

Yao Zhang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86

papers

5,658

citations

37

h-index

75

g-index

96

ext. papers

7,389

ext. citations

9.5

avg, IF

5.68

L-index

#	Paper	IF	Citations
86	Global products of vegetation leaf area and fraction absorbed PAR from year one of MODIS data. <i>Remote Sensing of Environment</i> , 2002 , 83, 214-231	13.2	1379
85	Global and time-resolved monitoring of crop photosynthesis with chlorophyll fluorescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E1327-33	11.5	577
84	The impacts of climate change and human activities on biogeochemical cycles on the Qinghai-Tibetan Plateau. <i>Global Change Biology</i> , 2013 , 19, 2940-55	11.4	428
83	The seasonal cycle of satellite chlorophyll fluorescence observations and its relationship to vegetation phenology and ecosystem atmosphere carbon exchange. <i>Remote Sensing of Environment</i> , 2014 , 152, 375-391	13.2	231
82	A global moderate resolution dataset of gross primary production of vegetation for 2000-2016. <i>Scientific Data</i> , 2017 , 4, 170165	8.2	208
81	Multiple afforestation programs accelerate the greenness in the Three North region of China from 1982 to 2013. <i>Ecological Indicators</i> , 2016 , 61, 404-412	5.8	173
80	Large increase in global storm runoff extremes driven by climate and anthropogenic changes. <i>Nature Communications</i> , 2018 , 9, 4389	17.4	146
79	Consistency between sun-induced chlorophyll fluorescence and gross primary production of vegetation in North America. <i>Remote Sensing of Environment</i> , 2016 , 183, 154-169	13.2	139
78	Partitioning evapotranspiration based on the concept of underlying water use efficiency. <i>Water Resources Research</i> , 2016 , 52, 1160-1175	5.4	109
77	Land-atmosphere feedbacks exacerbate concurrent soil drought and atmospheric aridity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 18848-18853	11.5	99
76	A global spatially contiguous solar-induced fluorescence (CSIF) dataset using neural networks. <i>Biogeosciences</i> , 2018 , 15, 5779-5800	4.6	95
75	Projected increases in intensity, frequency, and terrestrial carbon costs of compound drought and aridity events. <i>Science Advances</i> , 2019 , 5, eaau5740	14.3	87
74	Spatiotemporal patterns of paddy rice croplands in China and India from 2000 to 2015. <i>Science of the Total Environment</i> , 2017 , 579, 82-92	10.2	85
73	The carbon stock of alpine peatlands on the Qinghai-Tibetan Plateau during the Holocene and their future fate. <i>Quaternary Science Reviews</i> , 2014 , 95, 151-158	3.9	79
72	Vegetation dynamics induced by groundwater fluctuations in the lower Heihe River Basin, northwestern China. <i>Journal of Plant Ecology</i> , 2011 , 4, 77-90	1.7	68
71	On the relationship between sub-daily instantaneous and daily total gross primary production: Implications for interpreting satellite-based SIF retrievals. <i>Remote Sensing of Environment</i> , 2018 , 205, 276-289	13.2	68
70	Estimation of Terrestrial Global Gross Primary Production (GPP) with Satellite Data-Driven Models and Eddy Covariance Flux Data. <i>Remote Sensing</i> , 2018 , 10, 1346	5	67

