

Pei Wang

List of Publications by Year in descending order

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70
papers

3,855
citations

159585

30
h-index

128289

60
g-index

70
all docs

70
docs citations

70
times ranked

4314
citing authors

#	ARTICLE	IF	CITATIONS
1	The increasing importance of atmospheric demand for ecosystem water and carbon fluxes. <i>Nature Climate Change</i> , 2016, 6, 1023-1027.	18.8	734
2	Revisiting the contribution of transpiration to global terrestrial evapotranspiration. <i>Geophysical Research Letters</i> , 2017, 44, 2792-2801.	4.0	308
3	Global synthesis of vegetation control on evapotranspiration partitioning. <i>Geophysical Research Letters</i> , 2014, 41, 6753-6757.	4.0	285
4	Differentiating drought legacy effects on vegetation growth over the temperate Northern Hemisphere. <i>Global Change Biology</i> , 2018, 24, 504-516.	9.5	233
5	Partitioning evapotranspiration across gradients of woody plant cover: Assessment of a stable isotope technique. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	179
6	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.	4.0	163
7	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.	5.7	135
8	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.	11.0	114
9	Direct quantification of leaf transpiration isotopic composition. <i>Agricultural and Forest Meteorology</i> , 2012, 154-155, 127-135.	4.8	87
10	Evaporation and surface energy budget over the largest high-altitude saline lake on the Qinghai-Tibet Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 10,470.	3.3	79
11	The effect of warming on grassland evapotranspiration partitioning using laser-based isotope monitoring techniques. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 111, 28-38.	3.9	67
12	N-nitrosodimethylamine (NDMA) formation potential of amine-based water treatment polymers: Effects of in situ chloramination, breakpoint chlorination, and pre-oxidation. <i>Journal of Hazardous Materials</i> , 2015, 282, 133-140.	12.4	66
13	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
14	Shrub encroachment alters the spatial patterns of infiltration. <i>Ecohydrology</i> , 2015, 8, 83-93.	2.4	57
15	Comparing methods for partitioning a decade of carbon dioxide and water vapor fluxes in a temperate forest. <i>Agricultural and Forest Meteorology</i> , 2016, 226-227, 229-245.	4.8	56
16	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.	5.6	55
17	Evapotranspiration and its dominant controls along an elevation gradient in the Qinghai Lake watershed, northeast Qinghai-Tibet Plateau. <i>Journal of Hydrology</i> , 2019, 575, 257-268.	5.4	51
18	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

