

# Wenzhe Jiao

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

5,213  
citations

126708

33  
h-index

88477

70  
g-index

80  
all docs

80  
docs citations

80  
times ranked

6430  
citing authors

#	ARTICLE	IF	CITATIONS
1	A modified isotope-based method for potential high-frequency evapotranspiration partitioning. <i>Advances in Water Resources</i> , 2022, 160, 104103.	1.7	4
2	Reconciling the isotope-based fog classification with meteorological conditions of different fog types. <i>Journal of Hydrology</i> , 2022, 605, 127321.	2.3	4
3	Stable isotope variations of dew under three different climates. <i>Scientific Data</i> , 2022, 9, 50.	2.4	0
4	Spatiotemporal Comparison of Drought in Shaanxiâ€“Gansuâ€“Ningxia from 2003 to 2020 Using Various Drought Indices in Google Earth Engine. <i>Remote Sensing</i> , 2022, 14, 1570.	1.8	23
5	Satellite observed vegetation dynamics and drivers in the Namib sand sea over the recent 20â€“years. <i>Ecohydrology</i> , 2022, 15, .	1.1	2
6	A new multi-variable integrated framework for identifying flash drought in the Loess Plateau and Qinling Mountains regions of China. <i>Agricultural Water Management</i> , 2022, 265, 107544.	2.4	8
7	Comprehensive Quantification of the Responses of Ecosystem Production and Respiration to Drought Time Scale, Intensity and Timing in Humid Environments: A FLUXNET Synthesis. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2022, 127, .	1.3	10
8	Increased Global Vegetation Productivity Despite Rising Atmospheric Dryness Over the Last Two Decades. <i>Earth's Future</i> , 2022, 10, .	2.4	32
9	Investigating the role of evaporation in dew formation under different climates using $^{17}\text{O}$ -excess. <i>Journal of Hydrology</i> , 2021, 592, 125847.	2.3	13
10	A semi-analytical algorithm for deriving the particle size distribution slope of turbid inland water based on OLCI data: A case study in Lake Hongze. <i>Environmental Pollution</i> , 2021, 270, 116288.	3.7	17
11	Dew formation reduction in global warming experiments and the potential consequences. <i>Journal of Hydrology</i> , 2021, 593, 125819.	2.3	16
12	Assessing variability of optimum air temperature for photosynthesis across site-years, sites and biomes and their effects on photosynthesis estimation. <i>Agricultural and Forest Meteorology</i> , 2021, 298-299, 108277.	1.9	8
13	A $^{2}\text{H}$ offset correction method for quantifying root water uptake of riparian trees. <i>Journal of Hydrology</i> , 2021, 593, 125811.	2.3	22
14	Multi-sensor remote sensing for drought characterization: current status, opportunities and a roadmap for the future. <i>Remote Sensing of Environment</i> , 2021, 256, 112313.	4.6	114
15	Observed increasing water constraint on vegetation growth over the last three decades. <i>Nature Communications</i> , 2021, 12, 3777.	5.8	246
16	Improved understanding of the spatially-heterogeneous relationship between satellite solar-induced chlorophyll fluorescence and ecosystem productivity. <i>Ecological Indicators</i> , 2021, 129, 107949.	2.6	10
17	Dew formation characteristics in the gravel desert ecosystem and its ecological roles on <i>Reaumuria soongorica</i> . <i>Journal of Hydrology</i> , 2021, 603, 126932.	2.3	16
18	Drought monitoring based on a new combined remote sensing index across the transitional area between humid and arid regions in China. <i>Atmospheric Research</i> , 2021, 264, 105850.	1.8	15

