Wen-Xin Zhang

List of Publications by Year
in descending order

46	2,418	393982	243296
papers	citations	19 h-index	44 g-index

66	66	66	3866
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Global Methane Budget 2000â€“2017. Earth System Science Data, 2020, 12, 1561-1623.	3.7	1,199
2	Variability in the sensitivity among model simulations of permafrost and carbon dynamics in the permafrost region between 1960 and 2009. Global Biogeochemical Cycles, 2016, 30, 1015-1037.	1.9	116
3	Patchy field sampling biases understanding of climate change impacts across the Arctic. Nature Ecology and Evolution, 2018, 2, 1443-1448.	3.4	112
4	Tundra shrubification and tree-line advance amplify arctic climate warming: results from an individual-based dynamic vegetation model. Environmental Research Letters, 2013, 8, 034023.	2.2	107
5	Soil moisture and hydrology projections of the permafrost region â€“ a model intercomparison. Cryosphere, 2020, 14, 445-459.	1.5	85
6	Biogeophysical feedbacks enhance the Arctic terrestrial carbon sink in regional Earth system dynamics. Biogeosciences, 2014, 11, 5503-5519.	1.3	53
7	Terrestrial ecosystem model performance in simulating productivity and its vulnerability to climate change in the northern permafrost region. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 430-446.	1.3	47
8	Cyclone Activity in the Arctic From an Ensemble of Regional Climate Models (Arctic CORDEX). Journal of Geophysical Research D: Atmospheres, 2018, 123, 2537-2554.	1.2	46
9	Simulation of dynamical interactions between soil freezing/thawing and salinization for improving water management in cold/arid agricultural region. Geoderma, 2019, 338, 325-342.	2.3	42
10	Evaluation of airâ€“soil temperature relationships simulated by land surface models during winter across the permafrost region. Cryosphere, 2016, 10, 1721-1737.	1.5	38
11	Assessing glacier retreat and its impact on water resources in a headwater of Yangtze River based on CMIP6 projections. Science of the Total Environment, 2021, 765, 142774.	3.9	38
12	Flood Monitoring in Rural Areas of the Pearl River Basin (China) Using Sentinel-1 SAR. Remote Sensing, 2021, 13, 1384.	1.8	38
13	Modelling present and future permafrost thermal regimes in Northeast Greenland. Cold Regions Science and Technology, 2018, 146, 199-213.	1.6	37
14	Drivers of the water use efficiency changes in China during 1982â€“2015. Science of the Total Environment, 2021, 799, 149145.	3.9	36
15	Selfâ€Amplifying Feedbacks Accelerate Greening and Warming of the Arctic. Geophysical Research Letters, 2018, 45, 7102-7111.	1.5	35
16	Future projections of cyclone activity in the Arctic for the 21st century from regional climate models (Arctic-CORDEX). Global and Planetary Change, 2019, 182, 103005.	1.6	32
17	Diagnostic and model dependent uncertainty of simulated Tibetan permafrost area. Cryosphere, 2016, 10, 287-306.	1.5	29
18	Assessment of model estimates of land-atmosphere CO₂ exchange across Northern Eurasia. Biogeosciences, 2015, 12, 4385-4405.	1.3	25