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19	Application of a two-source model for partitioning evapotranspiration and assessing its controls in temperate grasslands in central Japan. <i>Ecohydrology</i> , 2014, 7, 345-353.	2.4	42
20	Divergent evapotranspiration partition dynamics between shrubs and grasses in a shrub-encroached steppe ecosystem. <i>New Phytologist</i> , 2018, 219, 1325-1337.	7.3	42
21	Contribution of recycled moisture to local precipitation in the inland Heihe River Basin. <i>Agricultural and Forest Meteorology</i> , 2019, 271, 316-335.	4.8	42
22	Atmospheric Water Demand Dominates Daily Variations in Water Use Efficiency in Alpine Meadows, Northeastern Tibetan Plateau. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 2174-2185.	3.0	40
23	Seasonal divergence in the sensitivity of evapotranspiration to climate and vegetation growth in the Yellow River Basin, China. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 103-118.	3.0	39
24	Uneven winter snow influence on tree growth across temperate China. <i>Global Change Biology</i> , 2019, 25, 144-154.	9.5	39
25	Differences in water-use strategies along an aridity gradient between two coexisting desert shrubs (<i>Reaumuria soongorica</i> and <i>Nitraria sphaerocarpa</i>): isotopic approaches with physiological evidence. <i>Plant and Soil</i> , 2017, 419, 169-187.	3.7	38
26	Influence of enclosure on CT-measured soil macropores and root architecture in a shrub-encroached grassland in northern China. <i>Soil and Tillage Research</i> , 2019, 187, 21-30.	5.6	37
27	Water use characteristics of the common tree species in different plantation types in the Loess Plateau of China. <i>Agricultural and Forest Meteorology</i> , 2020, 288-289, 108020.	4.8	35
28	Qinghai Lake Basin Critical Zone Observatory on the Qinghai-Tibet Plateau. <i>Vadose Zone Journal</i> , 2018, 17, 1-11.	2.2	34
29	Higher temperature variability reduces temperature sensitivity of vegetation growth in Northern Hemisphere. <i>Geophysical Research Letters</i> , 2017, 44, 6173-6181.	4.0	33
30	Studies on the Relationships Between Land Surface Temperature and Environmental Factors in an Inland River Catchment Based on Geographically Weighted Regression and MODIS Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2012, 5, 687-698.	4.9	31
31	Understanding ecohydrological connectivity in savannas: a system dynamics modelling approach. <i>Ecohydrology</i> , 2012, 5, 200-220.	2.4	31
32	Modelling diurnal and seasonal hysteresis phenomena of canopy conductance in an oasis forest ecosystem. <i>Agricultural and Forest Meteorology</i> , 2017, 246, 98-110.	4.8	31
33	Multiple Methods to Partition Evapotranspiration in a Maize Field. <i>Journal of Hydrometeorology</i> , 2017, 18, 139-149.	1.9	30
34	Linking 3-D soil macropores and root architecture to near saturated hydraulic conductivity of typical meadow soil types in the Qinghai Lake Watershed, northeastern Qinghai-Tibet Plateau. <i>Catena</i> , 2020, 185, 104287.	5.0	30
35	Quantifying plant transpiration and canopy conductance using eddy flux data: An underlying water use efficiency method. <i>Agricultural and Forest Meteorology</i> , 2019, 271, 375-384.	4.8	29
36	Exposures to temperature beyond threshold disproportionately reduce vegetation growth in the northern hemisphere. <i>National Science Review</i> , 2019, 6, 786-795.	9.5	29

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37	Quantifying the Controls on Evapotranspiration Partitioning in the Highest Alpine Meadow Ecosystem. <i>Water Resources Research</i> , 2020, 56, e2019WR024815.	4.2	28
38	Energy distribution during the quasi-static confined comminution of granular materials. <i>Acta Geotechnica</i> , 2018, 13, 1075-1083.	5.7	26
39	Influence of shrub roots on soil macropores using X-ray computed tomography in a shrub-encroached grassland in Northern China. <i>Journal of Soils and Sediments</i> , 2019, 19, 1970-1980.	3.0	25
40	Numerical modeling the isotopic composition of evapotranspiration in an arid artificial oasis cropland ecosystem with high-frequency water vapor isotope measurement. <i>Agricultural and Forest Meteorology</i> , 2016, 230-231, 79-88.	4.8	24
41	Variations and controlling factors of vegetation dynamics on the Qingzang Plateau of China over the recent 20 years. <i>Geography and Sustainability</i> , 2021, 2, 74-85.	4.3	23
42	Effects of revegetation on soil moisture under different precipitation gradients in the Loess Plateau, China. <i>Hydrology Research</i> , 2017, 48, 1378-1390.	2.7	22
43	Seasonality of the Transpiration Fraction and Its Controls Across Typical Ecosystems Within the Heihe River Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1277-1291.	3.3	22
44	Responses of soil respiration to rainfall addition in a desert ecosystem: Linking physiological activities and rainfall pattern. <i>Science of the Total Environment</i> , 2019, 650, 3007-3016.	8.0	22
45	The Limits of Water Pumps. <i>Science</i> , 2008, 321, 36-37.	12.6	21
46	Measurements and Modeling of the Water Budget in Semiarid High-Altitude Qinghai Lake Basin, Northeast Qinghai-Tibet Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 10,857.	3.3	21
47	Weakening Relationship Between Vegetation Growth Over the Tibetan Plateau and Large-Scale Climate Variability. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1247-1259.	3.0	19
48	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
49	Simple and Applicable Method for Estimating Evapotranspiration and Its Components in Arid Regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 9963-9982.	3.3	18
50	Characterizing ecohydrological and biogeochemical connectivity across multiple scales: a new conceptual framework. <i>Ecohydrology</i> , 2012, 5, 221-233.	2.4	17
51	Causes of decreased reference evapotranspiration and pan evaporation in the Jinghe River catchment, northern China. <i>The Environmentalist</i> , 2012, 32, 1-10.	0.7	17
52	Oxidation of Antibiotic Agent Trimethoprim by Chlorine Dioxide: Reaction Kinetics and Pathways. <i>Journal of Environmental Engineering, ASCE</i> , 2012, 138, 360-366.	1.4	14
53	Stable water isotope and surface heat flux simulation using ISOLSM: Evaluation against in-situ measurements. <i>Journal of Hydrology</i> , 2015, 523, 67-78.	5.4	14
54	Compensation effect of winter snow on larch growth in Northeast China. <i>Climatic Change</i> , 2021, 164, 1.	3.6	14