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19	No-till is challenged: Complementary management is crucial to improve its environmental benefits under a changing climate. <i>Geography and Sustainability</i> , 2020, 1, 229-232.	1.9	6
20	Triple isotope variations of monthly tap water in China. <i>Scientific Data</i> , 2020, 7, 336.	2.4	6
21	The potential contribution of soil moisture to fog formation in the Namib Desert. <i>Journal of Hydrology</i> , 2020, 591, 125326.	2.3	5
22	Assessing Meteorological and Agricultural Drought in Chitral Kabul River Basin Using Multiple Drought Indices. <i>Remote Sensing</i> , 2020, 12, 1417.	1.8	20
23	Satellite Observed Positive Impacts of Fog on Vegetation. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088428.	1.5	10
24	Quantifying the Controls on Evapotranspiration Partitioning in the Highest Alpine Meadow Ecosystem. <i>Water Resources Research</i> , 2020, 56, e2019WR024815.	1.7	28
25	The importance of cuticular permeance in assessing plant water use strategies. <i>Tree Physiology</i> , 2020, 40, 425-432.	1.4	10
26	Estimating site-specific optimum air temperature and assessing its effect on the photosynthesis of grasslands in mid- to high-latitudes. <i>Environmental Research Letters</i> , 2020, 15, 034064.	2.2	16
27	Canopy isotopic investigation reveals different water uptake dynamics of maples and oaks. <i>Phytochemistry</i> , 2020, 175, 112389.	1.4	34
28	Novel Keeling-plot-based methods to estimate the isotopic composition of ambient water vapor. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 4491-4501.	1.9	3
29	Intensified vegetation water use under acid deposition. <i>Science Advances</i> , 2019, 5, eaav5168.	4.7	26
30	Data Descriptor: Daily observations of stable isotope ratios of rainfall in the tropics. <i>Scientific Reports</i> , 2019, 9, 14419.	1.6	40
31	The Sensitivity of Satellite Solar-Induced Chlorophyll Fluorescence to Meteorological Drought. <i>Earth's Future</i> , 2019, 7, 558-573.	2.4	67
32	Spatial and temporal variations of tap water $\delta^{18}O$ -excess in China. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 260, 1-14.	1.6	30
33	Convergent vegetation fog and dew water use in the Namib Desert. <i>Ecohydrology</i> , 2019, 12, e2130.	1.1	37
34	Assessing consistency of spring phenology of snow-covered forests as estimated by vegetation indices, gross primary production, and solar-induced chlorophyll fluorescence. <i>Agricultural and Forest Meteorology</i> , 2019, 275, 305-316.	1.9	64
35	Response of ecosystem intrinsic water use efficiency and gross primary productivity to rising vapor pressure deficit. <i>Environmental Research Letters</i> , 2019, 14, 074023.	2.2	94
36	A new station-enabled multi-sensor integrated index for drought monitoring. <i>Journal of Hydrology</i> , 2019, 574, 169-180.	2.3	38

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37	Contribution of recycled moisture to local precipitation in the inland Heihe River Basin. <i>Agricultural and Forest Meteorology</i> , 2019, 271, 316-335.	1.9	42
38	A new multi-sensor integrated index for drought monitoring. <i>Agricultural and Forest Meteorology</i> , 2019, 268, 74-85.	1.9	123
39	Ecohydrological Controls on the Deposition of Non-rainfall Water, N, and P to Dryland Ecosystems. , 2019, , 121-137.		2
40	Stable isotope variations of daily precipitation from 2014â€“2018 in the central United States. <i>Scientific Data</i> , 2019, 6, 190018.	2.4	15
41	Enhanced canopy growth precedes senescence in 2005 and 2010 Amazonian droughts. <i>Remote Sensing of Environment</i> , 2018, 211, 26-37.	4.6	33
42	The impact of fog on soil moisture dynamics in the Namib Desert. <i>Advances in Water Resources</i> , 2018, 113, 23-29.	1.7	21
43	A comparative analysis of the NDVIg and NDVI3g in monitoring vegetation phenology changes in the Northern Hemisphere. <i>Geocarto International</i> , 2018, 33, 1-20.	1.7	25
44	Precipitation Origins and Key Drivers of Precipitation Isotope ( $\delta^{18}O$ , $\delta^2H$ , and $\delta^{17}O$ ) in the Northern Hemisphere. <i>Journal of Geophysical Research</i> , 2018, 123, 7311-7330.	1.2	26
45	Stable isotope compositions ( $\delta^{18}O$ , $\delta^2H$ and $\delta^{17}O$ ) of rainfall and snowfall in the central United States. <i>Scientific Reports</i> , 2018, 8, 6712.	1.6	69
46	Fog Spatial Distributions over the Central Namib Desert - An Isotope Approach. <i>Aerosol and Air Quality Research</i> , 2018, 18, 49-61.	0.9	13
47	Global synthesis of drought effects on cereal, legume, tuber and root crops production: A review. <i>Agricultural Water Management</i> , 2017, 179, 18-33.	2.4	238
48	Divergence of stable isotopes in tap water across China. <i>Scientific Reports</i> , 2017, 7, 43653.	1.6	30
49	Nonrainfall water origins and formation mechanisms. <i>Science Advances</i> , 2017, 3, e1603131.	4.7	79
50	Studying drought phenomena in the Continental United States in 2011 and 2012 using various drought indices. <i>Remote Sensing of Environment</i> , 2017, 190, 96-106.	4.6	182
51	Partitioning of evapotranspiration using a stable isotope technique in an arid and high temperature agricultural production system. <i>Agricultural Water Management</i> , 2017, 179, 103-109.	2.4	55
52	Effects of non-rainfall water inputs on ecosystem functions. <i>Wiley Interdisciplinary Reviews: Water</i> , 2017, 4, e1179.	2.8	72
53	Evaluating an Enhanced Vegetation Condition Index (VCI) Based on VIUPD for Drought Monitoring in the Continental United States. <i>Remote Sensing</i> , 2016, 8, 224.	1.8	85
54	The Impact of Rainfall on Soil Moisture Dynamics in a Foggy Desert. <i>PLoS ONE</i> , 2016, 11, e0164982.	1.1	25

