

Jian Wu

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

1,356
citations

361296

20
h-index

377752

34
g-index

67
all docs

67
docs citations

67
times ranked

1270
citing authors

#	ARTICLE	IF	CITATIONS
1	Changes in daily and cumulative volumetric rainfall at various intensity levels due to urban surface expansion over China. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 72, 1745532.	0.8	7
2	Does CRA-40 outperform other reanalysis products in evaluating near-surface wind speed changes over China?. <i>Atmospheric Research</i> , 2022, 266, 105948.	1.8	19
3	A Method of Inverting Dynamic Aerosol Extinction-to-Backscattering Ratio Based on Lidar Echo Signal and Ground Aerosol Extinction Coefficient or Aerosol Optical Depth. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-15.	2.7	0
4	Numerical study of aerosol radiative forcing over East Asia and the impacts of cloud coverage and relative humidity. <i>Atmospheric Research</i> , 2022, 273, 106168.	1.8	1
5	Contributions of External Forcing and Internal Climate Variability to Changes in the Summer Surface Air Temperature over East Asia. <i>Journal of Climate</i> , 2022, 35, 5013-5032.	1.2	3
6	Secondary organic aerosol formation and source contributions over east China in summertime. <i>Environmental Pollution</i> , 2022, 306, 119383.	3.7	11
7	Fine structure analysis of urban heat island of a central city in low-latitude plateau of China. <i>Urban Climate</i> , 2022, 44, 101186.	2.4	8
8	Slowdown and reversal of terrestrial near-surface wind speed and its future changes over eastern China. <i>Environmental Research Letters</i> , 2021, 16, 034028.	2.2	22
9	Centennial-scale variability of terrestrial near-surface wind speed over China from reanalysis. <i>Journal of Climate</i> , 2021, , 1-52.	1.2	8
10	Terrestrial Near-Surface Wind Speed Variations in China: Research Progress and Prospects. <i>Journal of Meteorological Research</i> , 2021, 35, 537-556.	0.9	12
11	Estimating centennial-scale changes in global terrestrial near-surface wind speed based on CMIP6 GCMs. <i>Environmental Research Letters</i> , 2021, 16, 084039.	2.2	21
12	Changes in rainfall of different intensities due to urbanization-induced land-use changes in Shenzhen, China. <i>Climate Dynamics</i> , 2021, 56, 2509-2530.	1.7	8
13	Using particle swarm optimization to improve visibility-aerosol optical depth retrieval method. <i>Npj Climate and Atmospheric Science</i> , 2021, 4, .	2.6	0
14	Projected changes in global terrestrial near-surface wind speed in 1.5 Å°Câ€“4.0 Å°C global warming levels. <i>Environmental Research Letters</i> , 2021, 16, 114016.	2.2	18
15	Review of aerosol optical depth retrieval using visibility data. <i>Earth-Science Reviews</i> , 2020, 200, 102986.	4.0	24
16	Future projections of the near-surface wind speed over eastern China based on CMIP5 datasets. <i>Climate Dynamics</i> , 2020, 54, 2361-2385.	1.7	30
17	Assessment of the impact of soil moisture on spring surface air temperature over the lowâ€“latitude highlands of China. <i>International Journal of Climatology</i> , 2020, 40, 6629-6645.	1.5	7
18	Evaluating the long-term changes in temperature over the low-latitude plateau in China using a statistical downscaling method. <i>Climate Dynamics</i> , 2019, 52, 4269-4292.	1.7	4

