

Tao Wang

List of Publications by Year in descending order

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79
papers

11,110
citations

50170

46
h-index

64668

79
g-index

80
all docs

80
docs citations

80
times ranked

11500
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging Negative Warming Impacts on Tibetan Crop Yield. <i>Engineering</i> , 2022, 14, 163-168.	3.2	6
2	An earlier start of the thermal growing season enhances tree growth in cold humid areas but not in dry areas. <i>Nature Ecology and Evolution</i> , 2022, 6, 397-404.	3.4	78
3	New understanding of the response of permafrost carbon cycling to climate warming. <i>Science Bulletin</i> , 2022, 67, 1322-1325.	4.3	3
4	Observation-based global soil heterotrophic respiration indicates underestimated turnover and sequestration of soil carbon by terrestrial ecosystem models. <i>Global Change Biology</i> , 2022, 28, 5547-5559.	4.2	7
5	Enhanced habitat loss of the Himalayan endemic flora driven by warming-forced upslope tree expansion. <i>Nature Ecology and Evolution</i> , 2022, 6, 890-899.	3.4	72
6	The imbalance of the Asian water tower. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 618-632.	12.2	286
7	Significant CO ₂ sink over the Tibet's largest lake: Implication for carbon neutrality across the Tibetan Plateau. <i>Science of the Total Environment</i> , 2022, 843, 156792.	3.9	2
8	Species richness is a strong driver of forest biomass along broad bioclimatic gradients in the Himalayas. <i>Ecosphere</i> , 2022, 13, .	1.0	8
9	Biophysical impacts of northern vegetation changes on seasonal warming patterns. <i>Nature Communications</i> , 2022, 13, .	5.8	26
10	Multifaceted characteristics of dryland aridity changes in a warming world. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 232-250.	12.2	281
11	Drivers of Eurasian Spring Snow-Cover Variability. <i>Journal of Climate</i> , 2021, 34, 2037-2052.	1.2	7
12	An emerging impact of Eurasian spring snow cover on summer rainfall in Eastern China. <i>Environmental Research Letters</i> , 2021, 16, 054012.	2.2	9
13	Reply to: Disentangling biology from mathematical necessity in twentieth-century gymnosperm resilience trends. <i>Nature Ecology and Evolution</i> , 2021, 5, 736-737.	3.4	1
14	Carbon turnover times shape topsoil carbon difference between Tibetan Plateau and Arctic tundra. <i>Science Bulletin</i> , 2021, 66, 1698-1704.	4.3	14
15	Watershed scale patterns and controlling factors of ecosystem respiration and methane fluxes in a Tibetan alpine grassland. <i>Agricultural and Forest Meteorology</i> , 2021, 306, 108451.	1.9	1
16	Atmospheric dynamic constraints on Tibetan Plateau freshwater under Paris climate targets. <i>Nature Climate Change</i> , 2021, 11, 219-225.	8.1	87
17	Higher Temperature Sensitivity of Soil C Release to Atmosphere From Northern Permafrost Soils as Indicated by a Meta-Analysis. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006688.	1.9	12
18	Temporal trade-off between gymnosperm resistance and resilience increases forest sensitivity to extreme drought. <i>Nature Ecology and Evolution</i> , 2020, 4, 1075-1083.	3.4	134

