1.3	11
13	Decisions and coordination of retailer-led low-carbon supply chain under altruistic preference. <i>European Journal of Operational Research</i> , 2021, 293, 910-925.	3.5	99
14	Development of observation-based global multilayer soil moisture products for 1970 to 2016. <i>Earth System Science Data</i> , 2021, 13, 4385-4405.	3.7	9
15	Evaluation and modification of ELM seasonal deciduous phenology against observations in a southern boreal peatland forest. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108556.	1.9	7
16	Land cover change-induced decline in terrestrial gross primary production over the conterminous United States from 2001 to 2016. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108609.	1.9	10
17	Interannual variability and climatic sensitivity of global wildfire activity. <i>Advances in Climate Change Research</i> , 2021, 12, 686-695.	2.1	9
18	Human-caused long-term changes in global aridity. <i>Npj Climate and Atmospheric Science</i> , 2021, 4, .	2.6	18

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19	Global vegetation biomass production efficiency constrained by models and observations. <i>Global Change Biology</i> , 2020, 26, 1474-1484.	4.2	15
20	Divergent responses of spring phenology to daytime and nighttime warming. <i>Agricultural and Forest Meteorology</i> , 2020, 281, 107832.	1.9	38
21	Evaluation of simulated soil carbon dynamics in Arctic-Boreal ecosystems. <i>Environmental Research Letters</i> , 2020, 15, 025005.	2.2	19
22	Modelling tree stem-water dynamics over an Amazonian rainforest. <i>Ecohydrology</i> , 2020, 13, e2180.	1.1	9
23	Rapid Net Carbon Loss From a Whole-Ecosystem Warmed Peatland. <i>AGU Advances</i> , 2020, 1, e2020AV000163.	2.3	69
24	Mapping potentials and bridging regional gaps of renewable resources in China. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110337.	8.2	30
25	Projected changes in the terrestrial and oceanic regulators of climate variability across sub-Saharan Africa. <i>Climate Dynamics</i> , 2020, 55, 1031-1057.	1.7	4
26	Quantifying the drivers and predictability of seasonal changes in African fire. <i>Nature Communications</i> , 2020, 11, 2893.	5.8	15
27	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
28	Observed changes in dry-season water availability attributed to human-induced climate change. <i>Nature Geoscience</i> , 2020, 13, 477-481.	5.4	132
29	Urban warming advances spring phenology but reduces the response of phenology to temperature in the conterminous United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 4228-4233.	3.3	109
30	A Causal Inference Model Based on Random Forests to Identify the Effect of Soil Moisture on Precipitation. <i>Journal of Hydrometeorology</i> , 2020, 21, 1115-1131.	0.7	21
31	Spatiotemporal dynamics of ecosystem fires and biomass burning-induced carbon emissions in China over the past two decades. <i>Geography and Sustainability</i> , 2020, 1, 47-58.	1.9	14
32	Cryptic phenology in plants: Case studies, implications, and recommendations. <i>Global Change Biology</i> , 2019, 25, 3591-3608.	4.2	26
33	Streamflow in the Columbia River Basin: Quantifying Changes Over the Period 1951-2008 and Determining the Drivers of Those Changes. <i>Water Resources Research</i> , 2019, 55, 6640-6652.	1.7	15
34	Carbon and Water Use Efficiencies: A Comparative Analysis of Ten Terrestrial Ecosystem Models under Changing Climate. <i>Scientific Reports</i> , 2019, 9, 14680.	1.6	37
35	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
36	The paleoclimatic footprint in the soil carbon stock of the Tibetan permafrost region. <i>Nature Communications</i> , 2019, 10, 4195.	5.8	39