69	Carbon loss from forest degradation exceeds that from deforestation in the Brazilian Amazon. <i>Nature Climate Change</i> , 2021 , 11, 442-448	21.4	58
68	Reduced solar-induced chlorophyll fluorescence from GOME-2 during Amazon drought caused by dataset artifacts. <i>Global Change Biology</i> , 2018 , 24, 2229-2230	11.4	54
67	Water use efficiency and evapotranspiration partitioning for three typical ecosystems in the Heihe River Basin, northwestern China. <i>Agricultural and Forest Meteorology</i> , 2018 , 253-254, 261-273	5.8	49
66	Explaining inter-annual variability of gross primary productivity from plant phenology and physiology. <i>Agricultural and Forest Meteorology</i> , 2016 , 226-227, 246-256	5.8	49
65	Canopy and physiological controls of GPP during drought and heat wave. <i>Geophysical Research Letters</i> , 2016 , 43, 3325-3333	4.9	48
64	Physics-Constrained Machine Learning of Evapotranspiration. <i>Geophysical Research Letters</i> , 2019 , 46, 14496-14507	4.9	48
63	Large increases of paddy rice area, gross primary production, and grain production in Northeast China during 2000-2017. <i>Science of the Total Environment</i> , 2020 , 711, 135183	10.2	45
62	Mapping forests in monsoon Asia with ALOS PALSAR 50-m mosaic images and MODIS imagery in 2010. <i>Scientific Reports</i> , 2016 , 6, 20880	4.9	44
61	FluoSpec 2-An Automated Field Spectroscopy System to Monitor Canopy Solar-Induced Fluorescence. <i>Sensors</i> , 2018 , 18,	3.8	44
60	Precipitation and carbon-water coupling jointly control the interannual variability of global land gross primary production. <i>Scientific Reports</i> , 2016 , 6, 39748	4.9	44
59	Improved estimates of forest cover and loss in the Brazilian Amazon in 2000-2017. <i>Nature Sustainability</i> , 2019 , 2, 764-772	22.1	43
58	Monitoring and estimating drought-induced impacts on forest structure, growth, function, and ecosystem services using remote-sensing data: recent progress and future challenges. <i>Environmental Reviews</i> , 2013 , 21, 103-115	4.5	43
57	Coupling between the terrestrial carbon and water cycles—a review. <i>Environmental Research Letters</i> , 2019 , 14, 083003	6.2	42
56	Relationship between air pollutants and economic development of the provincial capital cities in China during the past decade. <i>PLoS ONE</i> , 2014 , 9, e104013	3.7	42
55	Mapping paddy rice planting area in wheat-rice double-cropped areas through integration of Landsat-8 OLI, MODIS, and PALSAR images. <i>Scientific Reports</i> , 2015 , 5, 10088	4.9	41
54	Soil moisture-atmosphere feedbacks mitigate declining water availability in drylands. <i>Nature Climate Change</i> , 2021 , 11, 38-44	21.4	41
53	Exacerbated grassland degradation and desertification in Central Asia during 2000-2014 2018 , 28, 442-456		40
52	Response of Water Use Efficiency to Global Environmental Change Based on Output From Terrestrial Biosphere Models. <i>Global Biogeochemical Cycles</i> , 2017 , 31, 1639-1655	5.9	38

