

Yao Zhang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5969289/yao-zhang-publications-by-year.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Recent increase in the observation-derived land evapotranspiration due to global warming. <i>Environmental Research Letters</i> , 2022 , 17, 024020	6.2	3
85	Evolution of light use efficiency models: Improvement, uncertainties, and implications. <i>Agricultural and Forest Meteorology</i> , 2022 , 317, 108905	5.8	6
84	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
83	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
82	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
81	Midwest US Croplands Determine Model Divergence in North American Carbon Fluxes. <i>AGU Advances</i> , 2021 , 2, e2020AV000310	5.4	2
80	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
79	Soil moisture-atmosphere feedbacks mitigate declining water availability in drylands. <i>Nature Climate Change</i> , 2021 , 11, 38-44	21.4	41
78	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
77	Global variation in the fraction of leaf nitrogen allocated to photosynthesis. <i>Nature Communications</i> , 2021 , 12, 4866	17.4	5
76	Exacerbated drought impacts on global ecosystems due to structural overshoot. <i>Nature Ecology and Evolution</i> , 2021 , 5, 1490-1498	12.3	10
75	A constraint on historic growth in global photosynthesis due to increasing CO ₂ . <i>Nature</i> , 2021 , 600, 253-258	58.4	5
74	Optical and Thermal Remote Sensing for Monitoring Agricultural Drought. <i>Remote Sensing</i> , 2021 , 13, 5092	5	4
73	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
72	Light limitation regulates the response of autumn terrestrial carbon uptake to warming. <i>Nature Climate Change</i> , 2020 , 10, 739-743	21.4	28
71	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
70	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

69	Dynamical Downscaling of CO2 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
68	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
67	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
66	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
65	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
64	Amazon rainforest photosynthesis increases in response to atmospheric dryness. <i>Science Advances</i> , 2020 , 6,	14.3	30
63	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
62	Ecosystem aridity and atmospheric CO. <i>Science</i> , 2020 , 368, 251-252	33.3	7
61	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
60	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
59	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
58	Coupling between the terrestrial carbon and water cycles—review. <i>Environmental Research Letters</i> , 2019 , 14, 083003	6.2	42
57	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
56	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
55	Trends and controls of terrestrial gross primary productivity of China during 2000–2016. <i>Environmental Research Letters</i> , 2019 , 14, 084032	6.2	31
54	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
53	Reply to 'Increases in temperature do not translate to increased flooding'. <i>Nature Communications</i> , 2019 , 10, 5675	17.4	6
52	Physics-Constrained Machine Learning of Evapotranspiration. <i>Geophysical Research Letters</i> , 2019 , 46, 14496-14507	4.9	48

51	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
50	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
49	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
48	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
47	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
46	FluoSpec 2-An Automated Field Spectroscopy System to Monitor Canopy Solar-Induced Fluorescence. <i>Sensors</i> , 2018 , 18,	3.8	44
45	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
44	Exacerbated grassland degradation and desertification in Central Asia during 2000-2014 2018 , 28, 442-456		40
43	Underestimates of Grassland Gross Primary Production in MODIS Standard Products. <i>Remote Sensing</i> , 2018 , 10, 1771	5	19
42	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
41	A global spatially contiguous solar-induced fluorescence (CSIF) dataset using neural networks. <i>Biogeosciences</i> , 2018 , 15, 5779-5800	4.6	95
40	Large increase in global storm runoff extremes driven by climate and anthropogenic changes. <i>Nature Communications</i> , 2018 , 9, 4389	17.4	146
39	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
38	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
37	Enhanced gross primary production and evapotranspiration in juniper-encroached grasslands. <i>Global Change Biology</i> , 2018 , 24, 5655-5667	11.4	11
36	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
35	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
34	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

33	Qinghai-Tibetan plateau peatland sustainable utilization under anthropogenic disturbances and climate change. <i>Ecosystem Health and Sustainability</i> , 2017 , 3, e01263	3.7	23
32	A global moderate resolution dataset of gross primary production of vegetation for 2000-2016. <i>Scientific Data</i> , 2017 , 4, 170165	8.2	208
31	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
30	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
29	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
28	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
27	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
26	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
25	Partitioning evapotranspiration based on the concept of underlying water use efficiency. <i>Water Resources Research</i> , 2016 , 52, 1160-1175	5.4	109
24	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
23	Canopy and physiological controls of GPP during drought and heat wave. <i>Geophysical Research Letters</i> , 2016 , 43, 3325-3333	4.9	48
22	Northward expansion of paddy rice in northeastern Asia during 2000-2014. <i>Geophysical Research Letters</i> , 2016 , 43, 3754-3761	4.9	38
21	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
20	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
19	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
18	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
17	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
16	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

15	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
14	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
13	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
12	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
11	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
10	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
9	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
8	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
7	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
6	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
5	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
4	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
3	A global spatially Continuous Solar Induced Fluorescence (CSIF) dataset using neural networks		3
2	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
1	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