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37	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
38	Permafrost response to vegetation greenness variation in the Arctic tundra through positive feedback in surface air temperature and snow cover. <i>Environmental Research Letters</i> , 2019, 14, 044024.	2.2	13
39	Air temperature optima of vegetation productivity across global biomes. <i>Nature Ecology and Evolution</i> , 2019, 3, 772-779.	3.4	316
40	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
41	Predictability of tropical vegetation greenness using sea surface temperatures*. <i>Environmental Research Communications</i> , 2019, 1, 031003.	0.9	2
42	Vulnerability of existing and planned coal-fired power plants in Developing Asia to changes in climate and water resources. <i>Energy and Environmental Science</i> , 2019, 12, 3164-3181.	15.6	38
43	Contribution of environmental forcings to US runoff changes for the period 1950-2010. <i>Environmental Research Letters</i> , 2018, 13, 054023.	2.2	9
44	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
45	Impact of Earth Greening on the Terrestrial Water Cycle. <i>Journal of Climate</i> , 2018, 31, 2633-2650.	1.2	142
46	Quantifying the Effects of Historical Land Cover Conversion Uncertainty on Global Carbon and Climate Estimates. <i>Geophysical Research Letters</i> , 2018, 45, 974-982.	1.5	26
47	Asymmetric responses of primary productivity to altered precipitation simulated by ecosystem models across three long-term grassland sites. <i>Biogeosciences</i> , 2018, 15, 3421-3437.	1.3	55
48	Self-Amplifying Feedbacks Accelerate Greening and Warming of the Arctic. <i>Geophysical Research Letters</i> , 2018, 45, 7102-7111.	1.5	35
49	Uncertainty Quantification of Extratropical Forest Biomass in CMIP5 Models over the Northern Hemisphere. <i>Scientific Reports</i> , 2018, 8, 10962.	1.6	7
50	Weakening temperature control on the interannual variations of spring carbon uptake across northern lands. <i>Nature Climate Change</i> , 2017, 7, 359-363.	8.1	183
51	Climate mitigation from vegetation biophysical feedbacks during the past three decades. <i>Nature Climate Change</i> , 2017, 7, 432-436.	8.1	323
52	Biospheric feedback effects in a synchronously coupled model of human and Earth systems. <i>Nature Climate Change</i> , 2017, 7, 496-500.	8.1	46
53	Response of vegetation phenology to urbanization in the conterminous United States. <i>Global Change Biology</i> , 2017, 23, 2818-2830.	4.2	130
54	Global land carbon sink response to temperature and precipitation varies with ENSO phase. <i>Environmental Research Letters</i> , 2017, 12, 064007.	2.2	39

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55	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
56	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
57	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
58	Observed positive vegetation-rainfall feedbacks in the Sahel dominated by a moisture recycling mechanism. <i>Nature Communications</i> , 2017, 8, 1873.	5.8	48
59	Informing climate models with rapid chamber measurements of forest carbon uptake. <i>Global Change Biology</i> , 2017, 23, 2130-2139.	4.2	9
60	Evaluating the Community Land Model in a pine stand with shading manipulations and ^{13}C labeling. <i>Biogeosciences</i> , 2016, 13, 641-657.	1.3	18
61	LS3MIP (v1.0) contribution to CMIP6: the Land Surface, Snow and Soil moisture Model Intercomparison Project "aims, setup and expected outcome. <i>Geoscientific Model Development</i> , 2016, 9, 2809-2832.	1.3	152
62	High Resolution Model Intercomparison Project (HighResMIP v1.0) for CMIP6. <i>Geoscientific Model Development</i> , 2016, 9, 4185-4208.	1.3	643
63	Global patterns and climate drivers of water-use efficiency in terrestrial ecosystems deduced from satellite-based datasets and carbon cycle models. <i>Global Ecology and Biogeography</i> , 2016, 25, 311-323.	2.7	102
64	Seasonal responses of terrestrial ecosystem water-use efficiency to climate change. <i>Global Change Biology</i> , 2016, 22, 2165-2177.	4.2	100
65	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
66	Greening of the Earth and its drivers. <i>Nature Climate Change</i> , 2016, 6, 791-795.	8.1	1,675
67	Evaluation of the Community Land Model simulated carbon and water fluxes against observations over ChinaFLUX sites. <i>Agricultural and Forest Meteorology</i> , 2016, 226-227, 174-185.	1.9	26
68	A scalable framework for the global offline community land model ensemble simulation. <i>International Journal of Computational Science and Engineering</i> , 2016, 12, 73.	0.4	2
69	Increased light-use efficiency in northern terrestrial ecosystems indicated by CO_2 and greening observations. <i>Geophysical Research Letters</i> , 2016, 43, 11,339.	1.5	40
70	Testing a land model in ecosystem functional space via a comparison of observed and modeled ecosystem flux responses to precipitation regimes and associated stresses in a Central U.S. forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1884-1902.	1.3	29
71	Human-induced greening of the northern extratropical land surface. <i>Nature Climate Change</i> , 2016, 6, 959-963.	8.1	145
72	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