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19	Characteristics and reasons for light rain reduction in Southwest China in recent decades. <i>Progress in Physical Geography</i> , 2019, 43, 643-665.	1.4	6
20	Evaluating land use change impacts on rainfall in various categories using the Weather Research and Forecasting-mosaic approach. <i>Atmospheric Science Letters</i> , 2019, 20, e870.	0.8	2
21	Numerical simulation of the effects of land use and cover change on the near-surface wind speed over Eastern China. <i>Climate Dynamics</i> , 2019, 53, 1783-1803.	1.7	29
22	Comparisons of urban-related warming in Beijing using different methods to calculate the daily mean temperature. <i>Science China Earth Sciences</i> , 2019, 62, 693-702.	2.3	3
23	Modelling Daily Mean Surface Air Temperature Calculated from Different Methods and Its Impact on Urban-Related Warming Evaluations over Guangzhou and Shenzhen Using the WRF Model. <i>Atmosphere</i> , 2019, 10, 48.	1.0	0
24	Seasonal climatic effects and feedbacks of anthropogenic heat release due to global energy consumption with CAM5. <i>Climate Dynamics</i> , 2019, 52, 6377-6390.	1.7	20
25	A possible recovery of the near-surface wind speed in Eastern China during winter after 2000 and the potential causes. <i>Theoretical and Applied Climatology</i> , 2019, 136, 119-134.	1.3	20
26	Changes in terrestrial near-surface wind speed and their possible causes: an overview. <i>Climate Dynamics</i> , 2018, 51, 2039-2078.	1.7	129
27	The variation in visibility and its relationship with surface wind speed in China from 1960 to 2009. <i>Theoretical and Applied Climatology</i> , 2018, 131, 335-347.	1.3	7
28	Comparisons of urban-related warming for Shenzhen and Guangzhou. <i>Atmospheric and Oceanic Science Letters</i> , 2018, 11, 330-337.	0.5	4
29	Evaluating the contributions of urban surface expansion to regional warming in Shanghai using different methods to calculate the daily mean temperature. <i>Atmospheric and Oceanic Science Letters</i> , 2018, 11, 518-525.	0.5	0
30	Changes of wind speed at different heights over eastern China during 1980â€“2011. <i>International Journal of Climatology</i> , 2018, 38, 4476-4495.	1.5	23
31	Regional warming induced by urban surface expansion in Shanghai. <i>Atmospheric and Oceanic Science Letters</i> , 2018, 11, 228-235.	0.5	2
32	Effects of surface friction and turbulent mixing on long-term changes in the near-surface wind speed over the Eastern China Plain from 1981 to 2010. <i>Climate Dynamics</i> , 2018, 51, 2285-2299.	1.7	17
33	Changes in urban-related precipitation in the summer over three city clusters in China. <i>Theoretical and Applied Climatology</i> , 2018, 134, 83-93.	1.3	9
34	Evaluating the impacts of land use and land cover changes on surface air temperature using the WRF-mosaic approach. <i>Atmospheric and Oceanic Science Letters</i> , 2018, 11, 262-269.	0.5	4
35	Evaluating the effects of land use and cover change on the decrease of surface wind speed over China in recent 30 years using a statistical downscaling method. <i>Climate Dynamics</i> , 2017, 48, 131-149.	1.7	61
36	The Influence of Urban Surface Expansion in China on Regional Climate. <i>Journal of Climate</i> , 2017, 30, 1061-1080.	1.2	26