51	Northward expansion of paddy rice in northeastern Asia during 2000-2014. <i>Geophysical Research Letters</i> , 2016 , 43, 3754-3761	4.9	38
50	Quantifying methane emissions from rice paddies in Northeast China by integrating remote sensing mapping with a biogeochemical model. <i>Biogeosciences</i> , 2011 , 8, 1225-1235	4.6	37
49	Quantifying annual changes in built-up area in complex urban-rural landscapes from analyses of PALSAR and Landsat images. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017 , 124, 89-105	11.8	32
48	Ecological engineering projects increased vegetation cover, production, and biomass in semiarid and subhumid Northern China. <i>Land Degradation and Development</i> , 2019 , 30, 1620-1631	4.4	32
47	Trends and controls of terrestrial gross primary productivity of China during 2000-2016. <i>Environmental Research Letters</i> , 2019 , 14, 084032	6.2	31
46	Ecosystem transpiration and evaporation: Insights from three water flux partitioning methods across FLUXNET sites. <i>Global Change Biology</i> , 2020 , 26, 6916-6930	11.4	31
45	Amazon rainforest photosynthesis increases in response to atmospheric dryness. <i>Science Advances</i> , 2020 , 6,	14.3	30
44	Spatio-Temporal Convergence of Maximum Daily Light-Use Efficiency Based on Radiation Absorption by Canopy Chlorophyll. <i>Geophysical Research Letters</i> , 2018 , 45, 3508-3519	4.9	29
43	Dominant role of plant physiology in trend and variability of gross primary productivity in North America. <i>Scientific Reports</i> , 2017 , 7, 41366	4.9	28
42	Light limitation regulates the response of autumn terrestrial carbon uptake to warming. <i>Nature Climate Change</i> , 2020 , 10, 739-743	21.4	28
41	Large and projected strengthening moisture limitation on end-of-season photosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 9216-9222	11.5	27
40	Responses of gross primary production of grasslands and croplands under drought, pluvial, and irrigation conditions during 2010-2016, Oklahoma, USA. <i>Agricultural Water Management</i> , 2018 , 204, 47-59	5.9	26
39	Higher recent peat C accumulation than that during the Holocene on the Zoige Plateau. <i>Quaternary Science Reviews</i> , 2015 , 114, 116-125	3.9	26
38	Qinghai-Tibetan plateau peatland sustainable utilization under anthropogenic disturbances and climate change. <i>Ecosystem Health and Sustainability</i> , 2017 , 3, e01263	3.7	23
37	Fingerprint of rice paddies in spatial-temporal dynamics of atmospheric methane concentration in monsoon Asia. <i>Nature Communications</i> , 2020 , 11, 554	17.4	22
36	Spatiotemporal Consistency of Four Gross Primary Production Products and Solar-Induced Chlorophyll Fluorescence in Response to Climate Extremes Across CONUS in 2012. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 3140-3161	3.7	22
35	Performance of four state-of-the-art GPP products (VPM, MOD17, BESS and PML) for grasslands in drought years. <i>Ecological Informatics</i> , 2020 , 56, 101052	4.2	21
34	Spatial-temporal consistency between gross primary productivity and solar-induced chlorophyll fluorescence of vegetation in China during 2007-2014. <i>Science of the Total Environment</i> , 2018 , 639, 1241-1253	10.2	21

33	Divergent shifts in peak photosynthesis timing of temperate and alpine grasslands in China. <i>Remote Sensing of Environment</i> , 2019 , 233, 111395	13.2	20
32	Can vegetation optical depth reflect changes in leaf water potential during soil moisture dry-down events?. <i>Remote Sensing of Environment</i> , 2019 , 234, 111451	13.2	20
31	Eradicating invasive <i>Spartina alterniflora</i> with alien <i>Sonneratia apetala</i> and its implications for invasion controls. <i>Ecological Engineering</i> , 2014 , 73, 367-372	3.9	19
30	Underestimates of Grassland Gross Primary Production in MODIS Standard Products. <i>Remote Sensing</i> , 2018 , 10, 1771	5	19
29	Temporal consistency between gross primary production and solar-induced chlorophyll fluorescence in the ten most populous megacity areas over years. <i>Scientific Reports</i> , 2017 , 7, 14963	4.9	18
28	The potential of satellite FPAR product for GPP estimation: An indirect evaluation using solar-induced chlorophyll fluorescence. <i>Remote Sensing of Environment</i> , 2020 , 240, 111686	13.2	17
27	Spatial-temporal variability of terrestrial vegetation productivity in the Yangtze River Basin during 2000-2009. <i>Journal of Plant Ecology</i> , 2014 , 7, 10-23	1.7	17
26	Sources of Uncertainty in Modeled Land Carbon Storage within and across Three MIPs: Diagnosis with Three New Techniques. <i>Journal of Climate</i> , 2018 , 31, 2833-2851	4.4	15
25	Canopy and climate controls of gross primary production of Mediterranean-type deciduous and evergreen oak savannas. <i>Agricultural and Forest Meteorology</i> , 2016 , 226-227, 132-147	5.8	15
24	Assessing agricultural drought in summer over Oklahoma Mesonet sites using the water-related vegetation index from MODIS. <i>International Journal of Biometeorology</i> , 2017 , 61, 377-390	3.7	14
23	Response of Tropical Terrestrial Gross Primary Production to the Super El Niño Event in 2015. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 3193-3203	3.7	13
22	Soil available nitrogen, dissolved organic carbon and microbial biomass content along altitudinal gradient of the eastern slope of Gongga Mountain. <i>Acta Ecologica Sinica</i> , 2013 , 33, 266-271	2.7	12
21	Enhanced gross primary production and evapotranspiration in juniper-encroached grasslands. <i>Global Change Biology</i> , 2018 , 24, 5655-5667	11.4	11
20	Exacerbated drought impacts on global ecosystems due to structural overshoot. <i>Nature Ecology and Evolution</i> , 2021 , 5, 1490-1498	12.3	10
19	Dynamical Downscaling of CO ₂ in 2016 Over the Contiguous United States Using WRF-VPRM, a Weather-Biosphere-Online-Coupled Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001875	7.1	7
18	Ecosystem aridity and atmospheric CO ₂ . <i>Science</i> , 2020 , 368, 251-252	33.3	7
17	Small anomalies in dry-season greenness and chlorophyll fluorescence for Amazon moist tropical forests during El Niño and La Niña. <i>Remote Sensing of Environment</i> , 2021 , 253, 112196	13.2	7
16	Terrestrial CO ₂ Fluxes, Concentrations, Sources and Budget in Northeast China: Observational and Modeling Studies. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031686	4.4	6

15	Correcting Clear-Sky Bias in Gross Primary Production Modeling From Satellite Solar-Induced Chlorophyll Fluorescence Data. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2020JG005822	3.7	6
14	Reply to 'Increases in temperature do not translate to increased flooding'. <i>Nature Communications</i> , 2019 , 10, 5675	17.4	6
13	Evolution of light use efficiency models: Improvement, uncertainties, and implications. <i>Agricultural and Forest Meteorology</i> , 2022 , 317, 108905	5.8	6
12	Implementation of Improved Parameterization of Terrestrial Flux in WRF-VPRM Improves the Simulation of Nighttime CO ₂ Peaks and a Daytime CO ₂ Band Ahead of a Cold Front. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD034362	4.4	5
11	Global variation in the fraction of leaf nitrogen allocated to photosynthesis. <i>Nature Communications</i> , 2021 , 12, 4866	17.4	5
10	A constraint on historic growth in global photosynthesis due to increasing CO ₂ . <i>Nature</i> , 2021 , 600, 253-258	58.4	5
9	Spring and autumn phenology across the Tibetan Plateau inferred from normalized difference vegetation index and solar-induced chlorophyll fluorescence. <i>Big Earth Data</i> , 1-19	4.1	4
8	Optical and Thermal Remote Sensing for Monitoring Agricultural Drought. <i>Remote Sensing</i> , 2021 , 13, 5092	5	4
7	Monitoring the impact of aerosol contamination on the drought-induced decline of gross primary productivity. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2015 , 36, 30-40	7.3	3
6	Recent increase in the observation-derived land evapotranspiration due to global warming. <i>Environmental Research Letters</i> , 2022 , 17, 024020	6.2	3
5	A global spatially Continuous Solar Induced Fluorescence (CSIF) dataset using neural networks		3
4	Large spatial variation and stagnation of cropland gross primary production increases the challenges of sustainable grain production and food security in China. <i>Science of the Total Environment</i> , 2021 , 151408	10.2	2
3	Midwest US Croplands Determine Model Divergence in North American Carbon Fluxes. <i>AGU Advances</i> , 2021 , 2, e2020AV000310	5.4	2
2	Large divergence in tropical hydrological projections caused by model spread in vegetation responses to elevated CO ₂ . <i>Earth's Future</i> ,	7.9	1
1	Reply to: "Correlation between paddy rice growth and satellite-observed methane column abundance does not imply causation". <i>Nature Communications</i> , 2021 , 12, 1189	17.4	0