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55	The increasing importance of atmospheric demand for ecosystem water and carbon fluxes. <i>Nature Climate Change</i> , 2016, 6, 1023-1027.	8.1	734
56	A multi-scale analysis of Namibian rainfall over the recent decade – comparing TMPA satellite estimates and ground observations. <i>Journal of Hydrology: Regional Studies</i> , 2016, 8, 59-68.	1.0	25
57	High atmospheric demand for water can limit forest carbon uptake and transpiration as severely as dry soil. <i>Geophysical Research Letters</i> , 2016, 43, 9686-9695.	1.5	163
58	Water vapor $\delta^2\text{H}$ , $\delta^{18}\text{O}$ and $\delta^{17}\text{O}$ measurements using an off-axis integrated cavity output spectrometer – sensitivity to water vapor concentration, delta value and averaging time. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 2077-2086.	0.7	21
59	Spatiotemporal dynamics of the climatic impacts on greenup date in the Tibetan Plateau. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	3
60	Significant Difference in Hydrogen Isotope Composition Between Xylem and Tissue Water in <i>Populus Euphratica</i> . <i>Plant, Cell and Environment</i> , 2016, 39, 1848-1857.	2.8	135
61	An Analysis of Precipitation Isotope Distributions across Namibia Using Historical Data. <i>PLoS ONE</i> , 2016, 11, e0154598.	1.1	27
62	Global Synthesis of Drought Effects on Maize and Wheat Production. <i>PLoS ONE</i> , 2016, 11, e0156362.	1.1	606
63	Dynamic interactions of ecohydrological and biogeochemical processes in water-limited systems. <i>Ecosphere</i> , 2015, 6, 1-27.	1.0	58
64	Global Synthesis of Drought Effects on Food Legume Production. <i>PLoS ONE</i> , 2015, 10, e0127401.	1.1	174
65	Global synthesis of vegetation control on evapotranspiration partitioning. <i>Geophysical Research Letters</i> , 2014, 41, 6753-6757.	1.5	285
66	Using atmospheric trajectories to model the isotopic composition of rainfall in central Kenya. <i>Ecosphere</i> , 2013, 4, 1-18.	1.0	61
67	Uncertainties in the assessment of the isotopic composition of surface fluxes: A direct comparison of techniques using laser-based water vapor isotope analyzers. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	58
68	Stable Isotopes of Water Vapor in the Vadose Zone: A Review of Measurement and Modeling Techniques. <i>Vadose Zone Journal</i> , 2012, 11, vjz2011.0165.	1.3	64
69	Characterizing ecohydrological and biogeochemical connectivity across multiple scales: a new conceptual framework. <i>Ecohydrology</i> , 2012, 5, 221-233.	1.1	17
70	Understanding ecohydrological connectivity in savannas: a system dynamics modelling approach. <i>Ecohydrology</i> , 2012, 5, 200-220.	1.1	31
71	The interactive nutrient and water effects on vegetation biomass at two African savannah sites with different mean annual precipitation. <i>African Journal of Ecology</i> , 2012, 50, 446-454.	0.4	12
72	Factors controlling spatial and seasonal distributions of precipitation $\delta^{18}\text{O}$ in China. <i>Hydrological Processes</i> , 2012, 26, 143-152.	1.1	47

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73	Combined effects of soil moisture and nitrogen availability variations on grass productivity in African savannas. <i>Plant and Soil</i> , 2010, 328, 95-108.	1.8	37
74	Patterns and implications of Plant-soil $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ values in African savanna ecosystems. <i>Quaternary Research</i> , 2010, 73, 77-83.	1.0	55
75	Soil $\text{CO}_2$ flux and its controls during secondary succession. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	9
76	Partitioning evapotranspiration across gradients of woody plant cover: Assessment of a stable isotope technique. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	179
77	Post-Fire Resource Redistribution in Desert Grasslands: A Possible Negative Feedback on Land Degradation. <i>Ecosystems</i> , 2009, 12, 434-444.	1.6	104
78	On the calibration of continuous, high-precision $\delta^{18}\text{O}$ and $\delta^2\text{H}$ measurements using an off-axis integrated cavity output spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 530-536.	0.7	78