## **Christian Knoblauch**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Sources of CO2 Produced in Freshly Thawed Pleistocene-Age Yedoma Permafrost. Frontiers in Earth Science, 2022, 9, .	0.8	5
2	Development of permafrost-affected peatlands in the southern limit of the European Russian cryolithozone and their vulnerability to future warming. Science of the Total Environment, 2022, 828, 154350.	3.9	4
3	Microbiome assembly in thawing permafrost and its feedbacks to climate. Global Change Biology, 2022, 28, 5007-5026.	4.2	34
4	Dissolved organic matter characterization in soils and streams in a small coastal low-Arctic catchment. Biogeosciences, 2022, 19, 3073-3097.	1.3	9
5	Impact of biochar on nutrient supply, crop yield and microbial respiration on sandy soils of northern Germany. European Journal of Soil Science, 2021, 72, 1885-1901.	1.8	19
6	Greenhouse gas production and lipid biomarker distribution in Yedoma and Alas thermokarst lake sediments in Eastern Siberia. Global Change Biology, 2021, 27, 2822-2839.	4.2	21
7	Permafrost Carbon and CO2 Pathways Differ at Contrasting Coastal Erosion Sites in the Canadian Arctic. Frontiers in Earth Science, 2021, 9, .	0.8	21
8	Effects of a longâ€ŧerm anoxic warming scenario on microbial community structure and functional potential of permafrostâ€affected soil. Permafrost and Periglacial Processes, 2021, 32, 641-656.	1.5	11
9	Carbon Dioxide and Methane Release Following Abrupt Thaw of Pleistocene Permafrost Deposits in Arctic Siberia. Journal of Geophysical Research G: Biogeosciences, 2021, 126, .	1.3	17
10	Thawing Yedoma permafrost is a neglected nitrous oxide source. Nature Communications, 2021, 12, 7107.	5.8	24
11	Methanogenic response to long-term permafrost thaw is determined by paleoenvironment. FEMS Microbiology Ecology, 2020, 96, .	1.3	23
12	Spatial Variability of Dissolved Organic Carbon, Solutes, and Suspended Sediment in Disturbed Low Arctic Coastal Watersheds. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005505.	1.3	10
13	Rapid CO <sub>2</sub> