

Xiyan Xu

List of Publications by Year in descending order

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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	Deforestation triggering irreversible transition in Amazon hydrological cycle. <i>Environmental Research Letters</i> , 2022, 17, 034037.	5.2	22
2	Reforestation enhanced landscape connectivity for thermal buffering in China. <i>Environmental Research Letters</i> , 2022, 17, 014056.	5.2	13
3	Land surface phenology detections from multi-source remote sensing indices capturing canopy photosynthesis phenology across major land cover types in the Northern Hemisphere. <i>Ecological Indicators</i> , 2022, 135, 108579.	6.3	14
4	Earlier snowmelt predominates advanced spring vegetation greenup in Alaska. <i>Agricultural and Forest Meteorology</i> , 2022, 315, 108828.	4.8	14
5	Aerosols consistently suppress the convective boundary layer development. <i>Atmospheric Research</i> , 2022, 269, 106032.	4.1	6
6	Warming enhances dominance of vascular plants over cryptogams across northern wetlands. <i>Global Change Biology</i> , 2022, 28, 4097-4109.	9.5	10
7	Evaluation of gridded precipitation datasets over Madagascar. <i>International Journal of Climatology</i> , 2022, 42, 7028-7046.	3.5	7
8	Asymmetrical cooling effects of Amazonian protected areas across spatiotemporal scales. <i>Environmental Research Letters</i> , 2022, 17, 054038.	5.2	1
9	Contrasting Responses of Vegetation Production to Rainfall Anomalies Across the Northeast China Transect. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	7
10	Scale matters in understanding the complexity of Amazon fires: A response to the Editor. <i>Global Change Biology</i> , 2021, 27, e2-e4.	9.5	2
11	Much stronger tundra methane emissions during autumn freeze than spring thaw. <i>Global Change Biology</i> , 2021, 27, 376-387.	9.5	28
12	Wetland Heterogeneity Determines Methane Emissions: A Pan-Arctic Synthesis. <i>Environmental Science & Technology</i> , 2021, 55, 10152-10163.	10.0	18
13	Urbanization Magnified Nighttime Heat Waves in China. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093603.	4.0	29
14	Amplified intensity and duration of heatwaves by concurrent droughts in China. <i>Atmospheric Research</i> , 2021, 261, 105743.	4.1	35
15	Vegetation Abundance and Health Mapping Over Southwestern Antarctica Based on WorldView-2 Data and a Modified Spectral Mixture Analysis. <i>Remote Sensing</i> , 2021, 13, 166.	4.0	9
16	Heterogeneous Trends of Precipitation Extremes in Recent Two Decades over East Africa. <i>Journal of Meteorological Research</i> , 2021, 35, 1057-1073.	2.4	8
17	Asymmetrical Trends of Burned Area Between Eastern and Western Siberia Regulated by Atmospheric Oscillation. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	5
18	Climate regime shift and forest loss amplify fire in Amazonian forests. <i>Global Change Biology</i> , 2020, 26, 5874-5885.	9.5	62

#	ARTICLE	IF	CITATIONS
19	Contrasting Effects of Temperature and Precipitation on Vegetation Greenness along Elevation Gradients of the Tibetan Plateau. <i>Remote Sensing</i> , 2020, 12, 2751.	4.0	29
20	Understanding the spring phenology of Arctic tundra using multiple satellite data products and ground observations. <i>Science China Earth Sciences</i> , 2020, 63, 1599-1612.	5.2	10
21	Spatial heterogeneity of climate variation and vegetation response for Arctic and high-elevation regions from 2001–2018. <i>Environmental Research Communications</i> , 2020, 2, 011007.	2.3	14
22	Earlier leaf-out warms air in the north. <i>Nature Climate Change</i> , 2020, 10, 370-375.	18.8	45
23	Hiatus of wetland methane emissions associated with recent La Niña episodes in the Asian monsoon region. <i>Climate Dynamics</i> , 2020, 54, 4095-4107.	3.8	4
24	Heterogeneous spring phenology shifts affected by climate: supportive evidence from two remotely sensed vegetation indices. <i>Environmental Research Communications</i> , 2019, 1, 091004.	2.3	12
25	Seasonal and interannual variations in carbon fluxes in East Asia semi-arid grasslands. <i>Science of the Total Environment</i> , 2019, 668, 1128-1138.	8.0	24
26	Interannual Variability of Global Wetlands in Response to El Niño Southern Oscillations (ENSO) and Land-Use. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	8
27	Observed and Simulated Sensitivities of Spring Greenup to Preseason Climate in Northern Temperate and Boreal Regions. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 60-78.	3.0	18
28	Numerical study of the interplay between thermo-topographic slope flow and synoptic flow on canopy transport processes. <i>Agricultural and Forest Meteorology</i> , 2018, 255, 3-16.	4.8	9
29	Enhanced methane emissions from tropical wetlands during the 2011 La Niña. <i>Scientific Reports</i> , 2017, 7, 45759.	3.3	41
30	Global wetland contribution to 2000–2012 atmospheric methane growth rate dynamics. <i>Environmental Research Letters</i> , 2017, 12, 094013.	5.2	129
31	Variability and quasi-decadal changes in the methane budget over the period 2000–2012. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11135-11161.	4.9	85
32	The underestimated magnitude and decline trend in near-surface wind over China. <i>Atmospheric Science Letters</i> , 2017, 18, 475-483.	1.9	11
33	A multi-scale comparison of modeled and observed seasonal methane emissions in northern wetlands. <i>Biogeosciences</i> , 2016, 13, 5043-5056.	3.3	24
34	The global methane budget 2000–2012. <i>Earth System Science Data</i> , 2016, 8, 697-751.	9.9	824
35	Stably stratified canopy flow in complex terrain. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7457-7470.	4.9	11
36	The influence of geometry on recirculation and CO2 transport over forested hills. <i>Meteorology and Atmospheric Physics</i> , 2013, 119, 187-196.	2.0	11

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37	Climate extremes and grassland potential productivity. Environmental Research Letters, 2012, 7, 035703.	5.2	23
38	Climate control of terrestrial carbon exchange across biomes and continents. Environmental Research Letters, 2010, 5, 034007.	5.2	137
39	Antecedent water condition determines carbon exchange response to extreme precipitation events across global drylands. Theoretical and Applied Climatology, 0, , .	2.8	0