

Huizhi Liu

List of Publications by Year in descending order

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62
papers

1,446
citations

393982

19
h-index

344852

36
g-index

62
all docs

62
docs citations

62
times ranked

2005
citing authors

#	ARTICLE	IF	CITATIONS
1	Turbulent Flux Transfer over Bare-Soil Surfaces: Characteristics and Parameterization. <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 276-290.	0.6	163
2	The Third Atmospheric Scientific Experiment for Understanding the Earth's Atmosphere Coupled System over the Tibetan Plateau and Its Effects. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 757-776.	1.7	128
3	Sensitivity of Land Surface Simulations to Model Physics, Land Characteristics, and Forcings, at Four CEOP Sites. <i>Journal of the Meteorological Society of Japan</i> , 2007, 85A, 187-204.	0.7	97
4	Comparison between static chamber and tunable diode laser-based eddy covariance techniques for measuring nitrous oxide fluxes from a cotton field. <i>Agricultural and Forest Meteorology</i> , 2013, 171-172, 9-19.	1.9	97
5	Multiyear precipitation reduction strongly decreases carbon uptake over northern China. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 881-896.	1.3	79
6	Relationships between surface albedo, soil thermal parameters and soil moisture in the semi-arid area of Tongyu, northeastern China. <i>Advances in Atmospheric Sciences</i> , 2008, 25, 757-764.	1.9	72
7	Seven years of carbon dioxide exchange over a degraded grassland and a cropland with maize ecosystems in a semiarid area of China. <i>Agriculture, Ecosystems and Environment</i> , 2013, 173, 1-12.	2.5	52
8	Observational and numerical studies of wintertime urban boundary layer. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2000, 87, 243-258.	1.7	41
9	Analysis of land surface parameters and turbulence characteristics over the Tibetan Plateau and surrounding region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9540-9560.	1.2	41
10	Eddy covariance measurements of water vapor and CO ₂ fluxes above the Erhai Lake. <i>Science China Earth Sciences</i> , 2015, 58, 317-328.	2.3	37
11	The Tibetan Plateau Surface-Atmosphere Coupling System and Its Weather and Climate Effects: The Third Tibetan Plateau Atmospheric Science Experiment. <i>Journal of Meteorological Research</i> , 2019, 33, 375-399.	0.9	36
12	Effects of the conversion of marshland to cropland on water and energy exchanges in northeastern China. <i>Journal of Hydrology</i> , 2008, 355, 181-191.	2.3	34
13	Effect of grazing intensity on evapotranspiration in the semiarid grasslands of Inner Mongolia, China. <i>Journal of Arid Environments</i> , 2012, 83, 15-24.	1.2	34
14	Three-year variations of water, energy and CO ₂ fluxes of cropland and degraded grassland surfaces in a semi-arid area of Northeastern China. <i>Advances in Atmospheric Sciences</i> , 2008, 25, 1009-1020.	1.9	32
15	Evaluation of the WRF lake model over a highland freshwater lake in southwest China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 13,989.	1.2	32
16	The effect of phenology on the carbon exchange process in grassland and maize cropland ecosystems across a semiarid area of China. <i>Science of the Total Environment</i> , 2019, 695, 133868.	3.9	24
17	Three-year changes of surface albedo of degraded grassland and cropland surfaces in a semiarid area. <i>Science Bulletin</i> , 2008, 53, 1246-1254.	4.3	21
18	Factors controlling evaporation and the CO ₂ flux over an open water lake in southwest of China on multiple temporal scales. <i>International Journal of Climatology</i> , 2018, 38, 4723-4739.	1.5	21