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37	Impacts of cloud cover on long-term changes in light rain in Eastern China. <i>International Journal of Climatology</i> , 2017, 37, 4409-4416.	1.5	10
38	Contribution of Urban Surface Expansion to Regional Warming in Beijing, China. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 1551-1559.	0.6	13
39	Changes of the probabilities in different ranges of near-surface wind speed in China during the period for 1970–2011. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017, 169, 156-167.	1.7	26
40	Inclusion of land use changes in long-term regional climate simulations over East Asia. <i>Atmospheric Science Letters</i> , 2017, 18, 187-192.	0.8	8
41	Effects of land use and cover change on the near-surface wind speed over China in the last 30 years. <i>Progress in Physical Geography</i> , 2017, 41, 46-67.	1.4	48
42	The impact of land use and land cover changes on East Asian summer monsoon precipitation using the WRF-mosaic approach. <i>Atmospheric Science Letters</i> , 2017, 18, 450-457.	0.8	13
43	Heat Waves in China: Definitions, Leading Patterns, and Connections to Large-Scale Atmospheric Circulation and SSTs. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 10,679.	1.2	105
44	Statistical downscaling and dynamical downscaling of regional climate in China: Present climate evaluations and future climate projections. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2110-2129.	1.2	131
45	Changes of probabilities in different wind grades induced by land use and cover change in Eastern China Plain during 1980–2011. <i>Atmospheric Science Letters</i> , 2016, 17, 264-269.	0.8	30
46	A counterexample of aerosol suppressing light rain in Southwest China during 1951–2011. <i>Atmospheric Science Letters</i> , 2016, 17, 487-491.	0.8	8
47	Estimating the impact of the changes in land use and cover on the surface wind speed over the East China Plain during the period 1980–2011. <i>Climate Dynamics</i> , 2016, 46, 847-863.	1.7	68
48	Numerical study of natural sea salt aerosol and its radiative effects on climate and sea surface temperature over East Asia. <i>Atmospheric Environment</i> , 2015, 106, 110-119.	1.9	8
49	Sensitivity of simulated extreme precipitation and temperature to convective parameterization using RegCM3 in China. <i>Theoretical and Applied Climatology</i> , 2015, 122, 315-335.	1.3	10
50	Characteristics of cloud-to-ground lightning activity in hailstorms over Yunnan province. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015, 136, 2-7.	0.6	5
51	Impacts of warming and water vapor content on the decrease in light rain days during the warm season over eastern China. <i>Climate Dynamics</i> , 2015, 45, 1841-1857.	1.7	23
52	Improvement of aerosol optical depth retrieval using visibility data in China during the past 50 years. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 13,370.	1.2	44
53	A numerical simulation of aerosols' direct effects on tropopause height. <i>Theoretical and Applied Climatology</i> , 2013, 112, 659-671.	1.3	9
54	Consecutive extreme visibility events in China during 1960–2009. <i>Atmospheric Environment</i> , 2013, 68, 1-7.	1.9	22

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55	Characteristics of aerosol transport and distribution in East Asia. Atmospheric Research, 2013, 132-133, 185-198.	1.8	18
56	Probability of different visibility grades in China over a 50-year period. Meteorology and Atmospheric Physics, 2013, 122, 115-123.	0.9	3
57	Changes in the tropopause height induced by landing typhoons in China during the last 50 years. Atmospheric Science Letters, 2013, 14, 176-180.	0.8	3
58	Trends of visibility on sunny days in China in the recent 50 years. Atmospheric Environment, 2012, 55, 339-346.	1.9	68
59	Numerical Simulation of the Direct Effects on Climate in East Asia Induced by Carbonaceous Aerosol. Procedia Environmental Sciences, 2011, 10, 178-184.	1.3	4
60	A modeling study of the climate effects of sulfate and carbonaceous aerosols over China. Advances in Atmospheric Sciences, 2010, 27, 1276-1288.	1.9	16
61	Simulation of the direct effects of dust aerosol on climate in East Asia. Particuology, 2010, 8, 301-307.	2.0	15
62	Simulation of direct effects of black carbon aerosol on temperature and hydrological cycle in Asia by a Regional Climate Model. Meteorology and Atmospheric Physics, 2008, 100, 179-193.	0.9	35
63	Preliminary Analysis of Aerosols' Effects on Tropopause Height. , 2008, , .		0
64	Preliminary Simulation Research of Direct Radiative Forcing of Mineral Dust Aerosol Over East Asia Region. Chinese Journal of Geophysics, 2005, 48, 1336-1347.	0.2	7
65	Simulation of the radiative effect of black carbon aerosols and the regional climate responses over China. Advances in Atmospheric Sciences, 2004, 21, 637-649.	1.9	40