

Zhongwang Wei

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,361
citations

430874

18
h-index

345221

36
g-index

54
all docs

54
docs citations

54
times ranked

2024
citing authors

#	ARTICLE	IF	CITATIONS
1	Multistep Forecasting of Soil Moisture Using Spatiotemporal Deep Encoder–Decoder Networks. <i>Journal of Hydrometeorology</i> , 2022, , .	1.9	3
2	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
3	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
4	Characterizing the groundwater storage–discharge relationship of small catchments in China. <i>Hydrology Research</i> , 2022, 53, 782-794.	2.7	3
5	Global assessment of partitioning transpiration from evapotranspiration based on satellite solar-induced chlorophyll fluorescence data. <i>Journal of Hydrology</i> , 2022, 612, 128044.	5.4	13
6	Causality-Structured Deep Learning for Soil Moisture Predictions. <i>Journal of Hydrometeorology</i> , 2022, 23, 1315-1331.	1.9	2
7	Deforestation-induced warming over tropical mountain regions regulated by elevation. <i>Nature Geoscience</i> , 2021, 14, 23-29.	12.9	73
8	Determining the Isotopic Composition of Surface Water Vapor Flux From High–Frequency Observations Using Flux–Gradient and Keeling Plot Methods. <i>Earth and Space Science</i> , 2021, 8, e2020EA001304.	2.6	2
9	Acceleration of western Arctic sea ice loss linked to the Pacific North American pattern. <i>Nature Communications</i> , 2021, 12, 1519.	12.8	27
10	Climate-informed hydrologic modeling and policy typology to guide managed aquifer recharge. <i>Science Advances</i> , 2021, 7, .	10.3	24
11	Reducing Solar Radiation Forcing Uncertainty and Its Impact on Surface Energy and Water Fluxes. <i>Journal of Hydrometeorology</i> , 2021, 22, 813-829.	1.9	2
12	Impacts of Continuously Increasing Urbanization Ratios on Warming Rates and Temperature Extremes Observed Over the Beijing Area. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034536.	3.3	6
13	New Representation of Plant Hydraulics Improves the Estimates of Transpiration in Land Surface Model. <i>Forests</i> , 2021, 12, 722.	2.1	3
14	A framework for quantifying hydrologic effects of soil structure across scales. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	24
15	Can we use precipitation isotope outputs of isotopic general circulation models to improve hydrological modeling in large mountainous catchments on the Tibetan Plateau?. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 6151-6172.	4.9	14
16	Development of Hierarchical Ensemble Model and Estimates of Soil Water Retention With Global Coverage. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088819.	4.0	10
17	Transpiration and evaporation of grassland using land surface modelling. <i>Hydrological Processes</i> , 2020, 34, 3656-3668.	2.6	5
18	Identification of uncertainty sources in quasi-global discharge and inundation simulations using satellite-based precipitation products. <i>Journal of Hydrology</i> , 2020, 589, 125180.	5.4	9