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19	Turbulence Spectra And Dissipation Rates Above And Within A Forest Canopy. <i>Boundary-Layer Meteorology</i> , 2001, 98, 83-102.	1.2	19
20	Surface characteristics of grasslands in Inner Mongolia as detected by micrometeorological measurements. <i>International Journal of Biometeorology</i> , 2008, 52, 563-574.	1.3	19
21	Land-air interaction over arid/semi-arid areas in China and its impact on the east Asian summer monsoon. Part I: Calibration of the land surface model (BATS) using multicriteria methods. <i>Advances in Atmospheric Sciences</i> , 2009, 26, 1088-1098.	1.9	19
22	A review of water tank modeling of the convective atmospheric boundary layer. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2011, 99, 1099-1114.	1.7	18
23	Grazing intensity effects on the partitioning of evapotranspiration in the semiarid typical steppe ecosystems in Inner Mongolia. <i>International Journal of Climatology</i> , 2016, 36, 4130-4140.	1.5	18
24	Water and CO ₂ fluxes over semiarid alpine steppe and humid alpine meadow ecosystems on the Tibetan Plateau. <i>Theoretical and Applied Climatology</i> , 2018, 131, 547-556.	1.3	18
25	The assessment of the planetary boundary layer schemes in WRF over the central Tibetan Plateau. <i>Atmospheric Research</i> , 2019, 230, 104644.	1.8	18
26	Seasonal and inter-annual variation of surface roughness length and bulk transfer coefficients in a semiarid area. <i>Science China Earth Sciences</i> , 2012, 55, 254-261.	2.3	17
27	Analyses of turbulence parameters in the near-surface layer at Qamdo of the Southeastern Tibetan Plateau. <i>Advances in Atmospheric Sciences</i> , 2003, 20, 369-378.	1.9	16
28	Carbon dioxide exchange processes over the grassland ecosystems in semiarid areas of China. <i>Science China Earth Sciences</i> , 2012, 55, 644-655.	2.3	16
29	A Field Experiment on the Small-Scale Variability of Rainfall Based on a Network of Micro Rain Radars and Rain Gauges. <i>Journal of Applied Meteorology and Climatology</i> , 2015, 54, 243-255.	0.6	16
30	Raindrop Size Distribution Characteristics for Tropical Cyclones and Meiyu-Baiu Fronts Impacting Tokyo, Japan. <i>Atmosphere</i> , 2019, 10, 391.	1.0	16
31	Water and carbon dioxide fluxes over an alpine meadow in southwest China and the impact of a spring drought event. <i>International Journal of Biometeorology</i> , 2016, 60, 195-205.	1.3	15
32	Numerical simulation and data assimilation of the water-energy cycle over semiarid northeastern China. <i>Science China Earth Sciences</i> , 2014, 57, 2340-2356.	2.3	12
33	The surface energy budget and interannual variation of the annual total evaporation over a highland lake in Southwest China. <i>Theoretical and Applied Climatology</i> , 2016, 126, 303-312.	1.3	12
34	Effects of different gap filling methods and land surface energy balance closure on annual net ecosystem exchange in a semiarid area of China. <i>Science China Earth Sciences</i> , 2014, 57, 1340-1351.	2.3	11
35	The vertical distribution characteristics of integral turbulence statistics in the atmospheric boundary layer over an urban area in Beijing. <i>Science China Earth Sciences</i> , 2017, 60, 1533-1545.	2.3	11
36	Biophysical effects on the interannual variation in carbon dioxide exchange of an alpine meadow on the Tibetan Plateau. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 5119-5129.	1.9	11

