Magnus Lund

List of Publications by Year
in descending order

63 papers	3,483 citations	147801 31 h-index	149698 56 g-index
79 all docs	79 docs citations	79 times ranked	5350 citing authors

#	Article	IF	Citations
1	Key indicators of Arctic climate change: 1971â€“2017. Environmental Research Letters, 2019, 14, 045010.	5.2	471
2	Joint control of terrestrial gross primary productivity by plant phenology and physiology. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2788-2793.	7.1	265
3	Large loss of CO2 in winter observed across the northern permafrost region. Nature Climate Change, 2019, 9, 852-857.	18.8	225
4	The uncertain climate footprint of wetlands under human pressure. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4594-4599.	7.1	171
5	Variability in exchange of CO₂ across 12 northern peatland and tundra sites. Global Change Biology, 2010, 16, 2436-2448.	9.5	144
6	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. New Phytologist, 2012, 194, 775-783.	7.3	111
7	Revisiting factors controlling methane emissions from high-Arctic tundra. Biogeosciences, 2013, 10, 5139-5158.	3.3	103
8	Response of an arctic predator guild to collapsing lemming cycles. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4417-4422.	2.6	92
9	Effects of drought conditions on the carbon dioxide dynamics in a temperate peatland. Environmental Research Letters, 2012, 7, 045704.	5.2	91
10	On the relationship between sub-daily instantaneous and daily total gross primary production: Implications for interpreting satellite-based SIF retrievals. Remote Sensing of Environment, 2018, 205, 276-289.	11.0	91
11	Landâ€atmosphere exchange of methane from soil thawing to soil freezing in a highâ€<scp>A</scp>rctic wet tundra ecosystem. Global Change Biology, 2012, 18, 1928-1940.	9.5	89
12	Environmental controls on the CO₂ exchange in north European mires. Tellus, Series B: Chemical and Physical Meteorology, 2022, 59, 812.	1.6	75
13	Estimating northern peatland CO2 exchange from MODIS time series data. Remote Sensing of Environment, 2010, 114, 1178-1189.	11.0	69
14	Effects of N and P fertilization on the greenhouse gas exchange in two northern peatlands with contrasting N deposition rates. Biogeosciences, 2009, 6, 2135-2144.	3.3	68
15	Trends in CO₂ exchange in a high Arctic tundra heath, 2000â€“2010. Journal of Geophysical Research, 2012, 117, .	3.3	63
16	Annual CO2 balance of a temperate bog. Tellus, Series B: Chemical and Physical Meteorology, 2007, 59, 804-811.	1.6	62
17	Camera derived vegetation greenness index as proxy for gross primary production in a low Arctic wetland area. ISPRS Journal of Photogrammetry and Remote Sensing, 2013, 86, 89-99.	11.1	59
18	Latent heat exchange in the boreal and arctic biomes. Global Change Biology, 2014, 20, 3439-3456.	9.5	52

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19	Synthesizing greenhouse gas fluxes across nine European peatlands and shrublands â€“ responses to climatic and environmental changes. Biogeosciences, 2012, 9, 3739-3755.	3.3	46
20	Transitions in high-Arctic vegetation growth patterns and ecosystem productivity tracked with automated cameras from 2000 to 2013. Ambio, 2017, 46, 39-52.	5.5	45
21	Spatiotemporal Characteristics of Seasonal Snow Cover in Northeast Greenland from in Situ Observations. Arctic, Antarctic, and Alpine Research, 2016, 48, 653-671.	1.1	43
22	Carbon stocks and fluxes in the high latitudes: using site-level data to evaluate Earth system models. Biogeosciences, 2017, 14, 5143-5169.	3.3	43
23	ORCHIDEE-PEAT (revision 4596), a model for northern peatland CO₂, water, and energy fluxes on daily to annual scales. Geoscientific Model Development, 2018, 11, 497-519.	3.6	43
24	Calculations of automatic chamber flux measurements of methane and carbon dioxide using short time series of concentrations. Biogeosciences, 2016, 13, 903-912.	3.3	41
25	Larval outbreaks in West Greenland: Instant and subsequent effects on tundra ecosystem productivity and CO2 exchange. Ambio, 2017, 46, 26-38.	5.5	41
26	Mercury exports from a High-Arctic river basin in Northeast Greenland (74Â°N) largely controlled by glacial lake outburst floods. Science of the Total Environment, 2015, 514, 83-91.	8.0	39
27	Shallow soils are warmer under trees and tall shrubs across Arctic and Boreal ecosystems. Environmental Research Letters, 2021, 16, 015001.	5.2	39
28	Empirical estimation of daytime net radiation from shortwave radiation and ancillary information. Agricultural and Forest Meteorology, 2015, 211-212, 23-36.	4.8	38
29	Exchange of CO₂ in Arctic tundra: impacts of meteorological variations and biological disturbance. Biogeosciences, 2017, 14, 4467-4483.	3.3	37
30	Seasonal variation of photosynthetic model parameters and leaf area index from global Fluxnet eddy covariance data. Journal of Geophysical Research, 2011, 116, .	3.3	35
31	Spatiotemporal snowmelt patterns within a high Arctic landscape, with implications for flora and fauna. Arctic, Antarctic, and Alpine Research, 2018, 50, .	1.1	35
32	Warming, shading and a moth outbreak reduce tundra carbon sink strength dramatically by changing plant cover and soil microbial activity. Scientific Reports, 2017, 7, 16035.	3.3	33
33	Two years with extreme and little snowfall: effects on energy partitioning and surface energy exchange in a high-Arctic tundra ecosystem. Cryosphere, 2016, 10, 1395-1413.	3.9	32
34	Quantifying snow controls on vegetation greenness. Ecosphere, 2018, 9, e02309.	2.2	31
35	Thermal adaptation of net ecosystem exchange. Biogeosciences, 2011, 8, 1453-1463.	3.3	30
36	Controls of spatial and temporal variability in CH4 flux in a high arctic fen over three years. Biogeochemistry, 2015, 125, 21-35.	3.5	30

