

Yongjiu Dai

List of Publications by Year in descending order

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Version: 2024-02-01

126
papers

10,027
citations

44069

48
h-index

36028

97
g-index

132
all docs

132
docs citations

132
times ranked

10160
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicting climate anomalies: A real challenge. <i>Atmospheric and Oceanic Science Letters</i> , 2022, 15, 100115.	1.3	12
2	Changes in Global Vegetation Distribution and Carbon Fluxes in Response to Global Warming: Simulated Results from IAP-DGVM in CAS-ESM2. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 1285-1298.	4.3	8
3	Multistep Forecasting of Soil Moisture Using Spatiotemporal Deep Encoder-Decoder Networks. <i>Journal of Hydrometeorology</i> , 2022, , .	1.9	3
4	Influences of 3D Sub-Grid Terrain Radiative Effect on the Performance of CoLM Over Heihe River Basin, Tibetan Plateau. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.8	9
5	Assessment of global meteorological, hydrological and agricultural drought under future warming based on CMIP6. <i>Atmospheric and Oceanic Science Letters</i> , 2022, 15, 100143.	1.3	19
6	Plant drought tolerance trait is the key parameter in improving the modeling of terrestrial transpiration in arid and semi-arid regions. <i>Atmospheric and Oceanic Science Letters</i> , 2022, 15, 100139.	1.3	1
7	A Catchment-Based Hierarchical Spatial Tessellation Approach to a Better Representation of Land Heterogeneity for Hyper-Resolution Land Surface Modeling. <i>Water Resources Research</i> , 2022, 58, .	4.2	3
8	Unexpected response of nitrogen deposition to nitrogen oxide controls and implications for land carbon sink. <i>Nature Communications</i> , 2022, 13, .	12.8	10
9	Causality-Structured Deep Learning for Soil Moisture Predictions. <i>Journal of Hydrometeorology</i> , 2022, 23, 1315-1331.	1.9	2
10	Scientific and Human Errors in a Snow Model Intercomparison. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E61-E79.	3.3	38
11	Evaluation of the Effect of Low Soil Temperature Stress on the Land Surface Energy Fluxes Simulation in the Site and Global Offline Experiments. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002403.	3.8	2
12	Effects of Incorporating Measured Leaf Optical Properties in Land Surface Models. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	2
13	Comparing machine learning-derived global estimates of soil respiration and its components with those from terrestrial ecosystem models. <i>Environmental Research Letters</i> , 2021, 16, 054048.	5.2	18
14	New Representation of Plant Hydraulics Improves the Estimates of Transpiration in Land Surface Model. <i>Forests</i> , 2021, 12, 722.	2.1	3
15	A deep-learning-based experiment for benchmarking the performance of global terrestrial vegetation phenology models. <i>Global Ecology and Biogeography</i> , 2021, 30, 2178-2199.	5.8	7
16	Development of observation-based global multilayer soil moisture products for 1970 to 2016. <i>Earth System Science Data</i> , 2021, 13, 4385-4405.	9.9	9
17	A hybrid deep learning algorithm and its application to streamflow prediction. <i>Journal of Hydrology</i> , 2021, 601, 126636.	5.4	64
18	Fourth-Order Conservative Transport on Overset Grids Using Multi-Moment Constrained Finite Volume Scheme for Oceanic Modeling. <i>Journal of Ocean University of China</i> , 2020, 19, 747-760.	1.2	2

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19	Implementation and Evaluation of an Improved Lake Scheme in Beijing Climate Center Atmosphere-Vegetation Interaction Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031272.	3.3	1
20	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.	7.1	109
21	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.	1.9	21
22	A Semiprognostic Phenology Model for Simulating Multidecadal Dynamics of Global Vegetation Leaf Area Index. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001935.	3.8	7
23	A 3D Nonhydrostatic Compressible Atmospheric Dynamic Core by Multi-moment Constrained Finite Volume Method. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 1129-1142.	4.3	3
24	Further Improvement of Surface Flux Estimation in the Unstable Surface Layer Based on Large-Eddy Simulation Data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 9839-9854.	3.3	7
25	A review of the global soil property maps for Earth system models. <i>Soil</i> , 2019, 5, 137-158.	4.9	94
26	Evaluation of Soil Thermal Conductivity Schemes for Use in Land Surface Modeling. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3454-3473.	3.8	48
27	Modeling Variably Saturated Flow in Stratified Soils With Explicit Tracking of Wetting Front and Water Table Locations. <i>Water Resources Research</i> , 2019, 55, 7939-7963.	4.2	4
28	A Global High-Resolution Data Set of Soil Hydraulic and Thermal Properties for Land Surface Modeling. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2996-3023.	3.8	94
29	Coupling the Common Land Model to ECHAM5 Atmospheric General Circulation Model. <i>Journal of Meteorological Research</i> , 2019, 33, 251-263.	2.4	6
30	Using data-driven methods to explore the predictability of surface soil moisture with FLUXNET site data. <i>Hydrological Processes</i> , 2019, 33, 2978-2996.	2.6	18
31	Evaluating and Improving the Performance of Three Lake Models in a Large Deep Lake of the Central Tibetan Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3143-3167.	3.3	49
32	A simple time-stepping scheme to simulate leaf area index, phenology, and gross primary production across deciduous broadleaf forests in the eastern United States. <i>Biogeosciences</i> , 2019, 16, 467-484.	3.3	6
33	Different representations of canopy structure—A large source of uncertainty in global land surface modeling. <i>Agricultural and Forest Meteorology</i> , 2019, 269-270, 119-135.	4.8	13
34	CWRF performance at downscaling China climate characteristics. <i>Climate Dynamics</i> , 2019, 52, 2159-2184.	3.8	45
35	Evaluation of the New Dynamic Global Vegetation Model in CAS-ESM. <i>Advances in Atmospheric Sciences</i> , 2018, 35, 659-670.	4.3	21
36	A steady-state approximation approach to simulate seasonal leaf dynamics of deciduous broadleaf forests via climate variables. <i>Agricultural and Forest Meteorology</i> , 2018, 249, 44-56.	4.8	9

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37	The Simulation of East Asian Summer Monsoon Precipitation With a Regional Ocean-Atmosphere Coupled Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 11,362.	3.3	7
38	ESM-SnowMIP: assessing snow models and quantifying snow-related climate feedbacks. <i>Geoscientific Model Development</i> , 2018, 11, 5027-5049.	3.6	119
39	The lake scheme of the Common Land Model and its performance evaluation. <i>Chinese Science Bulletin</i> , 2018, 63, 3002-3021.	0.7	15
40	Observational Evidence for Desert Amplification Using Multiple Satellite Datasets. <i>Scientific Reports</i> , 2017, 7, 2043.	3.3	17
41	Mapping the global depth to bedrock for land surface modeling. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 65-88.	3.8	201
42	Evaluating common land model energy fluxes using FLUXNET data. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 1035-1046.	4.3	11
43	Numerical simulation of urban land surface effects on summer convective rainfall under different UHI intensity in Beijing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 7851-7868.	3.3	52
44	Incorporating root hydraulic redistribution and compensatory water uptake in the Common Land Model: Effects on site level and global land modeling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 7308-7322.	3.3	16
45	Incorporation of plant traits in a land surface model helps explain the global biogeographical distribution of major forest functional types. <i>Global Ecology and Biogeography</i> , 2017, 26, 304-317.	5.8	25
46	Evaluation of simulated climatological diurnal temperature range in CMIP5 models from the perspective of planetary boundary layer turbulent mixing. <i>Climate Dynamics</i> , 2017, 49, 1-22.	3.8	52
47	Reexamination and further development of two-stream canopy radiative transfer models for global land modeling. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 113-129.	3.8	20
48	Water balance creates a threshold in soil pH at the global scale. <i>Nature</i> , 2016, 540, 567-569.	27.8	358
49	Multiobjective adaptive surrogate modeling-based optimization for parameter estimation of large, complex geophysical models. <i>Water Resources Research</i> , 2016, 52, 1984-2008.	4.2	63
50	Mechanisms for stronger warming over drier ecoregions observed since 1979. <i>Climate Dynamics</i> , 2016, 47, 2955-2974.	3.8	40
51	Human-induced greening of the northern extratropical land surface. <i>Nature Climate Change</i> , 2016, 6, 959-963.	18.8	145
52	Age-dependent forest carbon sink: Estimation via inverse modeling. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 2473-2492.	3.0	48
53	Stepwise sensitivity analysis from qualitative to quantitative: Application to the terrestrial hydrological modeling of a Conjunctive Surface-Subsurface Process (CSSP) land surface model. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 648-669.	3.8	26
54	Disentangling climatic and anthropogenic controls on global terrestrial evapotranspiration trends. <i>Environmental Research Letters</i> , 2015, 10, 094008.	5.2	119

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55	Stronger warming amplification over drier ecoregions observed since 1979. <i>Environmental Research Letters</i> , 2015, 10, 064012.	5.2	60
56	Multi-objective parameter optimization of common land model using adaptive surrogate modeling. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 2409-2425.	4.9	60
57	Nitrogen and phosphorous limitation reduces the effects of land use change on land carbon uptake or emission. <i>Environmental Research Letters</i> , 2015, 10, 014001.	5.2	25
58	Particle-Size Distribution Models for the Conversion of Chinese Data to FAO/USDA System. <i>Scientific World Journal</i> , The, 2014, 2014, 1-11.	2.1	13
59	Soil Diversity as Affected by Land Use in China: Consequences for Soil Protection. <i>Scientific World Journal</i> , The, 2014, 2014, 1-12.	2.1	11
60	A 3D Canopy Radiative Transfer Model for Global Climate Modeling: Description, Validation, and Application. <i>Journal of Climate</i> , 2014, 27, 1168-1192.	3.2	49
61	Description and basic evaluation of Beijing Normal University Earth System Model (BNU-ESM) version 1. <i>Geoscientific Model Development</i> , 2014, 7, 2039-2064.	3.6	229
62	Nitrogen and phosphorous limitations significantly reduce future allowable CO ₂ emissions. <i>Geophysical Research Letters</i> , 2014, 41, 632-637.	4.0	70
63	A global soil data set for earth system modeling. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 249-263.	3.8	436
64	Impact of precipitation-induced sensible heat on the simulation of land surface air temperature. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 1311-1320.	3.8	19
65	Monitoring dynamic changes of global land cover types: fluctuations of major lakes in China every 8 days during 2000-2010. <i>Science Bulletin</i> , 2014, 59, 171-189.	1.7	78
66	Mapping near-surface air temperature, pressure, relative humidity and wind speed over Mainland China with high spatiotemporal resolution. <i>Advances in Atmospheric Sciences</i> , 2014, 31, 1127-1135.	4.3	42
67	On using smoothing spline and residual correction to fuse rain gauge observations and remote sensing data. <i>Journal of Hydrology</i> , 2014, 508, 410-417.	5.4	31
68	Diurnal and seasonal variations of wind farm impacts on land surface temperature over western Texas. <i>Climate Dynamics</i> , 2013, 41, 307-326.	3.8	48
69	Preliminary estimation of the organic carbon pool in China's wetlands. <i>Science Bulletin</i> , 2013, 58, 662-670.	1.7	46
70	An efficient method for global parameter sensitivity analysis and its applications to the Australian community land surface model (CABLE). <i>Agricultural and Forest Meteorology</i> , 2013, 182-183, 292-303.	4.8	41
71	Representing permafrost properties in CoLM for the Qinghai-Xizang (Tibetan) Plateau. <i>Cold Regions Science and Technology</i> , 2013, 87, 68-77.	3.5	51
72	Using analysis state to construct a forecast error covariance matrix in ensemble Kalman filter assimilation. <i>Advances in Atmospheric Sciences</i> , 2013, 30, 1303-1312.	4.3	8

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73	Effects of Topography on Assessing Wind Farm Impacts Using MODIS Data. <i>Earth Interactions</i> , 2013, 17, 1-18.	1.5	19
74	Development of a China Dataset of Soil Hydraulic Parameters Using Pedotransfer Functions for Land Surface Modeling. <i>Journal of Hydrometeorology</i> , 2013, 14, 869-887.	1.9	208
75	The impact of nitrogen and phosphorous limitation on the estimated terrestrial carbon balance and warming of land use change over the last 156 yr. <i>Earth System Dynamics</i> , 2013, 4, 333-345.	7.1	32
76	A China data set of soil properties for land surface modeling. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 212-224.	3.8	375
77	Assessing parameter importance of the Common Land Model based on qualitative and quantitative sensitivity analysis. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 3279-3293.	4.9	69
78	WHY WAS THE AUGUST 2010 ZHOUQU LANDSLIDE SO POWERFUL?. <i>Geography, Environment, Sustainability</i> , 2013, 6, 67-79.	1.3	0
79	Developed and developing world responsibilities for historical climate change and CO ₂ mitigation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12911-12915.	7.1	115
80	Correlations among leaf traits provide a significant constraint on the estimate of global gross primary production. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	54
81	A soil particle-size distribution dataset for regional land and climate modelling in China. <i>Geoderma</i> , 2012, 171-172, 85-91.	5.1	140
82	Maximum likelihood estimation of inflation factors on error covariance matrices for ensemble Kalman filter assimilation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012, 138, 263-273.	2.7	45
83	RAMI4PILPS: An intercomparison of formulations for the partitioning of solar radiation in land surface models. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	63
84	Limitations of nitrogen and phosphorous on the terrestrial carbon uptake in the 20th century. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	72
85	Sensitivity of simulated terrestrial carbon assimilation and canopy transpiration to different stomatal conductance and carbon assimilation schemes. <i>Climate Dynamics</i> , 2011, 36, 1037-1054.	3.8	33
86	Coupling a terrestrial biogeochemical model to the common land model. <i>Advances in Atmospheric Sciences</i> , 2011, 28, 1129-1142.	4.3	4
87	Reprocessing the MODIS Leaf Area Index products for land surface and climate modelling. <i>Remote Sensing of Environment</i> , 2011, 115, 1171-1187.	11.0	312
88	Simulation and evaluation of terrestrial ecosystem NPP with M-SDGVM over continental China. <i>Advances in Atmospheric Sciences</i> , 2010, 27, 427-442.	4.3	19
89	Spatial dependence of diurnal temperature range trends on precipitation from 1950 to 2004. <i>Climate Dynamics</i> , 2009, 32, 429-440.	3.8	139
90	Multiple time scale evaluation of the energy balance during the maize growing season, and a new reason for energy imbalance. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 108-117.	0.9	7

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91	Geographical characteristics of China's wetlands derived from remotely sensed data. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 723-738.	0.9	102
92	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.	4.3	11
93	Asymmetric response of maximum and minimum temperatures to soil emissivity change over the Northern African Sahel in a GCM. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	18
94	Assessment of surface air temperature over the Arctic Ocean in reanalysis and IPCC AR4 model simulations with IABP/POLES observations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	18
95	Dependence of Land Surface Albedo on Solar Zenith Angle: Observations and Model Parameterization. <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 2963-2982.	1.5	70
96	Impact of vegetation removal and soil aridation on diurnal temperature range in a semiarid region: Application to the Sahel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17937-17942.	7.1	151
97	Causes of the northern high-latitude land surface winter climate change. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	21
98	An improved algorithm of simulation on air-sea turbulent heat fluxes in China seas. <i>Chinese Journal of Oceanology and Limnology</i> , 2007, 25, 292-299.	0.7	0
99	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.	4.3	9
100	Treatment of Undercanopy Turbulence in Land Models. <i>Journal of Climate</i> , 2005, 18, 5086-5094.	3.2	44
101	Surface Boundary Conditions for Mesoscale Regional Climate Models. <i>Earth Interactions</i> , 2005, 9, 1-28.	1.5	50
102	Development of land surface albedo parameterization based on Moderate Resolution Imaging Spectroradiometer (MODIS) data. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	81
103	Comparison of seasonal and spatial variations of leaf area index and fraction of absorbed photosynthetically active radiation from Moderate Resolution Imaging Spectroradiometer (MODIS) and Common Land Model. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	111
104	A Two-Big-Leaf Model for Canopy Temperature, Photosynthesis, and Stomatal Conductance. <i>Journal of Climate</i> , 2004, 17, 2281-2299.	3.2	397
105	New land surface albedo parameterization based on MODIS data: preliminary result. , 2004, 5544, 55.		1
106	Validation of the energy budget of an alpine snowpack simulated by several snow models (Snow MIP) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.4	212
107	Comparison of seasonal and spatial variations of albedos from Moderate-Resolution Imaging Spectroradiometer (MODIS) and Common Land Model. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	120
108	The Common Land Model. <i>Bulletin of the American Meteorological Society</i> , 2003, 84, 1013-1024.	3.3	1,058

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109	Effects of Frozen Soil on Soil Temperature, Spring Infiltration, and Runoff: Results from the PILPS 2(d) Experiment at Valdai, Russia. <i>Journal of Hydrometeorology</i> , 2003, 4, 334-351.	1.9	150
110	Coupling of the Common Land Model to the NCAR Community Climate Model. <i>Journal of Climate</i> , 2002, 15, 1832-1854.	3.2	224
111	The Land Surface Climatology of the Community Land Model Coupled to the NCAR Community Climate Model*. <i>Journal of Climate</i> , 2002, 15, 3123-3149.	3.2	583
112	Validation of IAP94 land surface model over the Huaihe River basin with HUBEX field experiment data. <i>Advances in Atmospheric Sciences</i> , 2001, 18, 139-154.	4.3	1
113	The Representation of Snow in Land Surface Schemes: Results from PILPS 2(d). <i>Journal of Hydrometeorology</i> , 2001, 2, 7-25.	1.9	294
114	An unsaturated soil water flow problem and its numerical simulation. <i>Advances in Atmospheric Sciences</i> , 1999, 16, 183-196.	4.3	8
115	Sensitivity of ground heat flux to vegetation cover fraction and leaf area index. <i>Journal of Geophysical Research</i> , 1999, 104, 19505-19514.	3.3	36
116	Numerical simulation of an unsaturated flow equation. <i>Science in China Series D: Earth Sciences</i> , 1998, 41, 429-436.	0.9	12
117	A land surface model (IAP94) for climate studies Part II: Implementation and preliminary results of coupled model with IAP GCM. <i>Advances in Atmospheric Sciences</i> , 1998, 15, 47-62.	4.3	8
118	The Project for Intercomparison of Land-surface Parameterization Schemes (PILPS) Phase 2(c) Red-Arkansas River basin experiment:. <i>Global and Planetary Change</i> , 1998, 19, 115-135.	3.5	265
119	The Project for Intercomparison of Land-surface Parameterization Schemes (PILPS) phase 2(c) Red-Arkansas River basin experiment:. <i>Global and Planetary Change</i> , 1998, 19, 137-159.	3.5	82
120	The Project for Intercomparison of Land-surface Parameterization Schemes (PILPS) phase 2(c) Red-Arkansas River basin experiment:. <i>Global and Planetary Change</i> , 1998, 19, 161-179.	3.5	154
121	The role of root distribution for climate simulation over land. <i>Geophysical Research Letters</i> , 1998, 25, 4533-4536.	4.0	69
122	Sensitivity of Latent Heat Flux from PILPS Land-Surface Schemes to Perturbations of Surface Air Temperature. <i>Journals of the Atmospheric Sciences</i> , 1998, 55, 1909-1927.	1.7	38
123	Cabauw Experimental Results from the Project for Intercomparison of Land-Surface Parameterization Schemes. <i>Journal of Climate</i> , 1997, 10, 1194-1215.	3.2	296
124	A land surface model (IAP94) for climate studies part I: Formulation and validation in off-line experiments. <i>Advances in Atmospheric Sciences</i> , 1997, 14, 433-460.	4.3	169
125	Landcover change of yutian oasis using remote sensing. , 0, , .		0
126	A study project about variational assimilation method. , 0, , .		0