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19	Can changes in autumn phenology facilitate earlier green-up date of northern vegetation?. <i>Agricultural and Forest Meteorology</i> , 2020, 291, 108077.	1.9	36
20	Field-experiment constraints on the enhancement of the terrestrial carbon sink by CO2 fertilization. <i>Nature Geoscience</i> , 2019, 12, 809-814.	5.4	58
21	The paleoclimatic footprint in the soil carbon stock of the Tibetan permafrost region. <i>Nature Communications</i> , 2019, 10, 4195.	5.8	39
22	Deciphering impacts of climate extremes on Tibetan grasslands in the last fifteen years. <i>Science Bulletin</i> , 2019, 64, 446-454.	4.3	45
23	Air temperature optima of vegetation productivity across global biomes. <i>Nature Ecology and Evolution</i> , 2019, 3, 772-779.	3.4	316
24	The weakening relationship between Eurasian spring snow cover and Indian summer monsoon rainfall. <i>Science Advances</i> , 2019, 5, eaau8932.	4.7	39
25	Multisatellite Analyses of Spatiotemporal Variability in Photosynthetic Activity Over the Tibetan Plateau. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3778-3797.	1.3	17
26	Combined Use of Multiple Drought Indices for Global Assessment of Dry Gets Drier and Wet Gets Wetter Paradigm. <i>Journal of Climate</i> , 2019, 32, 737-748.	1.2	40
27	Responses and feedback of the Tibetan Plateau's alpine ecosystem to climate change. <i>Chinese Science Bulletin</i> , 2019, 64, 2842-2855.	0.4	91
28	A new estimation of China's net ecosystem productivity based on eddy covariance measurements and a model tree ensemble approach. <i>Agricultural and Forest Meteorology</i> , 2018, 253-254, 84-93.	1.9	58
29	Changes in the Response of the Northern Hemisphere Carbon Uptake to Temperature Over the Last Three Decades. <i>Geophysical Research Letters</i> , 2018, 45, 4371-4380.	1.5	21
30	Extension of the growing season increases vegetation exposure to frost. <i>Nature Communications</i> , 2018, 9, 426.	5.8	190
31	Impact of Earth Greening on the Terrestrial Water Cycle. <i>Journal of Climate</i> , 2018, 31, 2633-2650.	1.2	142
32	Contrasting responses of grassland water and carbon exchanges to climate change between Tibetan Plateau and Inner Mongolia. <i>Agricultural and Forest Meteorology</i> , 2018, 249, 163-175.	1.9	62
33	Spring Snow's Albedo Feedback Analysis Over the Third Pole: Results From Satellite Observation and CMIP5 Model Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 750-763.	1.2	17
34	Increasingly Important Role of Atmospheric Aridity on Tibetan Alpine Grasslands. <i>Geophysical Research Letters</i> , 2018, 45, 2852-2859.	1.5	136
35	Spatiotemporal pattern of gross primary productivity and its covariation with climate in China over the last thirty years. <i>Global Change Biology</i> , 2018, 24, 184-196.	4.2	177
36	Disentangling the mechanisms behind winter snow impact on vegetation activity in northern ecosystems. <i>Global Change Biology</i> , 2018, 24, 1651-1662.	4.2	76

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37	On the causes of trends in the seasonal amplitude of atmospheric CO_2 . <i>Global Change Biology</i> , 2018, 24, 608-616.	4.2	48
38	Sustained Biomass Carbon Sequestration by China's Forests from 2010 to 2050. <i>Forests</i> , 2018, 9, 689.	0.9	12
39	Emerging negative impact of warming on summer carbon uptake in northern ecosystems. <i>Nature Communications</i> , 2018, 9, 5391.	5.8	31
40	ESM-SnowMIP: assessing snow models and quantifying snow-related climate feedbacks. <i>Geoscientific Model Development</i> , 2018, 11, 5027-5049.	1.3	119
41	Changing the retention properties of catchments and their influence on runoff under climate change. <i>Environmental Research Letters</i> , 2018, 13, 094019.	2.2	21
42	Partitioning global land evapotranspiration using CMIP5 models constrained by observations. <i>Nature Climate Change</i> , 2018, 8, 640-646.	8.1	219
43	ORCHIDEE-MICT (v8.4.1), a land surface model for the high latitudes: model description and validation. <i>Geoscientific Model Development</i> , 2018, 11, 121-163.	1.3	135
44	Future biomass carbon sequestration capacity of Chinese forests. <i>Science Bulletin</i> , 2018, 63, 1108-1117.	4.3	92
45	The Response of Vegetation Phenology and Productivity to Drought in Semi-Arid Regions of Northern China. <i>Remote Sensing</i> , 2018, 10, 727.	1.8	78
46	Lower land-use emissions responsible for increased net land carbon sink during the slow warming period. <i>Nature Geoscience</i> , 2018, 11, 739-743.	5.4	110
47	Decelerating Autumn CO_2 Release With Warming Induced by Attenuated Temperature Dependence of Respiration in Northern Ecosystems. <i>Geophysical Research Letters</i> , 2018, 45, 5562-5571.	1.5	8
48	Weakening temperature control on the interannual variations of spring carbon uptake across northern lands. <i>Nature Climate Change</i> , 2017, 7, 359-363.	8.1	183
49	Moisture-induced greening of the South Asia over the past three decades. <i>Global Change Biology</i> , 2017, 23, 4995-5005.	4.2	55
50	Climate mitigation from vegetation biophysical feedbacks during the past three decades. <i>Nature Climate Change</i> , 2017, 7, 432-436.	8.1	323
51	Plausible rice yield losses under future climate warming. <i>Nature Plants</i> , 2017, 3, 16202.	4.7	114
52	Velocity of change in vegetation productivity over northern high latitudes. <i>Nature Ecology and Evolution</i> , 2017, 1, 1649-1654.	3.4	79
53	Reducing the uncertainty of parameters controlling seasonal carbon and water fluxes in Chinese forests and its implication for simulated climate sensitivities. <i>Global Biogeochemical Cycles</i> , 2017, 31, 1344-1366.	1.9	11
54	Temperature increase reduces global yields of major crops in four independent estimates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9326-9331.	3.3	1,708

