

# Zheng Fu

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

2,924  
citations

172457

29  
h-index

265206

42  
g-index

43  
all docs

43  
docs citations

43  
times ranked

4376  
citing authors

#	ARTICLE	IF	CITATIONS
1	Increased vegetation growth and carbon stock in China karst via ecological engineering. <i>Nature Sustainability</i> , 2018, 1, 44-50.	23.7	460
2	Asymmetric responses of primary productivity to precipitation extremes: A synthesis of grassland precipitation manipulation experiments. <i>Global Change Biology</i> , 2017, 23, 4376-4385.	9.5	231
3	Direct and seasonal legacy effects of the 2018 heat wave and drought on European ecosystem productivity. <i>Science Advances</i> , 2020, 6, eaba2724.	10.3	229
4	The age distribution of global soil carbon inferred from radiocarbon measurements. <i>Nature Geoscience</i> , 2020, 13, 555-559.	12.9	123
5	Predicting soil carbon loss with warming. <i>Nature</i> , 2018, 554, E4-E5.	27.8	122
6	Atmospheric dryness reduces photosynthesis along a large range of soil water deficits. <i>Nature Communications</i> , 2022, 13, 989.	12.8	100
7	Plant community structure regulates responses of prairie soil respiration to decadal experimental warming. <i>Global Change Biology</i> , 2015, 21, 3846-3853.	9.5	92
8	Transient dynamics of terrestrial carbon storage: mathematical foundation and its applications. <i>Biogeosciences</i> , 2017, 14, 145-161.	3.3	91
9	Stronger warming effects on microbial abundances in colder regions. <i>Scientific Reports</i> , 2016, 5, 18032.	3.3	88
10	Evidence for long-term shift in plant community composition under decadal experimental warming. <i>Journal of Ecology</i> , 2015, 103, 1131-1140.	4.0	78
11	Improved estimates of forest cover and loss in the Brazilian Amazon in 2000–2017. <i>Nature Sustainability</i> , 2019, 2, 764-772.	23.7	71
12	Sensitivity of gross primary productivity to climatic drivers during the summer drought of 2018 in Europe. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190747.	4.0	71
13	Global patterns of extreme drought-induced loss in land primary production: Identifying ecological extremes from rain-use efficiency. <i>Science of the Total Environment</i> , 2018, 628-629, 611-620.	8.0	69
14	More replenishment than priming loss of soil organic carbon with additional carbon input. <i>Nature Communications</i> , 2018, 9, 3175.	12.8	69
15	Interannual variability of ecosystem carbon exchange: From observation to prediction. <i>Global Ecology and Biogeography</i> , 2017, 26, 1225-1237.	5.8	68
16	Dual mechanisms regulate ecosystem stability under decade-long warming and hay harvest. <i>Nature Communications</i> , 2016, 7, 11973.	12.8	66
17	The role of data assimilation in predictive ecology. <i>Ecosphere</i> , 2014, 5, 1-16.	2.2	65
18	Climate controls over the net carbon uptake period and amplitude of net ecosystem production in temperate and boreal ecosystems. <i>Agricultural and Forest Meteorology</i> , 2017, 243, 9-18.	4.8	64

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19	Matrix approach to land carbon cycle modeling: A case study with the Community Land Model. <i>Global Change Biology</i> , 2018, 24, 1394-1404.	9.5	64
20	Impacts of extreme summers on European ecosystems: a comparative analysis of 2003, 2010 and 2018. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190507.	4.0	64
21	Maximum carbon uptake rate dominates the interannual variability of global net ecosystem exchange. <i>Global Change Biology</i> , 2019, 25, 3381-3394.	9.5	62
22	Warming Effects on Ecosystem Carbon Fluxes Are Modulated by Plant Functional Types. <i>Ecosystems</i> , 2017, 20, 515-526.	3.4	54
23	Terrestrial ecosystem model performance in simulating productivity and its vulnerability to climate change in the northern permafrost region. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 430-446.	3.0	47
24	Data-constrained Projections of Methane Fluxes in a Northern Minnesota Peatland in Response to Elevated CO <sub>2</sub> and Warming. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2841-2861.	3.0	47
25	Recovery time and state change of terrestrial carbon cycle after disturbance. <i>Environmental Research Letters</i> , 2017, 12, 104004.	5.2	43
26	Unchanged carbon balance driven by equivalent responses of production and respiration to climate change in a mixed-grass prairie. <i>Global Change Biology</i> , 2016, 22, 1857-1866.	9.5	41
27	Exploring complex water stress-gross primary production relationships: Impact of climatic drivers, main effects, and interactive effects. <i>Global Change Biology</i> , 2022, 28, 4110-4123.	9.5	37
28	What have we learned from global change manipulative experiments in China? A meta-analysis. <i>Scientific Reports</i> , 2015, 5, 12344.	3.3	35
29	Long term trend and interannual variability of land carbon uptake—the attribution and processes. <i>Environmental Research Letters</i> , 2017, 12, 014018.	5.2	34
30	The surface-atmosphere exchange of carbon dioxide in tropical rainforests: Sensitivity to environmental drivers and flux measurement methodology. <i>Agricultural and Forest Meteorology</i> , 2018, 263, 292-307.	4.8	29
31	Incorporation of plant traits in a land surface model helps explain the global biogeographical distribution of major forest functional types. <i>Global Ecology and Biogeography</i> , 2017, 26, 304-317.	5.8	25
32	Scale-Dependent Performance of CMIP5 Earth System Models in Simulating Terrestrial Vegetation Carbon*. <i>Journal of Climate</i> , 2015, 28, 5217-5232.	3.2	24
33	Variation of parameters in a Flux-Based Ecosystem Model across 12 sites of terrestrial ecosystems in the conterminous USA. <i>Ecological Modelling</i> , 2016, 336, 57-69.	2.5	24
34	Forecasting Responses of a Northern Peatland Carbon Cycle to Elevated CO <sub>2</sub> and a Gradient of Experimental Warming. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1057-1071.	3.0	23
35	Uncovering the critical soil moisture thresholds of plant water stress for European ecosystems. <i>Global Change Biology</i> , 2022, 28, 2111-2123.	9.5	23
36	Biotic responses buffer warming-induced soil organic carbon loss in Arctic tundra. <i>Global Change Biology</i> , 2018, 24, 4946-4959.	9.5	21

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37	The stoichiometry of soil microbial biomass determines metabolic quotient of nitrogen mineralization. <i>Environmental Research Letters</i> , 2020, 15, 034005.	5.2	21
38	Experimental warming altered rates of carbon processes, allocation, and carbon storage in a tallgrass prairie. <i>Ecosphere</i> , 2015, 6, 1-16.	2.2	20
39	Transient Traceability Analysis of Land Carbon Storage Dynamics: Procedures and Its Application to Two Forest Ecosystems. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 2822-2835.	3.8	13
40	Experimental warming amplified opposite impacts of drought vs. wet extremes on ecosystem carbon cycle in a tallgrass prairie. <i>Agricultural and Forest Meteorology</i> , 2019, 276-277, 107635.	4.8	7
41	Tracking Global Patterns of Drought-Induced Productivity Loss Along Severity Gradient. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	6
42	Warmer and wetter climate promotes net primary production in $C_4$ grassland with additional enhancement by hay harvesting. <i>Ecosphere</i> , 2022, 13, .	2.2	2
43	Seasonal and Inter-Annual Variations of Carbon Dioxide Fluxes and Their Determinants in an Alpine Meadow. <i>Frontiers in Plant Science</i> , 0, 13, .	3.6	1