Jian Wu

List of Publications by Year in descending order

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	Statistical downscaling and dynamical downscaling of regional climate in China: Present climate evaluations and future climate projections. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2110-2129.	1.2	131
2	Changes in terrestrial near-surface wind speed and their possible causes: an overview. Climate Dynamics, 2018, 51, 2039-2078.	1.7	129
3	Heat Waves in China: Definitions, Leading Patterns, and Connections to Largeâ€Scale Atmospheric Circulation and SSTs. Journal of Geophysical Research D: Atmospheres, 2017, 122, 10,679.	1.2	105
4	Trends of visibility on sunny days in China in the recent 50 years. Atmospheric Environment, 2012, 55, 339-346.	1.9	68
5	Estimating the impact of the changes in land use and cover on the surface wind speed over the East China Plain during the period 1980â€“2011. Climate Dynamics, 2016, 46, 847-863.	1.7	68
6	Evaluating the effects of land use and cover change on the decrease of surface wind speed over China in recent 30Âyears using a statistical downscaling method. Climate Dynamics, 2017, 48, 131-149.	1.7	61
7	Effects of land use and cover change on the near-surface wind speed over China in the last 30 years. Progress in Physical Geography, 2017, 41, 46-67.	1.4	48
8	Improvement of aerosol optical depth retrieval using visibility data in China during the past 50â€‰years. Journal of Geophysical Research D: Atmospheres, 2014, 119, 13,370.	1.2	44
9	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
10	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
11	Changes of probabilities in different wind grades induced by land use and cover change in Eastern China Plain during 1980â€“2011. Atmospheric Science Letters, 2016, 17, 264-269.	0.8	30
12	Future projections of the near-surface wind speed over eastern China based on CMIP5 datasets. Climate Dynamics, 2020, 54, 2361-2385.	1.7	30
13	Numerical simulation of the effects of land use and cover change on the near-surface wind speed over Eastern China. Climate Dynamics, 2019, 53, 1783-1803.	1.7	29
14	The Influence of Urban Surface Expansion in China on Regional Climate. Journal of Climate, 2017, 30, 1061-1080.	1.2	26
15	Changes of the probabilities in different ranges of near-surface wind speed in China during the period for 1970â€“2011. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 169, 156-167.	1.7	26
16	Review of aerosol optical depth retrieval using visibility data. Earth-Science Reviews, 2020, 200, 102986.	4.0	24
17	Impacts of warming and water vapor content on the decrease in light rain days during the warm season over eastern China. Climate Dynamics, 2015, 45, 1841-1857.	1.7	23
18	Changes of wind speed at different heights over eastern China during 1980â€“2011. International Journal of Climatology, 2018, 38, 4476-4495.	1.5	23

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19	Consecutive extreme visibility events in China during 1960â€“2009. Atmospheric Environment, 2013, 68, 1-7.	1.9	22
20	Slowdown and reversal of terrestrial near-surface wind speed and its future changes over eastern China. Environmental Research Letters, 2021, 16, 034028.	2.2	22
21	Estimating centennial-scale changes in global terrestrial near-surface wind speed based on CMIP6 GCMs. Environmental Research Letters, 2021, 16, 084039.	2.2	21
22	Seasonal climatic effects and feedbacks of anthropogenic heat release due to global energy consumption with CAM5. Climate Dynamics, 2019, 52, 6377-6390.	1.7	20
23	A possible recovery of the near-surface wind speed in Eastern China during winter after 2000 and the potential causes. Theoretical and Applied Climatology, 2019, 136, 119-134.	1.3	20
24	Does CRA-40 outperform other reanalysis products in evaluating near-surface wind speed changes over China?. Atmospheric Research, 2022, 266, 105948.	1.8	19
25	Characteristics of aerosol transport and distribution in East Asia. Atmospheric Research, 2013, 132-133, 185-198.	1.8	18
26	Projected changes in global terrestrial near-surface wind speed in 1.5 Â°Câ€“4.0 Â°C global warming levels. Environmental Research Letters, 2021, 16, 114016.	2.2	18
27	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. Climate Dynamics, 2018, 51, 2285-2299.	1.7	17
28	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
29	Simulation of the direct effects of dust aerosol on climate in East Asia. Particuology, 2010, 8, 301-307.	2.0	15
30	Contribution of Urban Surface Expansion to Regional Warming in Beijing, China. Journal of Applied Meteorology and Climatology, 2017, 56, 1551-1559.	0.6	13
31	The impact of land use and land cover changes on East Asian summer monsoon precipitation using the WRFâ€mosaic approach. Atmospheric Science Letters, 2017, 18, 450-457.	0.8	13
32	Terrestrial Near-Surface Wind Speed Variations in China: Research Progress and Prospects. Journal of Meteorological Research, 2021, 35, 537-556.	0.9	12
33	Secondary organic aerosol formation and source contributions over east China in summertime. Environmental Pollution, 2022, 306, 119383.	3.7	11
34	Sensitivity of simulated extreme precipitation and temperature to convective parameterization using RegCM3 in China. Theoretical and Applied Climatology, 2015, 122, 315-335.	1.3	10
35	Impacts of cloud cover on longâ€term changes in light rain in Eastern China. International Journal of Climatology, 2017, 37, 4409-4416.	1.5	10
36	A numerical simulation of aerosolsâ€™ direct effects on tropopause height. Theoretical and Applied Climatology, 2013, 112, 659-671.	1.3	9

