

Mikhail A Mastepanov

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

4,103
citations

186265

28
h-index

206112

48
g-index

61
all docs

61
docs citations

61
times ranked

5194
citing authors

#	ARTICLE	IF	CITATIONS
1	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020, 7, 225.	5.3	646
2	The effect of vascular plants on carbon turnover and methane emissions from a tundra wetland. <i>Global Change Biology</i> , 2003, 9, 1185-1192.	9.5	284
3	Large tundra methane burst during onset of freezing. <i>Nature</i> , 2008, 456, 628-630.	27.8	283
4	Species-specific Effects of Vascular Plants on Carbon Turnover and Methane Emissions from Wetlands. <i>Biogeochemistry</i> , 2005, 75, 65-82.	3.5	282
5	Ancient bacteria show evidence of DNA repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14401-14405.	7.1	249
6	Decadal vegetation changes in a northern peatland, greenhouse gas fluxes and net radiative forcing. <i>Global Change Biology</i> , 2006, 12, 2352-2369.	9.5	214
7	Microbial activity in soils frozen to below $\sim 39^{\circ}\text{C}$. <i>Soil Biology and Biochemistry</i> , 2006, 38, 785-794.	8.8	202
8	The uncertain climate footprint of wetlands under human pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4594-4599.	7.1	171
9	Annual cycle of methane emission from a subarctic peatland. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	128
10	Increased nitrous oxide emissions from Arctic peatlands after permafrost thaw. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6238-6243.	7.1	119
11	Annual carbon gas budget for a subarctic peatland, Northern Sweden. <i>Biogeosciences</i> , 2010, 7, 95-108.	3.3	118
12	Presence of <i>Eriophorum scheuchzeri</i> enhances substrate availability and methane emission in an Arctic wetland. <i>Soil Biology and Biochemistry</i> , 2012, 45, 61-70.	8.8	116
13	Biotic controls on CO ₂ and CH ₄ exchange in wetlands – a closed environment study. <i>Biogeochemistry</i> , 2003, 64, 337-354.	3.5	107
14	Revisiting factors controlling methane emissions from high-Arctic tundra. <i>Biogeosciences</i> , 2013, 10, 5139-5158.	3.3	103
15	Land-atmosphere exchange of methane from soil thawing to soil freezing in a high-Arctic wet tundra ecosystem. <i>Global Change Biology</i> , 2012, 18, 1928-1940.	9.5	89
16	A catchment-scale carbon and greenhouse gas budget of a subarctic landscape. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 1643-1656.	3.4	76
17	Effects of N and P fertilization on the greenhouse gas exchange in two northern peatlands with contrasting N deposition rates. <i>Biogeosciences</i> , 2009, 6, 2135-2144.	3.3	68
18	BVOC ecosystem flux measurements at a high latitude wetland site. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1617-1634.	4.9	62

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19	Monitoring the Multi-Year Carbon Balance of a Subarctic Palsa Mire with Micrometeorological Techniques. <i>Ambio</i> , 2012, 41, 207-217.	5.5	60
20	Ecosystem carbon response of an Arctic peatland to simulated permafrost thaw. <i>Global Change Biology</i> , 2019, 25, 1746-1764.	9.5	52
21	Moisture Effects on Temperature Sensitivity of CO ₂ Exchange in a Subarctic Heath Ecosystem. <i>Biogeochemistry</i> , 2004, 70, 315-330.	3.5	48
22	Quantification of C uptake in subarctic birch forest after setback by an extreme insect outbreak. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	42
23	Total hydrocarbon flux dynamics at a subarctic mire in northern Sweden. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	41
24	Calculations of automatic chamber flux measurements of methane and carbon dioxide using short time series of concentrations. <i>Biogeosciences</i> , 2016, 13, 903-912.	3.3	41
25	Non-methane volatile organic compound flux from a subarctic mire in Northern Sweden. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 60, 226.	1.6	33
26	Two years with extreme and little snowfall: effects on energy partitioning and surface energy exchange in a high-Arctic tundra ecosystem. <i>Cryosphere</i> , 2016, 10, 1395-1413.	3.9	32
27	High-resolution satellite data reveal an increase in peak growing season gross primary production in a high-Arctic wet tundra ecosystem 1992–2008. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2012, 18, 407-416.	2.8	31
28	Methane emission bursts from permafrost environments during autumn freeze-up: New insights from ground-penetrating radar. <i>Geophysical Research Letters</i> , 2015, 42, 6732-6738.	4.0	30
29	Controls of spatial and temporal variability in CH ₄ flux in a high arctic fen over three years. <i>Biogeochemistry</i> , 2015, 125, 21-35.	3.5	30
30	Multiple Ecosystem Effects of Extreme Weather Events in the Arctic. <i>Ecosystems</i> , 2021, 24, 122-136.	3.4	29
31	Snowpack fluxes of methane and carbon dioxide from high Arctic tundra. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2886-2900.	3.0	26
32	Spatial variability of CO ₂ uptake in polygonal tundra: assessing low-frequency disturbances in eddy covariance flux estimates. <i>Biogeosciences</i> , 2017, 14, 3157-3169.	3.3	25
33	Modelling of growing season methane fluxes in a high-Arctic wet tundra ecosystem 1997–2010 using in situ and high-resolution satellite data. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2013, 65, 1972.	1.6	24
34	Membrane probe array: Technique development and observation of CO ₂ and CH ₄ diurnal oscillations in peat profile. <i>Soil Biology and Biochemistry</i> , 2007, 39, 1712-1723.	8.8	22
35	Multi-year data-model evaluation reveals the importance of nutrient availability over climate in arctic ecosystem C dynamics. <i>Environmental Research Letters</i> , 2020, 15, 094007.	5.2	22
36	The ABCflux database: Arctic boreal CO ₂ 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

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37	Toward a statistical description of methane emissions from arctic wetlands. <i>Ambio</i> , 2017, 46, 70-80.	5.5	19
38	A New Processâ€Based Soil Methane Scheme: Evaluation Over Arctic Field Sites With the ISBA Land Surface Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 293-326.	3.8	16
39	Earlier snowmelt may lead to late season declines in plant productivity and carbon sequestration in Arctic tundra ecosystems. <i>Scientific Reports</i> , 2022, 12, 3986.	3.3	16
40	Tundra permafrost thaw causes significant shifts in energy partitioning. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 68, 30467.	1.6	15
41	Bimembrane diffusion probe for continuous recording of dissolved and entrapped bubble gas concentrations in peat. <i>Soil Biology and Biochemistry</i> , 2008, 40, 2992-3003.	8.8	9
42	Toward UAV-based methane emission mapping of Arctic terrestrial ecosystems. <i>Science of the Total Environment</i> , 2022, 819, 153161.	8.0	9
43	Methane in Zackenberg Valley, NE Greenland: multidecadal growing season fluxes of a high-Arctic tundra. <i>Biogeosciences</i> , 2021, 18, 6093-6114.	3.3	5
44	Correction for Johnson <i>et al.</i> , Ancient bacteria show evidence of DNA repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 10631-10631.	7.1	4
45	Laboratory Investigations of Methane Buildup in, and Release from, Shallow Peats. <i>Geophysical Monograph Series</i> , 0, , 205-218.	0.1	4
46	Correction for Johnson <i>et al.</i> , Ancient bacteria show evidence of DNA repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 20635-20635.	7.1	4
47	A new dataset of soil carbon and nitrogen stocks and profiles from an instrumented Greenlandic fen designed to evaluate land-surface models. <i>Earth System Science Data</i> , 2020, 12, 2365-2380.	9.9	1