#	ARTICLE	IF	CITATIONS
19	Quantifying the Controls on Evapotranspiration Partitioning in the Highest Alpine Meadow Ecosystem. <i>Water Resources Research</i> , 2020, 56, e2019WR024815.	4.2	28
20	Attribution of the land surface temperature response to land-use conversions from bare land. <i>Global and Planetary Change</i> , 2020, 193, 103268.	3.5	13
21	Determinants of the Asymmetric Parameter in the Generalized Complementary Principle of Evaporation. <i>Water Resources Research</i> , 2020, 56, e2019WR026570.	4.2	25
22	A Global Drought and Flood Catalogue from 1950 to 2016. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E508-E535.	3.3	98
23	Contrasting Influences of Human Activities on Hydrological Drought Regimes Over China Based on High-Resolution Simulations. <i>Water Resources Research</i> , 2020, 56, e2019WR025843.	4.2	62
24	Physical Constraints for Improved Soil Hydraulic Parameter Estimation by Pedotransfer Functions. <i>Water Resources Research</i> , 2020, 56, e2019WR025963.	4.2	15
25	The utility of near-surface water vapor deuterium excess as an indicator of atmospheric moisture source. <i>Journal of Hydrology</i> , 2019, 577, 123923.	5.4	15
26	Modeling Investigation of Diurnal Variations in Water Flux and Its Components with Stable Isotopic Tracers. <i>Atmosphere</i> , 2019, 10, 403.	2.3	1
27	Determinants of the ratio of actual to potential evapotranspiration. <i>Global Change Biology</i> , 2019, 25, 1326-1343.	9.5	39
28	Impact of Large-Scale Afforestation on Surface Temperature: A Case Study in the Kubuqi Desert, Inner Mongolia Based on the WRF Model. <i>Forests</i> , 2019, 10, 368.	2.1	9
29	Evapotranspiration Characteristics Distinct to Mangrove Ecosystems Are Revealed by Multiple-Site Observations and a Modified Two-Source Model. <i>Water Resources Research</i> , 2019, 55, 11250-11273.	4.2	9
30	Dynamical effects of plastic mulch on evapotranspiration partitioning in a mulched agriculture ecosystem: Measurement with numerical modeling. <i>Agricultural and Forest Meteorology</i> , 2019, 268, 98-108.	4.8	19
31	A global database of water vapor isotopes measured with high temporal resolution infrared laser spectroscopy. <i>Scientific Data</i> , 2019, 6, 180302.	5.3	31
32	Evapotranspiration partitioning for three agro-ecosystems with contrasting moisture conditions: a comparison of an isotope method and a two-source model calculation. <i>Agricultural and Forest Meteorology</i> , 2018, 252, 296-310.	4.8	65
33	Response of Surface Temperature to Afforestation in the Kubuqi Desert, Inner Mongolia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 948-964.	3.3	36
34	Influences of large-scale convection and moisture source on monthly precipitation isotope ratios observed in Thailand, Southeast Asia. <i>Earth and Planetary Science Letters</i> , 2018, 488, 181-192.	4.4	58
35	Influences of Extreme Weather Conditions on the Carbon Cycles of Bamboo and Tea Ecosystems. <i>Forests</i> , 2018, 9, 629.	2.1	12
36	ISOLESC: A Coupled Isotope-LSM-LES-Cloud Modeling System to Investigate the Water Budget in the Atmospheric Boundary Layer. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 2589-2617.	3.8	6

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37	Evapotranspiration partitioning at the ecosystem scale using the stable isotope methodâ€”A review. <i>Agricultural and Forest Meteorology</i> , 2018, 263, 346-361.	4.8	67
38	A multiple time scale modeling investigation of leaf water isotope enrichment in a temperate grassland ecosystem. <i>Ecological Research</i> , 2018, 33, 901-915.	1.5	8
39	Influences of Root Hydraulic Redistribution on N ₂ O Emissions at AmeriFlux Sites. <i>Geophysical Research Letters</i> , 2018, 45, 5135-5143.	4.0	12
40	Revisiting the contribution of transpiration to global terrestrial evapotranspiration. <i>Geophysical Research Letters</i> , 2017, 44, 2792-2801.	4.0	308
41	A Meta-Analysis of Open-Path Eddy Covariance Observations of Apparent CO ₂ Flux in Cold Conditions in FLUXNET. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 2475-2487.	1.3	9
42	Spatial patterns of ENSO's interannual influences on lilacs vary with time and periodicity. <i>Atmospheric Research</i> , 2017, 186, 95-106.	4.1	7
43	Understanding the variability of water isotopologues in near-surface atmospheric moisture over a humid subtropical rice paddy in Tsukuba, Japan. <i>Journal of Hydrology</i> , 2016, 533, 91-102.	5.4	34
44	Drag and Bulk Transfer Coefficients Over Water Surfaces in Light Winds. <i>Boundary-Layer Meteorology</i> , 2016, 160, 319-346.	2.3	18
45	Partitioning evapotranspiration in a temperate grassland ecosystem: Numerical modeling with isotopic tracers. <i>Agricultural and Forest Meteorology</i> , 2015, 208, 16-31.	4.8	49
46	Partitioning of evapotranspiration using high-frequency water vapor isotopic measurement over a rice paddy field. <i>Water Resources Research</i> , 2015, 51, 3716-3729.	4.2	63
47	INVESTIGATING VEGETATION-ATMOSPHERE WATER EXCHANGE BY USING HIGH FREQUENCY SPECTROSCOPY VAPOR ISOTOPE OBSERVATIONS. <i>Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic)</i> Tj ETQq1 1 0.784314.rgBT /Oerlock 10	1.4	10
48	Evaporation from Lake Kasumigaura: annual totals and variability in time and space. <i>Hydrological Research Letters</i> , 2014, 8, 103-107.	0.5	19