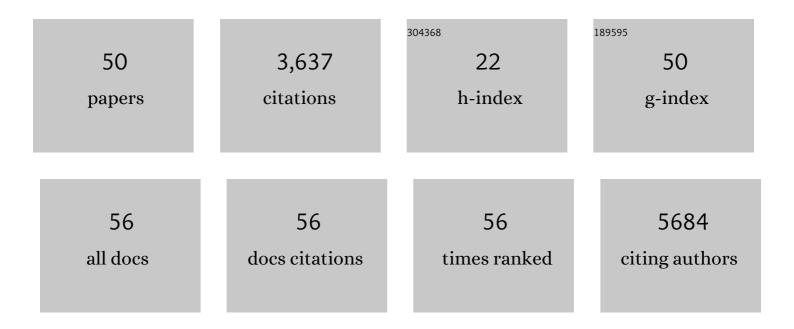


## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8350115/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Nitrification, denitrification, and competition for soil <scp>N</scp> : Evaluation of two <scp>Earth System Models</scp> against observations. Ecological Applications, 2022, 32, e2528.	1.8	6
2	Guidelines for Publicly Archiving Terrestrial Model Data to Enhance Usability, Intercomparison, and Synthesis. Data Science Journal, 2022, 21, 3.	0.6	3
3	Microbial contribution to post-fire tundra ecosystem recovery over the 21st century. Communications Earth & Environment, 2022, 3, .	2.6	6
4	Supporting hierarchical soil biogeochemical modeling: version 2 of the Biogeochemical Transport and Reaction model (BeTR-v2). Geoscientific Model Development, 2022, 15, 1619-1632.	1.3	1
5	Building a machine learning surrogate model for wildfire activities within a global Earth system model. Geoscientific Model Development, 2022, 15, 1899-1911.	1.3	13
6	Wetter California Projected by CMIP6 Models With Observational Constraints Under a High GHG Emission Scenario. Earth's Future, 2022, 10, .	2.4	11
7	Understanding and reducing the uncertainties of land surface energy flux partitioning within CMIP6 land models. Agricultural and Forest Meteorology, 2022, 319, 108920.	1.9	16
8	Warming and Increased Respiration Have Transformed an Alpine Steppe Ecosystem on the Tibetan Plateau From a Carbon Dioxide Sink Into a Source. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	5
9	Diurnal Rainfall Response to the Physiological and Radiative Effects of CO <sub>2</sub> in Tropical Forests in the Energy Exascale Earth System Model v1. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	1
10	Global multi-model projections of local urban climates. Nature Climate Change, 2021, 11, 152-157.	8.1	149
11	Deforestation reshapes land-surface energy-flux partitioning. Environmental Research Letters, 2021, 16, 024014.	2.2	19
12	Warm-season net CO2 uptake outweighs cold-season emissions over Alaskan North Slope tundra under current and RCP8.5 climate. Environmental Research Letters, 2021, 16, 055012.	2.2	6
13	Increased extreme rains intensify erosional nitrogen and phosphorus fluxes to the northern Gulf of Mexico in recent decades. Environmental Research Letters, 2021, 16, 054080.	2.2	12
14	Identifying dominant environmental predictors of freshwater wetland methane fluxes across diurnal to seasonal time scales. Global Change Biology, 2021, 27, 3582-3604.	4.2	59
15	The influence of fire aerosols on surface climate and gross primary production in the Energy Exascale Earth System Model (E3SM). Journal of Climate, 2021, , 1-60.	1.2	3
16	Non-growing season plant nutrient uptake controls Arctic tundra vegetation composition under future climate. Environmental Research Letters, 2021, 16, 074047.	2.2	13
17	Toward a framework for the multimodel ensemble prediction of soil nitrogen losses. Ecological Modelling, 2021, 456, 109675.	1.2	3
18	Improved ELMv1-ECA simulations of zero-curtain periods and cold-season CH <sub>4</sub> and CO <sub>2</sub> emissions at Alaskan Arctic tundra sites. Cryosphere, 2021, 15, 5281-5307.	1.5	5

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19	A substantial role of soil erosion in the land carbon sink and its future changes. Global Change Biology, 2020, 26, 2642-2655.	4.2	30
20	Mathematical Reconstruction of Land Carbon Models From Their Numerical Output: Computing Soil Radiocarbon From C Dynamics. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001776.	1.3	6
21	The DOE E3SM v1.1 Biogeochemistry Configuration: Description and Simulated Ecosystemâ€Climate Responses to Historical Changes in Forcing. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001766.	1.3	65
22	Alaskan carbon-climate feedbacks will be weaker than inferred from short-term experiments. Nature Communications, 2020, 11, 5798.	5.8	18
23	Assessing Impacts of Plant Stoichiometric Traits on Terrestrial Ecosystem Carbon Accumulation Using the E3SM Land Model. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001841.	1.3	14
24	The age distribution of global soil carbon inferred from radiocarbon measurements. Nature Geoscience, 2020, 13, 555-559.	5.4	123
25	The Central Amazon Biomass Sink Under Current and Future Atmospheric CO <sub>2</sub> : Predictions From Bigâ€Leaf and Demographic Vegetation Models. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JC005500.	1.3	23
26	The Global Methane Budget 2000–2017. Earth System Science Data, 2020, 12, 1561-1623.	3.7	1,199
27	DSCOVR/EPIC-derived global hourly and daily downward shortwave and photosynthetically active radiation data at 0.1° × 0.1° resolution. Earth System Science Data, 2020, 12, 2209-2221.	3.7	21
28	Estimating hourly land surface downward shortwave and photosynthetically active radiation from DSCOVR/EPIC observations. Remote Sensing of Environment, 2019, 232, 111320.	4.6	40
29	Amazon forest response to CO2 fertilization dependent on plant phosphorus acquisition. Nature Geoscience, 2019, 12, 736-741.	5.4	177
30	Improving Representation of Deforestation Effects on Evapotranspiration in the E3SM Land Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 2412-2427.	1.3	28
31	Representing Nitrogen, Phosphorus, and Carbon Interactions in the E3SM Land Model: Development and Clobal Benchmarking. Journal of Advances in Modeling Earth Systems, 2019, 11, 2238-2258.	1.3	74
32	Using Information Theory to Evaluate Directional Precipitation Interactions Over the West Sahel Region in Observations and Models. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1463-1473.	1.2	8
33	Comparison With Global Soil Radiocarbon Observations Indicates Needed Carbon Cycle Improvements in the E3SM Land Model. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 1098-1114.	1.3	9
34	The DOE E3SM Coupled Model Version 1: Overview and Evaluation at Standard Resolution. Journal of Advances in Modeling Earth Systems, 2019, 11, 2089-2129.	1.3	404
35	Observed variation in soil properties can drive large variation in modelled forest functioning and composition during tropical forest secondary succession. New Phytologist, 2019, 223, 1820-1833.	3.5	40
36	Interactions between urban heat islands and heat waves. Environmental Research Letters, 2018, 13, 034003.	2.2	246

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37	Weaker land–climate feedbacks from nutrient uptake during photosynthesis-inactive periods. Nature Climate Change, 2018, 8, 1002-1006.	8.1	37
38	Global soil consumption of atmospheric carbon monoxide: an analysis using a process-based biogeochemistry model. Atmospheric Chemistry and Physics, 2018, 18, 7913-7931.	1.9	16
39	A new theory of plant–microbe nutrient competition resolves inconsistencies between observations and model predictions. Ecological Applications, 2017, 27, 875-886.	1.8	90
40	Multiple soil nutrient competition between plants, microbes, and mineral surfaces: model development, parameterization, and example applications in several tropical forests. Biogeosciences, 2016, 13, 341-363.	1.3	125
41	Root traits explain observed tundra vegetation nitrogen uptake patterns: Implications for traitâ€based land models. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 3101-3112.	1.3	52
42	Quantifying microbial ecophysiological effects on the carbon fluxes of forest ecosystems over the conterminous United States. Climatic Change, 2015, 133, 695-708.	1.7	2
43	Ecosystem biogeochemistry model parameterization: Do more flux data result in a better model in predicting carbon flux?. Ecosphere, 2015, 6, 1-20.	1.0	10
44	Evapotranspiration in Northern Eurasia: Impact of forcing uncertainties on terrestrial ecosystem model estimates. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2647-2660.	1.2	26
45	Improved modelling of soil nitrogen losses. Nature Climate Change, 2015, 5, 705-706.	8.1	56
46	Modelling methane emissions from natural wetlands by development and application of the TRIPLEX-GHG model. Geoscientific Model Development, 2014, 7, 981-999.	1.3	84
47	Parameterization and sensitivity analysis of a processâ€based terrestrial ecosystem model using adjoint method. Journal of Advances in Modeling Earth Systems, 2014, 6, 315-331.	1.3	23
48	Improving the quantification of terrestrial ecosystem carbon dynamics over the United States using an adjoint method. Ecosphere, 2013, 4, 1-21.	1.0	9
49	The North American Carbon Program Multi-Scale Synthesis and Terrestrial Model Intercomparison Project – Part 1: Overview and experimental design. Geoscientific Model Development, 2013, 6, 2121-2133.	1.3	212
50	Modeling the effects of organic nitrogen uptake by plants on the carbon cycling of boreal forest and tundra ecosystems. Biogeosciences, 2013, 10, 7943-7955.	1.3	22