Junyi Liang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1558169/publications.pdf

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40	2,065	361413	289244
papers	citations	20 h-index	40 g-index

47	47	47	3532
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Priming effect and its regulating factors for fast and slow soil organic carbon pools: A meta-analysis. Pedosphere, 2022, 32, 140-148.	4.0	16
2	Towards improved modeling of SOC decomposition: soil water potential beyond the wilting point. Global Change Biology, 2022, 28, 3665-3673.	9.5	5
3	Long-term measurements in a mixed-grass prairie reveal a change in soil organic carbon recalcitrance and its environmental sensitivity under warming. Oecologia, 2021, 197, 989-1002.	2.0	1
4	A Comparison of Linear Conventional and Nonlinear Microbial Models for Simulating Pulse Dynamics of Soil Heterotrophic Respiration in a Semiâ€Arid Grassland. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006120.	3.0	5
5	Differential Organic Carbon Mineralization Responses to Soil Moisture in Three Different Soil Orders Under Mixed Forested System. Frontiers in Environmental Science, 2021, 9, .	3.3	7
6	Intensified Soil Moisture Extremes Decrease Soil Organic Carbon Decomposition: A Mechanistic Modeling Analysis. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006392.	3.0	3
7	Country-level land carbon sink and its causing components by the middle of the twenty-first century. Ecological Processes, 2021, 10, 61.	3.9	5
8	Photosynthetic and environmental regulations of the dynamics of soil respiration in a forest ecosystem revealed by analyses of decadal time series. Agricultural and Forest Meteorology, 2020, 282-283, 107863.	4.8	10
9	Microbial functional genes commonly respond to elevated carbon dioxide. Environment International, 2020, 144, 106068.	10.0	20
10	Multi-year incubation experiments boost confidence in model projections of long-term soil carbon dynamics. Nature Communications, 2020, 11, 5864.	12.8	18
11	Experimental warming amplified opposite impacts of drought vs. wet extremes on ecosystem carbon cycle in a tallgrass prairie. Agricultural and Forest Meteorology, 2019, 276-277, 107635.	4.8	7
12	Evaluating the E3SM land model version 0 (ELMv0) at a temperate forest site using flux and soil water measurements. Geoscientific Model Development, 2019, 12, 1601-1612.	3.6	7
13	Longâ€term impacts of warming drive decomposition and accelerate the turnover of labile, not recalcitrant, carbon. Ecosphere, 2019, 10, e02715.	2.2	21
14	Evaluating the simulated mean soil carbon transit times by Earth system models using observations. Biogeosciences, 2019, 16, 917-926.	3.3	10
15	Global patterns of extreme drought-induced loss in land primary production: Identifying ecological extremes from rain-use efficiency. Science of the Total Environment, 2018, 628-629, 611-620.	8.0	69
16	The effect of decreasing permafrost stability on ecosystem carbon in the northeastern margin of the Qinghaiâ€“Tibet Plateau. Scientific Reports, 2018, 8, 4172.	3.3	5
17	Sources of Uncertainty in Modeled Land Carbon Storage within and across Three MIPs: Diagnosis with Three New Techniques. Journal of Climate, 2018, 31, 2833-2851.	3.2	24
18	Non-uniform seasonal warming regulates vegetation greening and atmospheric CO ₂ amplification over northern lands. Environmental Research Letters, 2018, 13, 124008.	5.2	11

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19	Biotic responses buffer warmingâ€induced soil organic carbon loss in Arctic tundra. Global Change Biology, 2018, 24, 4946-4959.	9.5	21
20	More replenishment than priming loss of soil organic carbon with additional carbon input. Nature Communications, 2018, 9, 3175.	12.8	69
21	Terrestrial ecosystem model performance in simulating productivity and its vulnerability to climate change in the northern permafrost region. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 430-446.	3.0	47
22	Enhanced decomposition of stable soil organic carbon and microbial catabolic potentials by longâ€term field warming. Global Change Biology, 2017, 23, 4765-4776.	9.5	74
23	Asymmetric responses of primary productivity to precipitation extremes: A synthesis of grassland precipitation manipulation experiments. Global Change Biology, 2017, 23, 4376-4385.	9.5	231
24	Transient Traceability Analysis of Land Carbon Storage Dynamics: Procedures and Its Application to Two Forest Ecosystems. Journal of Advances in Modeling Earth Systems, 2017, 9, 2822-2835.	3.8	13
25	Warming Effects on Ecosystem Carbon Fluxes Are Modulated by Plant Functional Types. Ecosystems, 2017, 20, 515-526.	3.4	54
26	Transient dynamics of terrestrial carbon storage: mathematical foundation and its applications. Biogeosciences, 2017, 14, 145-161.	3.3	91
27	Processes regulating progressive nitrogen limitation under elevated carbon dioxide: a meta-analysis. Biogeosciences, 2016, 13, 2689-2699.	3.3	63
28	Improving Estimations of Spatial Distribution of Soil Respiration Using the Bayesian Maximum Entropy Algorithm and Soil Temperature as Auxiliary Data. PLoS ONE, 2016, 11, e0146589.	2.5	15
29	Stronger warming effects on microbial abundances in colder regions. Scientific Reports, 2016, 5, 18032.	3.3	88
30	Dual mechanisms regulate ecosystem stability under decade-long warming and hay harvest. Nature Communications, 2016, 7, 11973.	12.8	66
31	Determinants of carbon release from the active layer and permafrost deposits on the Tibetan Plateau. Nature Communications, 2016, 7, 13046.	12.8	141
32	Methodological uncertainty in estimating carbon turnover times of soil fractions. Soil Biology and Biochemistry, 2016, 100, 118-124.	8.8	42
33	Toward more realistic projections of soil carbon dynamics by Earth system models. Global Biogeochemical Cycles, 2016, 30, 40-56.	4.9	343
34	Soil properties control decomposition of soil organic carbon: Results from data-assimilation analysis. Geoderma, 2016, 262, 235-242.	5.1	162
35	Experimental warming altered rates of carbon processes, allocation, and carbon storage in a tallgrass prairie. Ecosphere, 2015, 6, 1-16.	2.2	20
36	Evidence for longâ€term shift in plant community composition under decadal experimental warming. Journal of Ecology, 2015, 103, 1131-1140.	4.0	78

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37	Improving allometry models to estimate the aboveâ€•and belowground biomass of subtropical forest, China. Ecosphere, 2015, 6, 1-15.	2.2	24
38	Response to Smithâ€™s comment. Journal of Plant Ecology, 2015, 8, 335-335.	2.3	1
39	Methods for estimating temperature sensitivity of soil organic matter based on incubation data: A comparative evaluation. Soil Biology and Biochemistry, 2015, 80, 127-135.	8.8	61
40	Global patterns of the responses of leaf-level photosynthesis and respiration in terrestrial plants to experimental warming. Journal of Plant Ecology, 2013, 6, 437-447.	2.3	116