

# Tao Zhou

## List of Publications by Year in descending order

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43  
papers

2,368  
citations

331538

21  
h-index

265120

42  
g-index

43  
all docs

43  
docs citations

43  
times ranked

3546  
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-lag effects of global vegetation responses to climate change. <i>Global Change Biology</i> , 2015, 21, 3520-3531.	4.2	672
2	Toward more realistic projections of soil carbon dynamics by Earth system models. <i>Global Biogeochemical Cycles</i> , 2016, 30, 40-56.	1.9	343
3	Global pattern of temperature sensitivity of soil heterotrophic respiration ( $Q_{10}$ ) and its implications for carbon-climate feedback. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	201
4	Evaluation of Spatiotemporal Variations of Global Fractional Vegetation Cover Based on GIMMS NDVI Data from 1982 to 2011. <i>Remote Sensing</i> , 2014, 6, 4217-4239.	1.8	125
5	Dynamic responses of tree-ring growth to multiple dimensions of drought. <i>Global Change Biology</i> , 2018, 24, 5380-5390.	4.2	91
6	Mapping Forest Biomass Using Remote Sensing and National Forest Inventory in China. <i>Forests</i> , 2014, 5, 1267-1283.	0.9	74
7	Spatial patterns of ecosystem carbon residence time and NPP-driven carbon uptake in the conterminous United States. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	61
8	Multifunctionality assessment of the land use system in rural residential areas: Confronting land use supply with rural sustainability demand. <i>Journal of Environmental Management</i> , 2019, 231, 73-85.	3.8	59
9	Disaster Risk Science: A Geographical Perspective and a Research Framework. <i>International Journal of Disaster Risk Science</i> , 2020, 11, 426-440.	1.3	58
10	The spatial distribution of forest carbon sinks and sources in China. <i>Science Bulletin</i> , 2012, 57, 1699-1707.	1.7	51
11	Age-dependent forest carbon sink: Estimation via inverse modeling. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 2473-2492.	1.3	48
12	Redefinition and global estimation of basal ecosystem respiration rate. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	1.9	43
13	Underestimated ecosystem carbon turnover time and sequestration under the steady state assumption: A perspective from long-term data assimilation. <i>Global Change Biology</i> , 2019, 25, 938-953.	4.2	42
14	Assessments of Drought Impacts on Vegetation in China with the Optimal Time Scales of the Climatic Drought Index. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 7615-7634.	1.2	40
15	Responses of Natural Vegetation to Different Stages of Extreme Drought during 2009–2010 in Southwestern China. <i>Remote Sensing</i> , 2015, 7, 14039-14054.	1.8	39
16	The Observed Impacts of Wind Farms on Local Vegetation Growth in Northern China. <i>Remote Sensing</i> , 2017, 9, 332.	1.8	37
17	Climatic factors driving vegetation declines in the 2005 and 2010 Amazon droughts. <i>PLoS ONE</i> , 2017, 12, e0175379.	1.1	33
18	Contrasting Responses of Planted and Natural Forests to Drought Intensity in Yunnan, China. <i>Remote Sensing</i> , 2016, 8, 635.	1.8	28

#	ARTICLE	IF	CITATIONS
19	Urbanization and air quality as major drivers of altered spatiotemporal patterns of heavy rainfall in China. <i>Landscape Ecology</i> , 2017, 32, 1723-1738.	1.9	28
20	Effects of Climate Factors and Human Activities on the Ecosystem Water Use Efficiency throughout Northern China. <i>Remote Sensing</i> , 2019, 11, 2766.	1.8	28
21	Uncertainties in carbon residence time and NPP-driven carbon uptake in terrestrial ecosystems of the conterminous USA: a Bayesian approach. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 64, 17223.	0.8	24
22	Nonsteady state carbon sequestration in forest ecosystems of China estimated by data assimilation. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 1369-1384.	1.3	24
23	Estimation of leaf nutrition status in degraded vegetation based on field survey and hyperspectral data. <i>Scientific Reports</i> , 2020, 10, 4361.	1.6	19
24	Spatial patterns of ecosystem carbon residence time in Chinese forests. <i>Science China Earth Sciences</i> , 2010, 53, 1229-1240.	2.3	17
25	Spatial Upscaling of Tree-Ring-Based Forest Response to Drought with Satellite Data. <i>Remote Sensing</i> , 2019, 11, 2344.	1.8	16
26	Age and climate contribution to observed forest carbon sinks in East Asia. <i>Environmental Research Letters</i> , 2016, 11, 034021.	2.2	15
27	Impacts of Water Stress on Forest Recovery and Its Interaction with Canopy Height. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 1257.	1.2	15
28	Assessing the Impacts of Urbanization on Albedo in Jing-Jin-Ji Region of China. <i>Remote Sensing</i> , 2018, 10, 1096.	1.8	15
29	Distribution and Variation of Forests in China from 2001 to 2011: A Study Based on Remotely Sensed Data. <i>Forests</i> , 2013, 4, 632-649.	0.9	14
30	Links between global CO <sub>2</sub> variability and climate anomalies of biomes. <i>Science in China Series D: Earth Sciences</i> , 2008, 51, 740-747.	0.9	13
31	Diverse spatiotemporal responses in vegetation growth to droughts in China. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	11
32	Models ignoring spatial heterogeneities of forest age will significantly overestimate the climate effects on litterfall in China. <i>Science of the Total Environment</i> , 2019, 661, 492-503.	3.9	11
33	Spatial patterns in temperature sensitivity of soil respiration in China: Estimation with inverse modeling. <i>Science in China Series C: Life Sciences</i> , 2009, 52, 982-989.	1.3	10
34	World Regionalization of Climate Change (1961–2010). <i>International Journal of Disaster Risk Science</i> , 2016, 7, 216-226.	1.3	10
35	Stock Volume Dependency of Forest Drought Responses in Yunnan, China. <i>Forests</i> , 2018, 9, 209.	0.9	9
36	Effects of Warming Hiatuses on Vegetation Growth in the Northern Hemisphere. <i>Remote Sensing</i> , 2018, 10, 683.	1.8	9

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37	Diverse Roles of Previous Years' Water Conditions in Cross Primary Productivity in China. Remote Sensing, 2021, 13, 58.	1.8	9
38	Interannual variation of gross primary production detected from optimal convolutional neural network at multi-timescale water stress. Remote Sensing in Ecology and Conservation, 2022, 8, 409-425.	2.2	7
39	Satellite evidence of canopy-height dependence of forest drought resistance in southwestern China. Environmental Research Letters, 2022, 17, 025005.	2.2	5
40	Dual Roles of Water Availability in Forest Vigor: A Multiperspective Analysis in China. Remote Sensing, 2021, 13, 91.	1.8	4
41	A Refined Rural Settlements Simulation Considering the Competition Relationship among the Internal Land Use Types: A Case Study of Pinggu District. Land, 2022, 11, 661.	1.2	4
42	Climate Sensitivities of Carbon Turnover Times in Soil and Vegetation: Understanding Their Effects on Forest Carbon Sequestration. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	3
43	Significant association between winter North Atlantic SST and spring NDVI anomaly over Eurasia. Journal of Geophysical Research D: Atmospheres, 0, , .	1.2	3