Weidong Guo

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7323952/publications.pdf

Version: 2024-02-01

60 papers	3,393 citations	304743 22 h-index	149698 56 g-index
85 all docs	85 docs citations	85 times ranked	4029 citing authors

#	Article	IF	Citations
1	Enhanced haze pollution by black carbon in megacities in China. Geophysical Research Letters, 2016, 43, 2873-2879.	4.0	590
2	Recent Third Poleâ€™s Rapid Warming Accompanies Cryospheric Melt and Water Cycle Intensification and Interactions between Monsoon and Environment: Multidisciplinary Approach with Observations, Modeling, and Analysis. Bulletin of the American Meteorological Society, 2019, 100, 423-444.	3.3	590
3	Dryland climate change: Recent progress and challenges. Reviews of Geophysics, 2017, 55, 719-778.	23.0	507
4	Seasonal evolution of the upperâ€tropospheric westerly jet core over East Asia. Geophysical Research Letters, 2006, 33, .	4.0	156
5	Severe summer heatwave and drought strongly reduced carbon uptake in Southern China. Scientific Reports, 2016, 6, 18813.	3.3	125
6	Effects of aerosolâ€“radiation interaction on precipitation during biomass-burning season in East China. Atmospheric Chemistry and Physics, 2016, 16, 10063-10082.	4.9	108
7	Influence of Tibetan Plateau snow cover on East Asian atmospheric circulation at medium-range time scales. Nature Communications, 2018, 9, 4243.	12.8	95
8	Impact of revegetation of the Loess Plateau of China on the regional growing season water balance. Hydrology and Earth System Sciences, 2020, 24, 515-533.	4.9	88
9	Calibrating and Evaluating Reanalysis Surface Temperature Error by Topographic Correction. Journal of Climate, 2008, 21, 1440-1446.	3.2	84
10	Long-term observation of air pollution-weather/climate interactions at the SORPES station: a review and outlook. Frontiers of Environmental Science and Engineering, 2016, 10, 1.	6.0	75
11	Spring Land Surface and Subsurface Temperature Anomalies and Subsequent Downstream Late Springâ€Summer Droughts/Floods in North America and East Asia. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5001-5019.	3.3	65
12	Observation analysis of landâ€atmosphere interactions over the Loess Plateau of northwest China. Journal of Geophysical Research, 2010, 115, .	3.3	61
13	A diagram for evaluating multiple aspects of model performance in simulating vector fields. Geoscientific Model Development, 2016, 9, 4365-4380.	3.6	61
14	A study of dust radiative feedback on dust cycle and meteorology over East Asia by a coupled regional climate-chemistry-aerosol model. Atmospheric Environment, 2013, 68, 54-63.	4.1	50
15	Satellite Chlorophyll Fluorescence and Soil Moisture Observations Lead to Advances in the Predictive Understanding of Global Terrestrial Coupled Carbonâ€Water Cycles. Global Biogeochemical Cycles, 2018, 32, 360-375.	4.9	42
16	The Nonradiative Effect Dominates Local Surface Temperature Change Caused by Afforestation in China. Journal of Climate, 2019, 32, 4445-4471.	3.2	42
17	Quantifying the contribution of land use change to surface temperature in the lower reaches of the Yangtze River. Atmospheric Chemistry and Physics, 2017, 17, 4989-4996.	4.9	41
18	Comparison of landâ€“atmosphere interaction at different surface types in the mid- to lower reaches of the Yangtze River valley. Atmospheric Chemistry and Physics, 2016, 16, 9875-9890.	4.9	34

#	Article	IF	Citations
19	Sensitivity of a regional climate model to land surface parameterization schemes for East Asian summer monsoon simulation. Climate Dynamics, 2016, 47, 2293-2308.	3.8	34
20	Impact of Initialized Land Surface Temperature and Snowpack on Subseasonal to Seasonal Prediction Project, Phase I (LS4P-I): organization and experimental design. Geoscientific Model Development, 2021, 14, 4465-4494.	3.6	31
21	Satellite-observed solar-induced chlorophyll fluorescence reveals higher sensitivity of alpine ecosystems to snow cover on the Tibetan Plateau. Agricultural and Forest Meteorology, 2019, 271, 126-134.	4.8	29
22	Observation-based estimation of aerosol-induced reduction of planetary boundary layer height. Advances in Atmospheric Sciences, 2017, 34, 1057-1068.	4.3	28
23	Responses of Australian Dryland Vegetation to the 2019 Heat Wave at a Subdaily Scale. Geophysical Research Letters, 2020, 47, e2019GL086569.	4.0	24
24	Comprehensive evaluation of satellite-based and reanalysis soil moisture products using in situ observations over China. Hydrology and Earth System Sciences, 2021, 25, 4209-4229.	4.9	21
25	Estimation of key surface parameters in semi-arid region and their impacts on improvement of surface fluxes simulation. Science China Earth Sciences, 2016, 59, 307-319.	5.2	20
26	Assimilation of Remotely Sensed LAI Into CLM4CN Using DART. Journal of Advances in Modeling Earth Systems, 2019, 11, 2768-2786.	3.8	20
27	Evaluating vector winds in the Asian-Australian monsoon region simulated by 37 CMIP5 models. Climate Dynamics, 2019, 53, 491-507.	3.8	20
28	Climatology of Tibetan Plateau vortices derived from multiple reanalysis datasets. Climate Dynamics, 2020, 55, 2237-2252.	3.8	20
29	The linkage between CMIP5 climate modelsâ€™ abilities to simulate precipitation and vector winds. Climate Dynamics, 2020, 54, 4953-4970.	3.8	18
30	Estimating global aerodynamic parameters in 1982â€“2017 using remote-sensing data and a turbulent transfer model. Remote Sensing of Environment, 2021, 260, 112428.	11.0	18
31	Exploring how groundwater buffers the influence of heatwaves on vegetation function during multi-year droughts. Earth System Dynamics, 2021, 12, 919-938.	7.1	18
32	Influence of the Maddenâ€“Julian oscillation on Tibetan Plateau snow cover at the intraseasonal time-scale. Scientific Reports, 2016, 6, 30456.	3.3	17
33	Comparison of different sequential assimilation algorithms for satellite-derived leaf area index using the Data Assimilation Research Testbed (version Lanai). Geoscientific Model Development, 2019, 12, 3119-3133.	3.6	17
34	Evaluation of CMIP6 models toward dynamical downscaling over 14 CORDEX domains. Climate Dynamics, 0, , .	3.8	16
35	Composite analysis of impacts of dust aerosols on surface atmospheric variables and energy budgets in a semiarid region of China. Journal of Geophysical Research D: Atmospheres, 2014, 119, 3107-3123.	3.3	15
36	Streamflow in the Columbia River Basin: Quantifying Changes Over the Period 1951â€“2008 and Determining the Drivers of Those Changes. Water Resources Research, 2019, 55, 6640-6652.	4.2	15

