Mikhail A Mastepanov

List of Publications by Year
in descending order

47	4,103	186265	206112
papers	citations	28 h-index	48 g-index

61	61	61	5194
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Non-methane volatile organic compound flux from a subarctic mire in Northern Sweden. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 226.	1.6	33
2	Tundra permafrost thaw causes significant shifts in energy partitioning. Tellus, Series B: Chemical and Physical Meteorology, 2022, 68, 30467.	1.6	15
3	The ABCflux database: Arcticâ€“boreal CO₂ flux observations and ancillary information aggregated to monthly time steps across terrestrial ecosystems. Earth System Science Data, 2022, 14, 179-208.	9.9	22
4	Toward UAV-based methane emission mapping of Arctic terrestrial ecosystems. Science of the Total Environment, 2022, 819, 153161.	8.0	9
5	Earlier snowmelt may lead to late season declines in plant productivity and carbon sequestration in Arctic tundra ecosystems. Scientific Reports, 2022, 12, 3986.	3.3	16
6	Multiple Ecosystem Effects of Extreme Weather Events in the Arctic. Ecosystems, 2021, 24, 122-136.	3.4	29
7	Methane in Zackenberg Valley, NE Greenland: multidecadal growing season fluxes of a high-Arctic tundra. Biogeosciences, 2021, 18, 6093-6114.	3.3	5
8	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. Scientific Data, 2020, 7, 225.	5.3	646
9	Multi-year data-model evaluation reveals the importance of nutrient availability over climate in arctic ecosystem C dynamics. Environmental Research Letters, 2020, 15, 094007.	5.2	22
10	A new dataset of soil carbon and nitrogen stocks and profiles from an instrumented Greenlandic fen designed to evaluate land-surface models. Earth System Science Data, 2020, 12, 2365-2380.	9.9	1
11	Ecosystem carbon response of an Arctic peatland to simulated permafrost thaw. Global Change Biology, 2019, 25, 1746-1764.	9.5	52
12	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
13	Increased nitrous oxide emissions from Arctic peatlands after permafrost thaw. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6238-6243.	7.1	119
14	Toward a statistical description of methane emissions from arctic wetlands. Ambio, 2017, 46, 70-80.	5.5	19
15	Spatial variability of CO₂ uptake in polygonal tundra: assessing low-frequency disturbances in eddy covariance flux estimates. Biogeosciences, 2017, 14, 3157-3169.	3.3	25
16	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
17	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
18	Snowpack fluxes of methane and carbon dioxide from high Arctic tundra. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2886-2900.	3.0	26

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19	Methane emission bursts from permafrost environments during autumn freezeâ€in: New insights from groundâ€penetrating radar. Geophysical Research Letters, 2015, 42, 6732-6738.	4.0	30
20	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
21	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
22	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
23	Revisiting factors controlling methane emissions from high-Arctic tundra. Biogeosciences, 2013, 10, 5139-5158.	3.3	103
24	High-resolution satellite data reveal an increase in peak growing season gross primary production in a high-Arctic wet tundra ecosystem 1992â€“2008. International Journal of Applied Earth Observation and Geoinformation, 2012, 18, 407-416.	2.8	31
25	Monitoring the Multi-Year Carbon Balance of a Subarctic Palsa Mire with Micrometeorological Techniques. Ambio, 2012, 41, 207-217.	5.5	60
26	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
27	Presence of Eriophorum scheuchzeri enhances substrate availability and methane emission in an Arctic wetland. Soil Biology and Biochemistry, 2012, 45, 61-70.	8.8	116
28	Quantification of C uptake in subarctic birch forest after setback by an extreme insect outbreak. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	42
29	BVOC ecosystem flux measurements at a high latitude wetland site. Atmospheric Chemistry and Physics, 2010, 10, 1617-1634.	4.9	62
30	Annual carbon gas budget for a subarctic peatland, Northern Sweden. Biogeosciences, 2010, 7, 95-108.	3.3	118
31	Annual cycle of methane emission from a subarctic peatland. Journal of Geophysical Research, 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. Biogeosciences, 2009, 6, 2135-2144.	3.3	68
33	Large tundra methane burst during onset of freezing. Nature, 2008, 456, 628-630.	27.8	283
34	Bimembrane diffusion probe for continuous recording of dissolved and entrapped bubble gas concentrations in peat. Soil Biology and Biochemistry, 2008, 40, 2992-3003.	8.8	9
35	Total hydrocarbon flux dynamics at a subarctic mire in northern Sweden. Journal of Geophysical Research, 2008, 113, .	3.3	41
36	Correction for Johnson et al. , Ancient bacteria show evidence of DNA repair. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10631-10631.	7.1	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.	3.4	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.	7.1	249
39	Membrane probe array: Technique development and observation of CO2 and CH4 diurnal oscillations in peat profile. Soil Biology and Biochemistry, 2007, 39, 1712-1723.	8.8	22
40	Correction for Johnson et al., Ancient bacteria show evidence of DNA repair. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20635-20635.	7.1	4
41	Decadal vegetation changes in a northern peatland, greenhouse gas fluxes and net radiative forcing. Global Change Biology, 2006, 12, 2352-2369.	9.5	214
42	Microbial activity in soils frozen to below â˜'39Â°C. Soil Biology and Biochemistry, 2006, 38, 785-794.	8.8	202
43	Species-specific Effects of Vascular Plants on Carbon Turnover and Methane Emissions from Wetlands. Biogeochemistry, 2005, 75, 65-82.	3.5	282
44	Moisture Effects on Temperature Sensitivity of CO2 Exchange in a Subarctic Heath Ecosystem. Biogeochemistry, 2004, 70, 315-330.	3.5	48
45	Biotic controls on CO2 and CH4 exchange in wetlands â€“ a closed environment study. Biogeochemistry, 2003, 64, 337-354.	3.5	107
46	The effect of vascular plants on carbon turnover and methane emissions from a tundra wetland. Global Change Biology, 2003, 9, 1185-1192.	9.5	284
47	Laboratory Investigations of Methane Buildup in, and Release from, Shallow Peats. Geophysical Monograph Series, 0, , 205-218.	0.1	4