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37	Simulation of the radiative effect of haze on the urban hydrological cycle using reanalysis data in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7001-7017.	1.9	11
38	Using a Modified Soil-Plant-Atmosphere Scheme (MSPAS) to simulate the interaction between land surface processes and atmospheric boundary layer in semi-arid regions. <i>Advances in Atmospheric Sciences</i> , 2004, 21, 245-259.	1.9	10
39	The monsoon effect on energy and carbon exchange processes over a highland lake in the southwest of China. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15087-15104.	1.9	9
40	Differences of atmospheric boundary layer characteristics between pre-monsoon and monsoon period over the Erhai Lake. <i>Theoretical and Applied Climatology</i> , 2019, 135, 305-321.	1.3	9
41	Grazing effects on seasonal dynamics and interannual variabilities of spectral reflectance in semi-arid grassland in Inner Mongolia. <i>Plant and Soil</i> , 2011, 340, 169-180.	1.8	8
42	Response of carbon dioxide exchange to grazing intensity over typical steppes in a semi-arid area of Inner Mongolia. <i>Theoretical and Applied Climatology</i> , 2017, 128, 719-730.	1.3	8
43	Response of evapotranspiration and CO ₂ fluxes to discrete precipitation pulses over degraded grassland and cultivated corn surfaces in a semiarid area of Northeastern China. <i>Journal of Arid Environments</i> , 2016, 127, 137-147.	1.2	7
44	Numerical and experimental studies on flow and pollutant dispersion in urban street canyons. <i>Advances in Atmospheric Sciences</i> , 2007, 24, 111-125.	1.9	6
45	Impact of Soil Moisture on Afternoon Convection Triggering Over the Tibetan Plateau Based on 1D Boundary Layer Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	6
46	Influences of structures on urban ventilation: A numerical experiment. <i>Advances in Atmospheric Sciences</i> , 2002, 19, 1045-1054.	1.9	5
47	Validating MODIS land surface reflectance products using ground-measured reflectance spectra – a case study in semi-arid grassland in Inner Mongolia, China. <i>International Journal of Remote Sensing</i> , 2014, 35, 1715-1728.	1.3	5
48	Effects of precipitation seasonal distribution on net ecosystem CO ₂ exchange over an alpine meadow in the southeastern Tibetan Plateau. <i>International Journal of Biometeorology</i> , 2022, 66, 1561-1573.	1.3	5
49	Water-tank experiment on the thermal circulation induced by the bottom heating in an asymmetric valley. <i>Advances in Atmospheric Sciences</i> , 2004, 21, 536-546.	1.9	4
50	Analytical Model of Roll Vortices in the Convective Boundary Layer. <i>Boundary-Layer Meteorology</i> , 2009, 130, 43-55.	1.2	4
51	Numerical simulation of roll vortices in the convective boundary layer. <i>Advances in Atmospheric Sciences</i> , 2011, 28, 477-482.	1.9	4
52	Evaluating of simulated carbon flux phenology over a cropland ecosystem in a semiarid area of China with SiBcrop. <i>International Journal of Biometeorology</i> , 2017, 61, 247-258.	1.3	4
53	Numerical Simulation of Wind Energy Characteristics in Jiangsu Coastal Area. <i>Advanced Materials Research</i> , 0, 347-353, 2156-2159.	0.3	3
54	Evaluation of the Performance of Different Methods for Estimating Evaporation over a Highland Open Freshwater Lake in Mountainous Area. <i>Water (Switzerland)</i> , 2020, 12, 3491.	1.2	3

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55	Factors controlling the latent and sensible heat fluxes over Erhai Lake under different atmospheric surface layer stability conditions. <i>Atmospheric and Oceanic Science Letters</i> , 2020, 13, 400-406.	0.5	3
56	Use of a land surface model to evaluate the observed soil moisture of grassland at the Tongyu reference site. <i>Advances in Atmospheric Sciences</i> , 2008, 25, 1073-1084.	1.9	2
57	An improved simple snow-atmosphere-soil transfer model. <i>Science China Earth Sciences</i> , 2012, 55, 1206-1216.	2.3	2
58	Multi-level CO ₂ fluxes over Beijing megacity with the eddy covariance method. <i>Atmospheric and Oceanic Science Letters</i> , 2021, 14, 100079.	0.5	2
59	Wind flow and wind loads on the surface of a towershaped building: Numerical simulations and wind tunnel experiment. <i>Science in China Series D: Earth Sciences</i> , 2008, 51, 103-113.	0.9	1
60	Characteristics of Momentum and Heat Transfer over Semiarid Grasslands with Different Grazing Intensities in Inner Mongolia, China. <i>Atmospheric and Oceanic Science Letters</i> , 2011, 4, 264-269.	0.5	1
61	Characteristics of Lake Breezes and Their Impacts on Energy and Carbon Fluxes in Mountainous Areas. <i>Advances in Atmospheric Sciences</i> , 2021, 38, 603-614.	1.9	1
62	Roll Vortices in the Boundary Layer Caused by a Concave Wind Profile: A Theoretical Study. <i>Atmospheric and Oceanic Science Letters</i> , 2010, 3, 308-311.	0.5	0