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37	Changes in urban-related precipitation in the summer over three city clusters in China. Theoretical and Applied Climatology, 2018, 134, 83-93.	1.3	9
38	Numerical study of natural sea salt aerosol and its radiative effects on climate and sea surface temperature over East Asia. Atmospheric Environment, 2015, 106, 110-119.	1.9	8
39	A counterexample of aerosol suppressing light rain in Southwest China during 1951â€“2011. Atmospheric Science Letters, 2016, 17, 487-491.	0.8	8
40	Inclusion of land use changes in longâ€term regional climate simulations over East Asia. Atmospheric Science Letters, 2017, 18, 187-192.	0.8	8
41	Centennial-scale variability of terrestrial near-surface wind speed over China from reanalysis. Journal of Climate, 2021, , 1-52.	1.2	8
42	Changes in rainfall of different intensities due to urbanization-induced land-use changes in Shenzhen, China. Climate Dynamics, 2021, 56, 2509-2530.	1.7	8
43	Fine structure analysis of urban heat island of a central city in low-latitude plateau of China. Urban Climate, 2022, 44, 101186.	2.4	8
44	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
45	The variation in visibility and its relationship with surface wind speed in China from 1960 to 2009. Theoretical and Applied Climatology, 2018, 131, 335-347.	1.3	7
46	Changes in daily and cumulative volumetric rainfall at various intensity levels due to urban surface expansion over China. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 72, 1745532.	0.8	7
47	Assessment of the impact of soil moisture on spring surface air temperature over the lowâ€latitude highlands of China. International Journal of Climatology, 2020, 40, 6629-6645.	1.5	7
48	Characteristics and reasons for light rain reduction in Southwest China in recent decades. Progress in Physical Geography, 2019, 43, 643-665.	1.4	6
49	Characteristics of cloud-to-ground lightning activity in hailstorms over Yunnan province. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 136, 2-7.	0.6	5
50	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
51	Comparisons of urban-related warming for Shenzhen and Guangzhou. Atmospheric and Oceanic Science Letters, 2018, 11, 330-337.	0.5	4
52	Evaluating the impacts of land use and land cover changes on surface air temperature using the WRF-mosaic approach. Atmospheric and Oceanic Science Letters, 2018, 11, 262-269.	0.5	4
53	Evaluating the long-term changes in temperature over the low-latitude plateau in China using a statistical downscaling method. Climate Dynamics, 2019, 52, 4269-4292.	1.7	4
54	Probability of different visibility grades in China over a 50-year period. Meteorology and Atmospheric Physics, 2013, 122, 115-123.	0.9	3

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55	Changes in the tropopause height induced by landing typhoons in China during the last 50â€‰years. Atmospheric Science Letters, 2013, 14, 176-180.	0.8	3
56	Comparisons of urban-related warming in Beijing using different methods to calculate the daily mean temperature. Science China Earth Sciences, 2019, 62, 693-702.	2.3	3
57	Contributions of External Forcing and Internal Climate Variability to Changes in the Summer Surface Air Temperature over East Asia. Journal of Climate, 2022, 35, 5013-5032.	1.2	3
58	Regional warming induced by urban surface expansion in Shanghai. Atmospheric and Oceanic Science Letters, 2018, 11, 228-235.	0.5	2
59	Evaluating land use change impacts on rainfall in various categories using the Weather Research and Forecasting-mosaic approach. Atmospheric Science Letters, 2019, 20, e870.	0.8	2
60	Numerical study of aerosol radiative forcing over East Asia and the impacts of cloud coverage and relative humidity. Atmospheric Research, 2022, 273, 106168.	1.8	1
61	Preliminary Analysis of Aerosols' Effects on Tropopause Height. , 2008, , .		0
62	Evaluating the contributions of urban surface expansion to regional warming in Shanghai using different methods to calculate the daily mean temperature. Atmospheric and Oceanic Science Letters, 2018, 11, 518-525.	0.5	0
63	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. Atmosphere, 2019, 10, 48.	1.0	0
64	Using particle swarm optimization to improve visibility-aerosol optical depth retrieval method. Npj Climate and Atmospheric Science, 2021, 4, .	2.6	0
65	A Method of Inversing Dynamic Aerosol Extinction-to-Backscattering Ratio Based on Lidar Echo Signal and Ground Aerosol Extinction Coefficient or Aerosol Optical Depth. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	0