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55	Investigating the role of evaporation in dew formation under different climates using $\delta^{18}\text{O}$ -excess. <i>Journal of Hydrology</i> , 2021, 592, 125847.	5.4	13
56	Vegetation dynamics dominate the energy flux partitioning across typical ecosystem in the Heihe River Basin: Observation with numerical modeling. <i>Journal of Chinese Geography</i> , 2019, 29, 1565-1577.	3.9	10
57	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
58	Responses of two desert shrubs to simulated rainfall pulses in an arid environment, northwestern China. <i>Plant and Soil</i> , 2019, 435, 239-255.	3.7	7
59	Precipitation Gradient Drives Divergent Relationship between Non-Structural Carbohydrates and Water Availability in <i>Pinus tabulaeformis</i> of Northern China. <i>Forests</i> , 2021, 12, 133.	2.1	7
60	Seasonal Divergent Tree Growth Trends and Growth Variability along Drought Gradient over Northeastern China. <i>Forests</i> , 2019, 10, 39.	2.1	5
61	Transpiration and evaporation of grassland using land surface modelling. <i>Hydrological Processes</i> , 2020, 34, 3656-3668.	2.6	5
62	Coupling the water use of <i>Populus euphratica</i> and <i>Tamarix ramosissima</i> and evapotranspiration partitioning in a desert riparian forest ecosystem. <i>Agricultural and Forest Meteorology</i> , 2022, 323, 109064.	4.8	5
63	A modified isotope-based method for potential high-frequency evapotranspiration partitioning. <i>Advances in Water Resources</i> , 2022, 160, 104103.	3.8	4
64	Diurnal Evapotranspiration and Its Controlling Factors of Alpine Ecosystems during the Growing Season in Northeast Qinghai-Tibet Plateau. <i>Water (Switzerland)</i> , 2022, 14, 700.	2.7	4
65	A Novel Approach for the Simulation of Reference Evapotranspiration and Its Partitioning. <i>Agriculture (Switzerland)</i> , 2021, 11, 385.	3.1	3
66	Seasonal variations in water flux compositions controlled by leaf development: isotopic insights at the canopy-atmosphere interface. <i>International Journal of Biometeorology</i> , 2021, 65, 1719-1732.	3.0	3
67	Shrub encroachment effect on the evapotranspiration and its component—A numerical simulation study of a shrub encroachment grassland in Nei Mongol, China. <i>Chinese Journal of Plant Ecology</i> , 2017, 41, 348-358.	0.6	3
68	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.	4.9	3
69	Modeling Investigation of Diurnal Variations in Water Flux and Its Components with Stable Isotopic Tracers. <i>Atmosphere</i> , 2019, 10, 403.	2.3	1
70	Stable isotope variations of dew under three different climates. <i>Scientific Data</i> , 2022, 9, 50.	5.3	0