Xiaodan Guan

List of Publications by Year
in descending order

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42 papers	3,835 citations	331670 21 h-index	265206 42 g-index
45 all docs	45 docs citations	45 times ranked	4855 citing authors

#	Article	IF	Citations
1	Accelerated dryland expansion under climateÂchange. Nature Climate Change, 2016, 6, 166-171.	18.8	1,615
2	Dryland climate change: Recent progress and challenges. Reviews of Geophysics, 2017, 55, 719-778.	23.0	507
3	Enhanced cold-season warming in semi-arid regions. Atmospheric Chemistry and Physics, 2012, 12, 5391-5398.	4.9	246
4	Global desertification vulnerability to climate change and human activities. Land Degradation and Development, 2020, 31, 1380-1391.	3.9	177
5	Variability of soil moisture and its relationship with surface albedo and soil thermal parameters over the Loess Plateau. Advances in Atmospheric Sciences, 2009, 26, 692-700.	4.3	122
6	Mechanisms of water supply and vegetation demand govern the seasonality and magnitude of evapotranspiration in Amazonia and Cerrado. Agricultural and Forest Meteorology, 2014, 191, 33-50.	4.8	105
7	The dynamics of the warming hiatus over the Northern Hemisphere. Climate Dynamics, 2017, 48, 429-446.	3.8	96
8	Progress in Semi-arid Climate Change Studies in China. Advances in Atmospheric Sciences, 2019, 36, 922-937.	4.3	94
9	Longâ€term trend and variability of soil moisture over East Asia. Journal of Geophysical Research D: Atmospheres, 2015, 120, 8658-8670.	3.3	89
10	The role of dynamically induced variability in the recent warming trend slowdown over the Northern Hemisphere. Scientific Reports, 2015, 5, 12669.	3.3	83
11	Long-term trends of precipitable water and precipitation over the Tibetan Plateau derived from satellite and surface measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 122, 64-71.	2.3	67
12	Changing Lengths of the Four Seasons by Global Warming. Geophysical Research Letters, 2021, 48, e2020GL091753.	4.0	62
13	Quantifying contributions of natural and anthropogenic dust emission from different climatic regions. Atmospheric Environment, 2018, 191, 94-104.	4.1	56
14	Overview of the Large-Scale Biosphereâ€“Atmosphere Experiment in Amazonia Data Model Intercomparison Project (LBA-DMIP). Agricultural and Forest Meteorology, 2013, 182-183, 111-127.	4.8	55
15	Impact of oceans on climate change in drylands. Science China Earth Sciences, 2019, 62, 891-908.	5.2	54
16	Role of radiatively forced temperature changes in enhanced semi-arid warming in the cold season over east Asia. Atmospheric Chemistry and Physics, 2015, 15, 13777-13786.	4.9	50
17	The relationship between anthropogenic dust and population over global semi-arid regions. Atmospheric Chemistry and Physics, 2016, 16, 5159-5169.	4.9	42
18	Changes in aridity in response to the global warming hiatus. Journal of Meteorological Research, 2017, 31, 117-125.	2.4	32

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19	Inter-annual variability of carbon and water fluxes in Amazonian forest, Cerrado and pasture sites, as simulated by terrestrial biosphere models. Agricultural and Forest Meteorology, 2013, 182-183, 145-155.	4.8	30
20	The Mechanism of Increasing Summer Water Vapor Over the Tibetan Plateau. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034166.	3.3	27
21	Estimations of indirect and direct anthropogenic dust emission at the global scale. Atmospheric Environment, 2019, 200, 50-60.	4.1	26
22	Mechanism of non-appearance of hiatus in Tibetan Plateau. Scientific Reports, 2017, 7, 4421.	3.3	21
23	The Dominant Role of Snow/Ice Albedo Feedback Strengthened by Black Carbon in the Enhanced Warming over the Himalayas. Journal of Climate, 2019, 32, 5883-5899.	3.2	21
24	Contributions of radiative factors to enhanced dryland warming over East Asia. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7723-7736.	3.3	20
25	Unexpected Evergreen Expansion in the Siberian Forest under Warming Hiatus. Journal of Climate, 2017, 30, 5021-5039.	3.2	18
26	Comparison of the Pacific Decadal Oscillation in climate model simulations and observations. International Journal of Climatology, 2018, 38, e99.	3.5	13
27	Estimation of Atmospheric PM₁₀ Concentration in China Using an Interpretable Deep Learning Model and Topâ€ofâ€theâ€Atmosphere Reflectance Data From Chinaâ€™s New Generation Geostationary Meteorological Satellite, FYâ€4A. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	13
28	Different roles of dynamic and thermodynamic effects in enhanced semiâ€arid warming. International Journal of Climatology, 2018, 38, 13-22.	3.5	11
29	Precipitation over semi-arid regions of North Hemisphere affected by Atlantic Multidecadal Oscillation. Atmospheric Research, 2021, 262, 105801.	4.1	10
30	Decadal Change in Soil Moisture Over East Asia in Response to a Decadeâ€Long Warming Hiatus. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8619-8630.	3.3	8
31	The key role of decadal modulated oscillation in recent cold phase. International Journal of Climatology, 2019, 39, 5761-5770.	3.5	7
32	The Key Role of Atlantic Multidecadal Oscillation in Minimum Temperature Over North America During Global Warming Slowdown. Earth and Space Science, 2019, 6, 387-397.	2.6	7
33	Influence of water vapor influx on interdecadal change in summer precipitation over the source area of the Yellow River Basin. Atmospheric Research, 2022, 276, 106270.	4.1	7
34	Speeding extreme cold events under global warming. Environmental Research Letters, 2022, 17, 084012.	5.2	6
35	Changes in lengths of the four seasons over the drylands in the Northern Hemisphere mid-latitudes. Journal of Climate, 2021, , 1.	3.2	5
36	Evidence of decreasing diurnal temperature range in eastern Northern Hemisphere. Environmental Research Communications, 2022, 4, 031004.	2.3	5

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37	Opposite Atlantic Multidecadal Oscillation effects on dry/wet changes over Central and East Asian drylands. Atmospheric Research, 2022, 271, 106102.	4.1	5
38	Enhanced Warming in Global Dryland Lakes and Its Drivers. Remote Sensing, 2022, 14, 86.	4.0	5
39	Inter-decadal variability of the heat source over the Tibetan Plateau. Climate Dynamics, 2022, 58, 729-739.	3.8	4
40	Precipitation Changes in Semi-arid Regions in East Asia Under Global Warming. Frontiers in Earth Science, 2021, 9, .	1.8	3
41	The Influence of Precipitation Phase Changes on the Recharge Process of Terrestrial Water Storage in the Cold Season Over the Tibetan Plateau. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	3
42	The global response of temperature to high-latitude vegetation greening in a two-dimensional energy balance model. Atmospheric and Oceanic Science Letters, 2020, 13, 80-87.	1.3	1