

Wen-Xin Zhang

List of Publications by Year in descending order

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46
papers

2,418
citations

393982

19
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243296

44
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66
all docs

66
docs citations

66
times ranked

3866
citing authors

#	ARTICLE	IF	CITATIONS
1	Methane budget estimates in Finland from the CarbonTracker Europe-CH ₄ data assimilation system. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 71, 1565030.	0.8	11
2	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 N ₂ O fluxes. <i>Biogeochemistry</i> , 2022, 157, 69-84.	1.7	9
3	A strong mitigation scenario maintains climate neutrality of northern peatlands. <i>One Earth</i> , 2022, 5, 86-97.	3.6	14
4	Water Migration and Segregated Ice Formation in Frozen Ground: Current Advances and Future Perspectives. <i>Frontiers in Earth Science</i> , 2022, 10, .	0.8	15
5	Modelling impacts of lateral N flows and seasonal warming on an arctic footslope ecosystem N budget and N ₂ O emissions based on species-level responses. <i>Biogeochemistry</i> , 2022, 158, 195-213.	1.7	4
6	Assessment of long-term water stress for ecosystems across China using the maximum entropy production theory-based evapotranspiration product. <i>Journal of Cleaner Production</i> , 2022, 349, 131414.	4.6	3
7	Allocation of ecological water rights considering ecological networks in arid watersheds: A framework and case study of Tarim River basin. <i>Agricultural Water Management</i> , 2022, 267, 107636.	2.4	7
8	Storage, patterns, and environmental controls of soil organic carbon stocks in the permafrost regions of the Northern Hemisphere. <i>Science of the Total Environment</i> , 2022, 828, 154464.	3.9	14
9	Warming and Increased Respiration Have Transformed an Alpine Steppe Ecosystem on the Tibetan Plateau From a Carbon Dioxide Sink Into a Source. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	5
10	Direct and Legacy Effects of Spring Temperature Anomalies on Seasonal Productivity in Northern Ecosystems. <i>Remote Sensing</i> , 2022, 14, 2007.	1.8	5
11	Modeling Pan-Arctic Peatland Carbon Dynamics Under Alternative Warming Scenarios. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	7
12	Improved soil hydrological modeling with the implementation of salt-induced freezing point depression in CoupModel: Model calibration and validation. <i>Journal of Hydrology</i> , 2021, 596, 125693.	2.3	12
13	Assessing glacier retreat and its impact on water resources in a headwater of Yangtze River based on CMIP6 projections. <i>Science of the Total Environment</i> , 2021, 765, 142774.	3.9	38
14	Flood Monitoring in Rural Areas of the Pearl River Basin (China) Using Sentinel-1 SAR. <i>Remote Sensing</i> , 2021, 13, 1384.	1.8	38
15	Responses of Arctic cyclones to biogeophysical feedbacks under future warming scenarios in a regional Earth system model. <i>Environmental Research Letters</i> , 2021, 16, 064076.	2.2	5
16	Projections of thermal growing season indices over China under global warming of 1.5 °C and 2.0 °C. <i>Science of the Total Environment</i> , 2021, 781, 146774.	3.9	5
17	Changes in different land cover areas and NDVI values in northern latitudes from 1982 to 2015. <i>Advances in Climate Change Research</i> , 2021, 12, 456-465.	2.1	16
18	Drivers of the water use efficiency changes in China during 1982–2015. <i>Science of the Total Environment</i> , 2021, 799, 149145.	3.9	36