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55	Carbon stocks and fluxes in the high latitudes: using site-level data to evaluate Earth system models. <i>Biogeosciences</i> , 2017, 14, 5143-5169.	1.3	43
56	Evaluating biases in simulated land surface albedo from CMIP5 global climate models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6178-6190.	1.2	46
57	Benchmarking the seasonal cycle of CO ₂ fluxes simulated by terrestrial ecosystem models. <i>Global Biogeochemical Cycles</i> , 2015, 29, 46-64.	1.9	48
58	Spring snow cover deficit controlled by intraseasonal variability of the surface energy fluxes. <i>Environmental Research Letters</i> , 2015, 10, 024018.	2.2	26
59	Plant phenological responses to climate change on the Tibetan Plateau: research status and challenges. <i>National Science Review</i> , 2015, 2, 454-467.	4.6	161
60	MODIS Based Estimation of Forest Aboveground Biomass in China. <i>PLoS ONE</i> , 2015, 10, e0130143.	1.1	35
61	Impacts of Satellite-Based Snow Albedo Assimilation on Offline and Coupled Land Surface Model Simulations. <i>PLoS ONE</i> , 2015, 10, e0137275.	1.1	16
62	A worldwide analysis of spatiotemporal changes in water balance-based evapotranspiration from 1982 to 2009. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1186-1202.	1.2	109
63	A two-fold increase of carbon cycle sensitivity to tropical temperature variations. <i>Nature</i> , 2014, 506, 212-215.	13.7	284
64	Evidence for a weakening relationship between interannual temperature variability and northern vegetation activity. <i>Nature Communications</i> , 2014, 5, 5018.	5.8	414
65	Effects of Warming and Clipping on Ecosystem Carbon Fluxes across Two Hydrologically Contrasting Years in an Alpine Meadow of the Qinghai-Tibet Plateau. <i>PLoS ONE</i> , 2014, 9, e109319.	1.1	54
66	Changes in satellite-derived spring vegetation green-up date and its linkage to climate in China from 1982 to 2010: a multimethod analysis. <i>Global Change Biology</i> , 2013, 19, 881-891.	4.2	276
67	Evaluation of terrestrial carbon cycle models for their response to climate variability and to CO ₂ trends. <i>Global Change Biology</i> , 2013, 19, 2117-2132.	4.2	617
68	Declining snow cover may affect spring phenological trend on the Tibetan Plateau. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2854-5.	3.3	92
69	Change in snow phenology and its potential feedback to temperature in the Northern Hemisphere over the last three decades. <i>Environmental Research Letters</i> , 2013, 8, 014008.	2.2	125
70	Evaluation of an improved intermediate complexity snow scheme in the ORCHIDEE land surface model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6064-6079.	1.2	63
71	What eddy covariance measurements tell us about prior land flux errors in CO ₂ flux inversion schemes. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	1.9	47
72	State-dependent errors in a land surface model across biomes inferred from eddy covariance observations on multiple timescales. <i>Ecological Modelling</i> , 2012, 246, 11-25.	1.2	18

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73	Impacts of climate and CO ₂ changes on the vegetation growth and carbon balance of Qinghai-Tibetan grasslands over the past five decades. <i>Global and Planetary Change</i> , 2012, 98-99, 73-80.	1.6	248
74	Changes in satellite-derived vegetation growth trend in temperate and boreal Eurasia from 1982 to 2006. <i>Global Change Biology</i> , 2011, 17, 3228-3239.	4.2	586
75	Winter soil CO ₂ efflux and its contribution to annual soil respiration in different ecosystems of a forest-steppe ecotone, north China. <i>Soil Biology and Biochemistry</i> , 2010, 42, 451-458.	4.2	106
76	Are ecological gradients in seasonal Q ₁₀ of soil respiration explained by climate or by vegetation seasonality?. <i>Soil Biology and Biochemistry</i> , 2010, 42, 1728-1734.	4.2	106
77	Temperature sensitivity of soil respiration in different ecosystems in China. <i>Soil Biology and Biochemistry</i> , 2009, 41, 1008-1014.	4.2	223
78	The carbon balance of terrestrial ecosystems in China. <i>Nature</i> , 2009, 458, 1009-1013.	13.7	1,243
79	Spatiotemporal patterns of terrestrial carbon cycle during the 20th century. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	1.9	180