

# Tuomas Laurell

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

773  
citations

471509

17  
h-index

526287

27  
g-index

78  
all docs

78  
docs citations

78  
times ranked

1968  
citing authors

#	ARTICLE	IF	CITATIONS
1	Atmospheric constraints on the methane emissions from the East Siberian Shelf. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4147-4157.	4.9	69
2	Forestation of boreal peatlands: Impacts of changing albedo and greenhouse gas fluxes on radiative forcing. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	64
3	Pan-Eurasian Experiment (PEEX): towards a holistic understanding of the feedbacks and interactions in the land-atmosphere-ocean-society continuum in the northern Eurasian region. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14421-14461.	4.9	57
4	Measurement of the <sup>13</sup> C isotopic signature of methane emissions from northern European wetlands. <i>Global Biogeochemical Cycles</i> , 2017, 31, 605-623.	4.9	52
5	Persistent carbon sink at a boreal drained bog forest. <i>Biogeosciences</i> , 2018, 15, 3603-3624.	3.3	47
6	Large contribution of boreal upland forest soils to a catchment-scale CH <sub>4</sub> balance in a wet year. <i>Geophysical Research Letters</i> , 2016, 43, 2946-2953.	4.0	41
7	Modelling sun-induced fluorescence and photosynthesis with a land surface model at local and regional scales in northern Europe. <i>Biogeosciences</i> , 2017, 14, 1969-1987.	3.3	40
8	Greenhouse gas and energy fluxes in a boreal peatland forest after clear-cutting. <i>Biogeosciences</i> , 2019, 16, 3703-3723.	3.3	39
9	Lateral expansion and carbon exchange of a boreal peatland in Finland resulting in 7000 years of positive radiative forcing. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 562-577.	3.0	31
10	Interpreting eddy covariance data from heterogeneous Siberian tundra: land-cover-specific methane fluxes and spatial representativeness. <i>Biogeosciences</i> , 2019, 16, 255-274.	3.3	30
11	Development, carbon accumulation, and radiative forcing of a subarctic fen over the Holocene. <i>Holocene</i> , 2014, 24, 1156-1166.	1.7	26
12	Carbon balance of a grazed savanna grassland ecosystem in South Africa. <i>Biogeosciences</i> , 2017, 14, 1039-1054.	3.3	26
13	Spatial variation and linkages of soil and vegetation in the Siberian Arctic tundra - coupling field observations with remote sensing data. <i>Biogeosciences</i> , 2018, 15, 2781-2801.	3.3	26
14	Methane exchange at the peatland forest floor - automatic chamber system exposes the dynamics of small fluxes. <i>Biogeosciences</i> , 2017, 14, 1947-1967.	3.3	24
15	The ABCflux database: Arctic boreal CO <sub>2</sub> flux observations and ancillary information aggregated to monthly time steps across terrestrial ecosystems. <i>Earth System Science Data</i> , 2022, 14, 179-208.	9.9	22
16	Detectability of Arctic methane sources at six sites performing continuous atmospheric measurements. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8371-8394.	4.9	20
17	Digital photography for assessing the link between vegetation phenology and CO <sub>2</sub> exchange in two contrasting northern ecosystems. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2016, 5, 417-426.	1.6	18
18	New particle formation in the fresh flue-gas plume from a coal-fired power plant: effect of flue-gas cleaning. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7485-7496.	4.9	17

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19	Carbon dioxide and methane exchange of a patterned subarctic fen during two contrasting growing seasons. <i>Biogeosciences</i> , 2021, 18, 873-896.	3.3	15
20	Carbon dioxide fluxes and carbon balance of an agricultural grassland in southern Finland. <i>Biogeosciences</i> , 2021, 18, 3467-3483.	3.3	14
21	Evaluation and optimization of ICOS atmosphere station data as part of the labeling process. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 89-116.	3.1	13
22	Methane budget estimates in Finland from the CarbonTracker Europe-CH <sub>4</sub> data assimilation system. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 71, 1565030.	1.6	11
23	Late-spring and summertime tropospheric ozone and NO <sub>2</sub> in western Siberia and the Russian Arctic: regional model evaluation and sensitivities. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 4677-4697.	4.9	11
24	Measuring turbulent CO <sub>2</sub> fluxes with a closed-path gas analyzer in a marine environment. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5335-5350.	3.1	10
25	Water flow controls the spatial variability of methane emissions in a northern valley fen ecosystem. <i>Biogeosciences</i> , 2020, 17, 6247-6270.	3.3	10
26	Towards agricultural soil carbon monitoring, reporting, and verification through the Field Observatory Network (FiON). <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2022, 11, 93-109.	1.6	8
27	Variation in CO <sub>2</sub> and CH <sub>4</sub> fluxes among land cover types in heterogeneous Arctic tundra in northeastern Siberia. <i>Biogeosciences</i> , 2022, 19, 3151-3167.	3.3	6
28	Measurement report: Characterization of uncertainties in fluxes and fuel sulfur content from ship emissions in the Baltic Sea. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 18175-18194.	4.9	4