#	Article	IF	Citations
19	Model-data fusion to assess year-round CO2 fluxes for an arctic heath ecosystem in West Greenland (69Â°N). Agricultural and Forest Meteorology, 2019, 272-273, 176-186.	1.9	23
20	Rising methane emissions from northern wetlands associated with sea ice decline. Geophysical Research Letters, 2015, 42, 7214-7222.	1.5	20
21	Simulated high-latitude soil thermal dynamics during the past 4 decades. Cryosphere, 2016, 10, 179-192.	1.5	17
22	Fertilization effects on biomass production, nutrient leaching and budgets in four stand development stages of short rotation forest poplar. Forest Ecology and Management, 2017, 397, 18-26.	1.4	17
23	Changes in different land cover areas and NDVI values in northern latitudes from 1982 to 2015. Advances in Climate Change Research, 2021, 12, 456-465.	2.1	16
24	Water Migration and Segregated Ice Formation in Frozen Ground: Current Advances and Future Perspectives. Frontiers in Earth Science, 2022, 10, .	0.8	15
25	A strong mitigation scenario maintains climate neutrality of northern peatlands. One Earth, 2022, 5, 86-97.	3.6	14
26	Storage, patterns, and environmental controls of soil organic carbon stocks in the permafrost regions of the Northern Hemisphere. Science of the Total Environment, 2022, 828, 154464.	3.9	14
27	Global parameters sensitivity analysis of modeling water, energy and carbon exchange of an arid agricultural ecosystem. Agricultural and Forest Meteorology, 2019, 271, 295-306.	1.9	13
28	Processâ€Oriented Modeling of a High Arctic Tundra Ecosystem: Longâ€Term Carbon Budget and Ecosystem Responses to Interannual Variations of Climate. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 1178-1196.	1.3	12
29	Improved soil hydrological modeling with the implementation of salt-induced freezing point depression in CoupModel: Model calibration and validation. Journal of Hydrology, 2021, 596, 125693.	2.3	12
30	Methane budget estimates in Finland from the CarbonTracker Europe-CH₄ data assimilation system. Tellus, Series B: Chemical and Physical Meteorology, 2022, 71, 1565030.	0.8	11
31	Nitrogen transport in a tundra landscape: the effects of early and late growing season lateral N inputs on arctic soil and plant N pools and N2O fluxes. Biogeochemistry, 2022, 157, 69-84.	1.7	9
32	The Interplay of Recent Vegetation and Sea Ice Dynamicsâ€"Results From a Regional Earth System Model Over the Arctic. Geophysical Research Letters, 2020, 47, e2019GL085982.	1.5	7
33	Allocation of ecological water rights considering ecological networks in arid watersheds: A framework and case study of Tarim River basin. Agricultural Water Management, 2022, 267, 107636.	2.4	7
34	Modeling Panâ€Arctic Peatland Carbon Dynamics Under Alternative Warming Scenarios. Geophysical Research Letters, 2022, 49, .	1.5	7
35	Quantifying changes and drivers of runoff in the Kaidu River Basin associated with plausible climate scenarios. Journal of Hydrology: Regional Studies, 2021, 38, 100968.	1.0	6
36	Responses of Arctic cyclones to biogeophysical feedbacks under future warming scenarios in a regional Earth system model. Environmental Research Letters, 2021, 16, 064076.	2.2	5

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37	Projections of thermal growing season indices over China under global warming of 1.5 Â°C and 2.0 Â°C. Science of the Total Environment, 2021, 781, 146774.	3.9	5
38	Warming and Increased Respiration Have Transformed an Alpine Steppe Ecosystem on the Tibetan Plateau From a Carbon Dioxide Sink Into a Source. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	5
39	Direct and Legacy Effects of Spring Temperature Anomalies on Seasonal Productivity in Northern Ecosystems. Remote Sensing, 2022, 14, 2007.	1.8	5
40	Modelling impacts of lateral N flows and seasonal warming on an arctic footslope ecosystem N budget and N2O emissions based on species-level responses. Biogeochemistry, 2022, 158, 195-213.	1.7	4
41	Trends of intense cyclone activity in the Arctic from reanalyses data and regional climate models (Arctic-CORDEX). IOP Conference Series: Earth and Environmental Science, 2019, 231, 012003.	0.2	3
42	Coupled water transport and heat flux in seasonally frozen soils: uncertainties identification in multi-site calibration. Environmental Earth Sciences, 2020, 79, 1.	1.3	3
43	Spatiotemporal Changes in Mulberry-Dyke-Fish Ponds in the Guangdong-Hong Kong-Macao Greater Bay Area over the Past 40 Years. Water (Switzerland), 2021, 13, 2953.	1.2	3
44	Assessment of long-term water stress for ecosystems across China using the maximum entropy production theory-based evapotranspiration product. Journal of Cleaner Production, 2022, 349, 131414.	4.6	3
45	Projection of Precipitation Extremes and Flood Risk in the Chinaâ€“Pakistan Economic Corridor. Frontiers in Environmental Science, 0, 10, .	1.5	2
46	The altered drivers of evapotranspiration trends around the recent warming hiatus in China. International Journal of Climatology, 0, , .	1.5	0