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73	Toward "optimal" integration of terrestrial biosphere models. <i>Geophysical Research Letters</i> , 2015, 42, 4418-4428.	1.5	48
74	Disentangling climatic and anthropogenic controls on global terrestrial evapotranspiration trends. <i>Environmental Research Letters</i> , 2015, 10, 094008.	2.2	119
75	Representing northern peatland microtopography and hydrology within the Community Land Model. <i>Biogeosciences</i> , 2015, 12, 6463-6477.	1.3	66
76	The integrated Earth system model version 1: formulation and functionality. <i>Geoscientific Model Development</i> , 2015, 8, 2203-2219.	1.3	44
77	Change in terrestrial ecosystem water-use efficiency over the last three decades. <i>Global Change Biology</i> , 2015, 21, 2366-2378.	4.2	215
78	Comparing Evapotranspiration from Eddy Covariance Measurements, Water Budgets, Remote Sensing, and Land Surface Models over Canada. <i>Journal of Hydrometeorology</i> , 2015, 16, 1540-1560.	0.7	75
79	Seasonally different response of photosynthetic activity to daytime and nighttime warming in the Northern Hemisphere. <i>Global Change Biology</i> , 2015, 21, 377-387.	4.2	72
80	Detection and attribution of vegetation greening trend in China over the last 30 years. <i>Global Change Biology</i> , 2015, 21, 1601-1609.	4.2	597
81	From land use to land cover: restoring the afforestation signal in a coupled integrated assessment earth system model and the implications for CMIP5 RCP simulations. <i>Biogeosciences</i> , 2014, 11, 6435-6450.	1.3	49
82	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
83	A worldwide analysis of spatiotemporal changes in water balance-based evapotranspiration from 1982 to 2009. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1186-1202.	1.2	109
84	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
85	On linking an Earth system model to the equilibrium carbon representation of an economically optimizing land use model. <i>Geoscientific Model Development</i> , 2014, 7, 2545-2555.	1.3	26
86	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
87	Evidence for a weakening relationship between interannual temperature variability and northern vegetation activity. <i>Nature Communications</i> , 2014, 5, 5018.	5.8	414
88	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
89	Stochastic Parameterization to Represent Variability and Extremes in Climate Modeling. <i>Procedia Computer Science</i> , 2014, 29, 1146-1155.	1.2	5
90	Greenhouse Gas Policy Influences Climate via Direct Effects of Land-Use Change. <i>Journal of Climate</i> , 2013, 26, 3657-3670.	1.2	59

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91	Spatiotemporal patterns of evapotranspiration in response to multiple environmental factors simulated by the Community Land Model. <i>Environmental Research Letters</i> , 2013, 8, 024012.	2.2	71
92	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
93	Global Latitudinal-Asymmetric Vegetation Growth Trends and Their Driving Mechanisms: 1982–2009. <i>Remote Sensing</i> , 2013, 5, 1484-1497.	1.8	117
94	Evaluation of CLM4 Solar Radiation Partitioning Scheme Using Remote Sensing and Site Level FPAR Datasets. <i>Remote Sensing</i> , 2013, 5, 2857-2882.	1.8	14
95	Remote Sensing Evaluation of CLM4 GPP for the Period 2000–09*. <i>Journal of Climate</i> , 2012, 25, 5327-5342.	1.2	85
96	Causes of spring vegetation growth trends in the northern mid–high latitudes from 1982 to 2004. <i>Environmental Research Letters</i> , 2012, 7, 014010.	2.2	53
97	The carbon budget of terrestrial ecosystems in East Asia over the last two decades. <i>Biogeosciences</i> , 2012, 9, 3571-3586.	1.3	103
98	The impact of climate, CO ₂ , nitrogen deposition and land use change on simulated contemporary global river flow. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	58
99	Global and regional coupled climate sensitivity to the parameterization of rainfall interception. <i>Climate Dynamics</i> , 2011, 37, 171-186.	1.7	4
100	Coupling a terrestrial biogeochemical model to the common land model. <i>Advances in Atmospheric Sciences</i> , 2011, 28, 1129-1142.	1.9	4
101	The CSIRO Mk3L climate system model v1.0 coupled to the CABLE land surface scheme v1.4b: evaluation of the control climatology. <i>Geoscientific Model Development</i> , 2011, 4, 1115-1131.	1.3	18
102	Simulation and evaluation of terrestrial ecosystem NPP with M-SDGVM over continental China. <i>Advances in Atmospheric Sciences</i> , 2010, 27, 427-442.	1.9	19
103	Assessment of Reanalysis Daily Extreme Temperatures with China's Homogenized Historical Dataset during 1979–2001 Using Probability Density Functions. <i>Journal of Climate</i> , 2010, 23, 6605-6623.	1.2	48
104	Sensitivity of the carbon storage of potential vegetation to historical climate variability and CO ₂ in continental China. <i>Advances in Atmospheric Sciences</i> , 2009, 26, 87-100.	1.9	11
105	Improvements of a dynamic global vegetation model and simulations of carbon and water at an upland-oak forest. <i>Advances in Atmospheric Sciences</i> , 2007, 24, 311-322.	1.9	9
106	Interannual variability in the onset of the summer monsoon over the Eastern Bay of Bengal. <i>Theoretical and Applied Climatology</i> , 2007, 89, 155-170.	1.3	82