Xiyan Xu

List of Publications by Year
in descending order

39 papers	1,779 citations	516710 16 h-index	315739 38 g-index
54 all docs	54 docs citations	54 times ranked	3584 citing authors

#	Article	IF	Citations
1	The global methane budget 2000â€"2012. Earth System Science Data, 2016, 8, 697-751.	9.9	824
2	Climate control of terrestrial carbon exchange across biomes and continents. Environmental Research Letters, 2010, 5, 034007.	5.2	137
3	Global wetland contribution to 2000â€"2012 atmospheric methane growth rate dynamics. Environmental Research Letters, 2017, 12, 094013.	5.2	129
4	Variability and quasi-decadal changes in the methane budget over the period 2000â€"2012. Atmospheric Chemistry and Physics, 2017, 17, 11135-11161.	4.9	85
5	Climate regime shift and forest loss amplify fire in Amazonian forests. Global Change Biology, 2020, 26, 5874-5885.	9.5	62
6	Earlier leaf-out warms air in the north. Nature Climate Change, 2020, 10, 370-375.	18.8	45
7	Enhanced methane emissions from tropical wetlands during the 2011 La NiÃ±a. Scientific Reports, 2017, 7, 45759.	3.3	41
8	Amplified intensity and duration of heatwaves by concurrent droughts in China. Atmospheric Research, 2021, 261, 105743.	4.1	35
9	Contrasting Effects of Temperature and Precipitation on Vegetation Greenness along Elevation Gradients of the Tibetan Plateau. Remote Sensing, 2020, 12, 2751.	4.0	29
10	Urbanization Magnified Nighttime Heat Waves in China. Geophysical Research Letters, 2021, 48, e2021GL093603.	4.0	29
11	Much stronger tundra methane emissions during autumn freeze than spring thaw. Global Change Biology, 2021, 27, 376-387.	9.5	28
12	A multi-scale comparison of modeled and observed seasonal methane emissions in northern wetlands. Biogeosciences, 2016, 13, 5043-5056.	3.3	24
13	Seasonal and interannual variations in carbon fluxes in East Asia semi-arid grasslands. Science of the Total Environment, 2019, 668, 1128-1138.	8.0	24
14	Climate extremes and grassland potential productivity. Environmental Research Letters, 2012, 7, 035703.	5.2	23
15	Deforestation triggering irreversible transition in Amazon hydrological cycle. Environmental Research Letters, 2022, 17, 034037.	5.2	22
16	Observed and Simulated Sensitivities of Spring Greenup to Preseason Climate in Northern Temperate and Boreal Regions. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 60-78.	3.0	18
17	Wetland Heterogeneity Determines Methane Emissions: A Pan-Arctic Synthesis. Environmental Science & Technology, 2021, 55, 10152-10163.	10.0	18
18	Spatial heterogeneity of climate variation and vegetation response for Arctic and high-elevation regions from 2001â€"2018. Environmental Research Communications, 2020, 2, 011007.	2.3	14

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19	Land surface phenology detections from multi-source remote sensing indices capturing canopy photosynthesis phenology across major land cover types in the Northern Hemisphere. Ecological Indicators, 2022, 135, 108579.	6.3	14
20	Earlier snowmelt predominates advanced spring vegetation greenup in Alaska. Agricultural and Forest Meteorology, 2022, 315, 108828.	4.8	14
21	Reforestation enhanced landscape connectivity for thermal buffering in China. Environmental Research Letters, 2022, 17, 014056.	5.2	13
22	Heterogeneous spring phenology shifts affected by climate: supportive evidence from two remotely sensed vegetation indices. Environmental Research Communications, 2019, 1, 091004.	2.3	12
23	The influence of geometry on recirculation and CO2 transport over forested hills. Meteorology and Atmospheric Physics, 2013, 119, 187-196.	2.0	11
24	Stably stratified canopy flow in complex terrain. Atmospheric Chemistry and Physics, 2015, 15, 7457-7470.	4.9	11
25	The underestimated magnitude and decline trend in nearâ€surface wind over China. Atmospheric Science Letters, 2017, 18, 475-483.	1.9	11
26	Understanding the spring phenology of Arctic tundra using multiple satellite data products and ground observations. Science China Earth Sciences, 2020, 63, 1599-1612.	5.2	10
27	Warming enhances dominance of vascular plants over cryptogams across northern wetlands. Global Change Biology, 2022, 28, 4097-4109.	9.5	10
28	Numerical study of the interplay between thermo-topographic slope flow and synoptic flow on canopy transport processes. Agricultural and Forest Meteorology, 2018, 255, 3-16.	4.8	9
29	Vegetation Abundance and Health Mapping Over Southwestern Antarctica Based on WorldView-2 Data and a Modified Spectral Mixture Analysis. Remote Sensing, 2021, 13, 166.	4.0	9
30	Interannual Variability of Global Wetlands in Response to El NiÃ±o Southern Oscillations (ENSO) and Land-Use. Frontiers in Earth Science, 2019, 7, .	1.8	8
31	Heterogeneous Trends of Precipitation Extremes in Recent Two Decades over East Africa. Journal of Meteorological Research, 2021, 35, 1057-1073.	2.4	8
32	Evaluation of gridded precipitation datasets over Madagascar. International Journal of Climatology, 2022, 42, 7028-7046.	3.5	7
33	Contrasting Responses of Vegetation Production to Rainfall Anomalies Across the Northeast China Transect. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	7
34	Aerosols consistently suppress the convective boundary layer development. Atmospheric Research, 2022, 269, 106032.	4.1	6
35	Asymmetrical Trends of Burned Area Between Eastern and Western Siberia Regulated by Atmospheric Oscillation. Geophysical Research Letters, 2021, 48, .	4.0	5
36	Hiatus of wetland methane emissions associated with recent La NiÃ±a episodes in the Asian monsoon region. Climate Dynamics, 2020, 54, 4095-4107.	3.8	4

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37	Scale matters in understanding the complexity of Amazon fires: A response to the Editor. Global Change Biology, 2021, 27, e2-e4.	9.5	2
38	Asymmetrical cooling effects of Amazonian protected areas across spatiotemporal scales. Environmental Research Letters, 2022, 17, 054038.	5.2	1
39	Antecedent water condition determines carbon exchange response to extreme precipitation events across global drylands. Theoretical and Applied Climatology, 0, , .	2.8	0