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37	Hotspots and key periods of Greenland climate change during the past six decades. Ambio, 2017, 46, 3-11.	5.5	29
38	Multiple Ecosystem Effects of Extreme Weather Events in the Arctic. Ecosystems, 2021, 24, 122-136.	3.4	29
39	Snowpack fluxes of methane and carbon dioxide from high Arctic tundra. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2886-2900.	3.0	26
40	Characteristics of summer-time energy exchange in a high Arctic tundra heath 2000â€“2010. Tellus, Series B: Chemical and Physical Meteorology, 2022, 66, 21631.	1.6	25
41	Assessment and simulation of global terrestrial latent heat flux by synthesis of CMIP5 climate models and surface eddy covariance observations. Agricultural and Forest Meteorology, 2016, 223, 151-167.	4.8	25
42	Spatiotemporal variability in surface energy balance across tundra, snow and ice in Greenland. Ambio, 2017, 46, 81-93.	5.5	25
43	Refining the role of phenology in regulating gross ecosystem productivity across European peatlands. Global Change Biology, 2020, 26, 876-887.	9.5	25
44	Modelling of growing season methane fluxes in a high-Arctic wet tundra ecosystem 1997â€“2010 using in situ and high-resolution satellite data. Tellus, Series B: Chemical and Physical Meteorology, 2013, 65, 19722.	1.6	24
45	Model-data fusion to assess year-round CO2 fluxes for an arctic heath ecosystem in West Greenland (69Â°N). Agricultural and Forest Meteorology, 2019, 272-273, 176-186.	4.8	23
46	Simulation of CO2 and Attribution Analysis at Six European Peatland Sites Using the ECOSSE Model. Water, Air, and Soil Pollution, 2014, 225, 1.	2.4	21
47	Low impact of dry conditions on the CO ₂ exchange of a Northern-Norwegian blanket bog. Environmental Research Letters, 2015, 10, 025004.	5.2	21
48	Evaluation of terrestrial pan-Arctic carbon cycling using a data-assimilation system. Earth System Dynamics, 2019, 10, 233-255.	7.1	21
49	Assessing the spatial variability in peak season CO₂ exchange characteristics across the Arctic tundra using a light response curve parameterization. Biogeosciences, 2014, 11, 4897-4912.	3.3	20
50	Toward a statistical description of methane emissions from arctic wetlands. Ambio, 2017, 46, 70-80.	5.5	19
51	Towards quantifying the glacial runoff signal in the freshwater input to Tyrolerfjordâ€“Young Sound, NE Greenland. Ambio, 2017, 46, 146-159.	5.5	18
52	Impact of nutrients on peatland GPP estimations using MODIS time series data. Remote Sensing of Environment, 2010, 114, 2137-2145.	11.0	16
53	Divergent apparent temperature sensitivity of terrestrial ecosystem respiration. Journal of Plant Ecology, 2014, 7, 419-428.	2.3	16
54	A New Processâ€Based Soil Methane Scheme: Evaluation Over Arctic Field Sites With the ISBA Land Surface Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 293-326.	3.8	16

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55	Vegetation phenology gradients along the west and east coasts of Greenland from 2001 to 2015. Ambio, 2017, 46, 94-105.	5.5	14
56	Vulnerability and resilience of the carbon exchange of a subarctic peatland to an extreme winter event. Environmental Research Letters, 2018, 13, 065009.	5.2	13
57	Deltas, freshwater discharge, and waves along the Young Sound, NE Greenland. Ambio, 2017, 46, 132-145.	5.5	12
58	Processâ€Oriented Modeling of a High Arctic Tundra Ecosystem: Longâ€Term Carbon Budget and Ecosystem Responses to Interannual Variations of Climate. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 1178-1196.	3.0	12
59	Plant Traits are Key Determinants in Buffering the Meteorological Sensitivity of Net Carbon Exchanges of Arctic Tundra. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2675-2694.	3.0	11
60	Arctic river temperature dynamics in a changing climate. River Research and Applications, 2019, 35, 1212-1227.	1.7	11
61	Spatioâ€temporal dynamics of macroinvertebrate communities in northeast Greenlandic snowmelt streams. Ecohydrology, 2018, 11, e1982.	2.4	10
62	Uncovering the unknownâ€"climate interactions in a changing arctic tundra. Environmental Research Letters, 2018, 13, 061001.	5.2	3
63	Estimation of Gross Primary Productivity of an Ombrotrophic Bog in Southern Sweden. , 2008, , .		1