#	Article	IF	Citations
37	Do Uncertainties in the Reconstruction of Land Cover Affect the Simulation of Air Temperature and Rainfall in the CORDEX Region of East Asia?. Journal of Geophysical Research D: Atmospheres, 2019, 124, 3647-3670.	3.3	14
38	Tibetan Plateau v<scp>ortexâ€associated</scp> precipitation and its link with the Tibetan Plateau heating anomaly. International Journal of Climatology, 2021, 41, 6300-6313.	3.5	13
39	Assessing the performance of 33 CMIP6 models in simulating the large-scale environmental fields of tropical cyclones. Climate Dynamics, 2022, 58, 1683-1698.	3.8	13
40	Numerical study of impacts of soil moisture on the diurnal and seasonal cycles of sensible/latent heat fluxes over semi-arid region. Advances in Atmospheric Sciences, 2009, 26, 319-326.	4.3	12
41	The Biophysical Impacts of Deforestation on Precipitation: Results from the CMIP6 Model Intercomparison. Journal of Climate, 2022, 35, 3293-3311.	3.2	12
42	Rapid response of the East Asian trough to Tibetan Plateau snow cover. International Journal of Climatology, 2021, 41, 251-261.	3.5	11
43	Systematic bias of Tibetan Plateau snow cover in subseasonal-to-seasonal models. Cryosphere, 2020, 14, 3565-3579.	3.9	11
44	Representation of Stony Surfaceâ€Atmosphere Interactions in WRF Reduces Cold and Wet Biases for the Southern Tibetan Plateau. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035291.	3.3	11
45	Intraseasonal variability of Tibetan Plateau snow cover. International Journal of Climatology, 2020, 40, 3451-3466.	3.5	9
46	Does Dynamic Downscaling Modify the Projected Impacts of Stabilized 1.5Â°C and 2Â°C Warming on Hot Extremes Over China?. Geophysical Research Letters, 2021, 48, e2021GL092792.	4.0	9
47	Implementation and evaluation of a generalized radiative transfer scheme within canopy in the soilâ€vegetationâ€atmosphere transfer (SVAT) model. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12,145.	3.3	8
48	An improved multivariable integrated evaluation method and tool (MVIETool) v1.0 for multimodel intercomparison. Geoscientific Model Development, 2021, 14, 3079-3094.	3.6	8
49	Simulation of summer climate over Central Asia shows high sensitivity to different land surface schemes in WRF. Climate Dynamics, 2021, 57, 2249-2268.	3.8	8
50	Effects of spring Tibetan Plateau land temperature anomalies on early summer floods/droughts over the monsoon regions of South East Asia. Climate Dynamics, 0, , 1.	3.8	8
51	A new approach for parameter optimization in land surface model. Advances in Atmospheric Sciences, 2011, 28, 1056-1066.	4.3	7
52	An integrated evaluation of land surface energy fluxes over China in seven reanalysis/modeling products. Journal of Geophysical Research D: Atmospheres, 2017, 122, 8543-8566.	3.3	7
53	Vertical structure of Tibetan Plateau Vortex in boreal summer. Theoretical and Applied Climatology, 2021, 145, 427-440.	2.8	7
54	Improving Simulations of Vegetation Dynamics over the Tibetan Plateau: Role of Atmospheric Forcing Data and Spatial Resolution. Advances in Atmospheric Sciences, 2022, 39, 1115-1132.	4.3	6

#	Article	IF	Citations
55	Evaluation of coupled regional climate models in representing the local biophysical effects of afforestation over continental China. Journal of Climate, 2021, , 1-62.	3.2	5
56	Evaluating CEOP model performance in semi-arid region of China. Environmental Research Letters, 2012, 7, 025202.	5.2	4
57	The Great Ice Age cycles associated with the variation of the atmospheric heat engine efficiency. Science in China Series D: Earth Sciences, 2000, 43, 286-292.	0.9	2
58	Evaluating CEOP model performance with the observational data from Tongyu reference site, semi-arid region of China. Asia-Pacific Journal of Atmospheric Sciences, 2010, 46, 475-481.	2.3	2
59	Implementation and Evaluation of an Improved Lake Scheme in Beijing Climate Center Atmosphereâ€Vegetation Interaction Model. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031272.	3.3	1
60	Phenological and physiological responses of the terrestrial ecosystem to the 2019 drought event in Southwest China: Insights from satellite measurements and the SSiB2 model. International Journal of Applied Earth Observation and Geoinformation, 2022, 111, 102832.	1.9	1