

# Junyi Liang

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

2,065  
citations

361413

20  
h-index

289244

40  
g-index

47  
all docs

47  
docs citations

47  
times ranked

3532  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward more realistic projections of soil carbon dynamics by Earth system models. <i>Global Biogeochemical Cycles</i> , 2016, 30, 40-56.	4.9	343
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	Soil properties control decomposition of soil organic carbon: Results from data-assimilation analysis. <i>Geoderma</i> , 2016, 262, 235-242.	5.1	162
4	Determinants of carbon release from the active layer and permafrost deposits on the Tibetan Plateau. <i>Nature Communications</i> , 2016, 7, 13046.	12.8	141
5	Global patterns of the responses of leaf-level photosynthesis and respiration in terrestrial plants to experimental warming. <i>Journal of Plant Ecology</i> , 2013, 6, 437-447.	2.3	116
6	Transient dynamics of terrestrial carbon storage: mathematical foundation and its applications. <i>Biogeosciences</i> , 2017, 14, 145-161.	3.3	91
7	Stronger warming effects on microbial abundances in colder regions. <i>Scientific Reports</i> , 2016, 5, 18032.	3.3	88
8	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
9	Enhanced decomposition of stable soil organic carbon and microbial catabolic potentials by long-term field warming. <i>Global Change Biology</i> , 2017, 23, 4765-4776.	9.5	74
10	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
11	More replenishment than priming loss of soil organic carbon with additional carbon input. <i>Nature Communications</i> , 2018, 9, 3175.	12.8	69
12	Dual mechanisms regulate ecosystem stability under decade-long warming and hay harvest. <i>Nature Communications</i> , 2016, 7, 11973.	12.8	66
13	Processes regulating progressive nitrogen limitation under elevated carbon dioxide: a meta-analysis. <i>Biogeosciences</i> , 2016, 13, 2689-2699.	3.3	63
14	Methods for estimating temperature sensitivity of soil organic matter based on incubation data: A comparative evaluation. <i>Soil Biology and Biochemistry</i> , 2015, 80, 127-135.	8.8	61
15	Warming Effects on Ecosystem Carbon Fluxes Are Modulated by Plant Functional Types. <i>Ecosystems</i> , 2017, 20, 515-526.	3.4	54
16	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
17	Methodological uncertainty in estimating carbon turnover times of soil fractions. <i>Soil Biology and Biochemistry</i> , 2016, 100, 118-124.	8.8	42
18	Improving allometry models to estimate the above- and belowground biomass of subtropical forest, China. <i>Ecosphere</i> , 2015, 6, 1-15.	2.2	24

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19	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.	3.2	24
20	Biotic responses buffer warming-induced soil organic carbon loss in Arctic tundra. <i>Global Change Biology</i> , 2018, 24, 4946-4959.	9.5	21
21	Long-term impacts of warming drive decomposition and accelerate the turnover of labile, not recalcitrant, carbon. <i>Ecosphere</i> , 2019, 10, e02715.	2.2	21
22	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
23	Microbial functional genes commonly respond to elevated carbon dioxide. <i>Environment International</i> , 2020, 144, 106068.	10.0	20
24	Multi-year incubation experiments boost confidence in model projections of long-term soil carbon dynamics. <i>Nature Communications</i> , 2020, 11, 5864.	12.8	18
25	Priming effect and its regulating factors for fast and slow soil organic carbon pools: A meta-analysis. <i>Pedosphere</i> , 2022, 32, 140-148.	4.0	16
26	Improving Estimations of Spatial Distribution of Soil Respiration Using the Bayesian Maximum Entropy Algorithm and Soil Temperature as Auxiliary Data. <i>PLoS ONE</i> , 2016, 11, e0146589.	2.5	15
27	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
28	Non-uniform seasonal warming regulates vegetation greening and atmospheric CO <sub>2</sub> amplification over northern lands. <i>Environmental Research Letters</i> , 2018, 13, 124008.	5.2	11
29	Evaluating the simulated mean soil carbon transit times by Earth system models using observations. <i>Biogeosciences</i> , 2019, 16, 917-926.	3.3	10
30	Photosynthetic and environmental regulations of the dynamics of soil respiration in a forest ecosystem revealed by analyses of decadal time series. <i>Agricultural and Forest Meteorology</i> , 2020, 282-283, 107863.	4.8	10
31	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
32	Evaluating the E3SM land model version 0 (ELMv0) at a temperate forest site using flux and soil water measurements. <i>Geoscientific Model Development</i> , 2019, 12, 1601-1612.	3.6	7
33	Differential Organic Carbon Mineralization Responses to Soil Moisture in Three Different Soil Orders Under Mixed Forested System. <i>Frontiers in Environmental Science</i> , 2021, 9, .	3.3	7
34	The effect of decreasing permafrost stability on ecosystem carbon in the northeastern margin of the Qinghai-Tibet Plateau. <i>Scientific Reports</i> , 2018, 8, 4172.	3.3	5
35	A Comparison of Linear Conventional and Nonlinear Microbial Models for Simulating Pulse Dynamics of Soil Heterotrophic Respiration in a Semi-Arid Grassland. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006120.	3.0	5
36	Country-level land carbon sink and its causing components by the middle of the twenty-first century. <i>Ecological Processes</i> , 2021, 10, 61.	3.9	5

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37	Towards improved modeling of SOC decomposition: soil water potential beyond the wilting point. <i>Global Change Biology</i> , 2022, 28, 3665-3673.	9.5	5
38	Intensified Soil Moisture Extremes Decrease Soil Organic Carbon Decomposition: A Mechanistic Modeling Analysis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006392.	3.0	3
39	Response to Smith's comment. <i>Journal of Plant Ecology</i> , 2015, 8, 335-335.	2.3	1
40	Long-term measurements in a mixed-grass prairie reveal a change in soil organic carbon recalcitrance and its environmental sensitivity under warming. <i>Oecologia</i> , 2021, 197, 989-1002.	2.0	1