

Mikhail A Mastepanov

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

4,103
citations

186209

28
h-index

206029

48
g-index

61
all docs

61
docs citations

61
times ranked

5194
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	0.8	33
2	Tundra permafrost thaw causes significant shifts in energy partitioning. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 68, 30467.	0.8	15
3	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.	3.7	22
4	Toward UAV-based methane emission mapping of Arctic terrestrial ecosystems. <i>Science of the Total Environment</i> , 2022, 819, 153161.	3.9	9
5	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.	1.6	16
6	Multiple Ecosystem Effects of Extreme Weather Events in the Arctic. <i>Ecosystems</i> , 2021, 24, 122-136.	1.6	29
7	Methane in Zackenberg Valley, NE Greenland: multidecadal growing season fluxes of a high-Arctic tundra. <i>Biogeosciences</i> , 2021, 18, 6093-6114.	1.3	5
8	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020, 7, 225.	2.4	646
9	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.	2.2	22
10	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.	3.7	1
11	Ecosystem carbon response of an Arctic peatland to simulated permafrost thaw. <i>Global Change Biology</i> , 2019, 25, 1746-1764.	4.2	52
12	A New Process-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.	1.3	16
13	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.	3.3	119
14	Toward a statistical description of methane emissions from arctic wetlands. <i>Ambio</i> , 2017, 46, 70-80.	2.8	19
15	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.	1.3	25
16	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.	1.5	32
17	Calculations of automatic chamber flux measurements of methane and carbon dioxide using short time series of concentrations. <i>Biogeosciences</i> , 2016, 13, 903-912.	1.3	41
18	Snowpack fluxes of methane and carbon dioxide from high Arctic tundra. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2886-2900.	1.3	26

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19	Methane emission bursts from permafrost environments during autumn freeze-in: New insights from ground-penetrating radar. <i>Geophysical Research Letters</i> , 2015, 42, 6732-6738.	1.5	30
20	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.	1.7	30
21	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.	3.3	171
22	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, 1972-2000.	0.8	24
23	Revisiting factors controlling methane emissions from high-Arctic tundra. <i>Biogeosciences</i> , 2013, 10, 5139-5158.	1.3	103
24	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.	1.4	31
25	Monitoring the Multi-Year Carbon Balance of a Subarctic Palsa Mire with Micrometeorological Techniques. <i>Ambio</i> , 2012, 41, 207-217.	2.8	60
26	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.	4.2	89
27	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.	4.2	116
28	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.	1.5	42
29	BVOC ecosystem flux measurements at a high latitude wetland site. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1617-1634.	1.9	62
30	Annual carbon gas budget for a subarctic peatland, Northern Sweden. <i>Biogeosciences</i> , 2010, 7, 95-108.	1.3	118
31	Annual cycle of methane emission from a subarctic peatland. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	128
32	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.	1.3	68
33	Large tundra methane burst during onset of freezing. <i>Nature</i> , 2008, 456, 628-630.	13.7	283
34	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.	4.2	9
35	Total hydrocarbon flux dynamics at a subarctic mire in northern Sweden. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	41
36	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.	3.3	4

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37	A catchment-scale carbon and greenhouse gas budget of a subarctic landscape. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 1643-1656.	1.6	76
38	Ancient bacteria show evidence of DNA repair. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14401-14405.	3.3	249
39	Membrane probe array: Technique development and observation of CO ₂ and CH ₄ diurnal oscillations in peat profile. Soil Biology and Biochemistry, 2007, 39, 1712-1723.	4.2	22
40	Decadal vegetation changes in a northern peatland, greenhouse gas fluxes and net radiative forcing. Global Change Biology, 2006, 12, 2352-2369.	4.2	214
41	Microbial activity in soils frozen to below ~39°C. Soil Biology and Biochemistry, 2006, 38, 785-794.	4.2	202
42	Species-specific Effects of Vascular Plants on Carbon Turnover and Methane Emissions from Wetlands. Biogeochemistry, 2005, 75, 65-82.	1.7	282
43	Moisture Effects on Temperature Sensitivity of CO ₂ Exchange in a Subarctic Heath Ecosystem. Biogeochemistry, 2004, 70, 315-330.	1.7	48
44	Biotic controls on CO ₂ and CH ₄ exchange in wetlands – a closed environment study. Biogeochemistry, 2003, 64, 337-354.	1.7	107
45	The effect of vascular plants on carbon turnover and methane emissions from a tundra wetland. Global Change Biology, 2003, 9, 1185-1192.	4.2	284
46	Laboratory Investigations of Methane Buildup in, and Release from, Shallow Peats. Geophysical Monograph Series, 0, , 205-218.	0.1	4