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19	Spatiotemporal Changes in Mulberry-Dyke-Fish Ponds in the Guangdong-Hong Kong-Macao Greater Bay Area over the Past 40 Years. <i>Water (Switzerland)</i> , 2021, 13, 2953.	1.2	3
20	Quantifying changes and drivers of runoff in the Kaidu River Basin associated with plausible climate scenarios. <i>Journal of Hydrology: Regional Studies</i> , 2021, 38, 100968.	1.0	6
21	Coupled water transport and heat flux in seasonally frozen soils: uncertainties identification in multi-site calibration. <i>Environmental Earth Sciences</i> , 2020, 79, 1.	1.3	3
22	The Interplay of Recent Vegetation and Sea Ice Dynamics—Results From a Regional Earth System Model Over the Arctic. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085982.	1.5	7
23	Soil moisture and hydrology projections of the permafrost region—a model intercomparison. <i>Cryosphere</i> , 2020, 14, 445-459.	1.5	85
24	The Global Methane Budget 2000–2017. <i>Earth System Science Data</i> , 2020, 12, 1561-1623.	3.7	1,199
25	Future projections of cyclone activity in the Arctic for the 21st century from regional climate models (Arctic-CORDEX). <i>Global and Planetary Change</i> , 2019, 182, 103005.	1.6	32
26	Model-data fusion to assess year-round CO ₂ fluxes for an arctic heath ecosystem in West Greenland (69°N). <i>Agricultural and Forest Meteorology</i> , 2019, 272-273, 176-186.	1.9	23
27	Global parameters sensitivity analysis of modeling water, energy and carbon exchange of an arid agricultural ecosystem. <i>Agricultural and Forest Meteorology</i> , 2019, 271, 295-306.	1.9	13
28	Trends of intense cyclone activity in the Arctic from reanalyses data and regional climate models (Arctic-CORDEX). <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 231, 012003.	0.2	3
29	Simulation of dynamical interactions between soil freezing/thawing and salinization for improving water management in cold/arid agricultural region. <i>Geoderma</i> , 2019, 338, 325-342.	2.3	42
30	Process-Oriented Modeling of a High Arctic Tundra Ecosystem: Long-Term Carbon Budget and Ecosystem Responses to Interannual Variations of Climate. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1178-1196.	1.3	12
31	Cyclone Activity in the Arctic From an Ensemble of Regional Climate Models (Arctic CORDEX). <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2537-2554.	1.2	46
32	Modelling present and future permafrost thermal regimes in Northeast Greenland. <i>Cold Regions Science and Technology</i> , 2018, 146, 199-213.	1.6	37
33	Self-Amplifying Feedbacks Accelerate Greening and Warming of the Arctic. <i>Geophysical Research Letters</i> , 2018, 45, 7102-7111.	1.5	35
34	Patchy field sampling biases understanding of climate change impacts across the Arctic. <i>Nature Ecology and Evolution</i> , 2018, 2, 1443-1448.	3.4	112
35	Terrestrial ecosystem model performance in simulating productivity and its vulnerability to climate change in the northern permafrost region. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 430-446.	1.3	47
36	Fertilization effects on biomass production, nutrient leaching and budgets in four stand development stages of short rotation forest poplar. <i>Forest Ecology and Management</i> , 2017, 397, 18-26.	1.4	17

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37	Evaluation of air–soil temperature relationships simulated by land surface models during winter across the permafrost region. <i>Cryosphere</i> , 2016, 10, 1721-1737.	1.5	38
38	Diagnostic and model dependent uncertainty of simulated Tibetan permafrost area. <i>Cryosphere</i> , 2016, 10, 287-306.	1.5	29
39	Simulated high-latitude soil thermal dynamics during the past 4 decades. <i>Cryosphere</i> , 2016, 10, 179-192.	1.5	17
40	Variability in the sensitivity among model simulations of permafrost and carbon dynamics in the permafrost region between 1960 and 2009. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1015-1037.	1.9	116
41	Rising methane emissions from northern wetlands associated with sea ice decline. <i>Geophysical Research Letters</i> , 2015, 42, 7214-7222.	1.5	20
42	Assessment of model estimates of land-atmosphere CO ₂ exchange across Northern Eurasia. <i>Biogeosciences</i> , 2015, 12, 4385-4405.	1.3	25
43	Biogeophysical feedbacks enhance the Arctic terrestrial carbon sink in regional Earth system dynamics. <i>Biogeosciences</i> , 2014, 11, 5503-5519.	1.3	53
44	Tundra shrubification and tree-line advance amplify arctic climate warming: results from an individual-based dynamic vegetation model. <i>Environmental Research Letters</i> , 2013, 8, 034023.	2.2	107
45	The altered drivers of evapotranspiration trends around the recent warming hiatus in China. <i>International Journal of Climatology</i> , 0, , .	1.5	0
46	Projection of Precipitation Extremes and Flood Risk in the China–Pakistan Economic Corridor. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	2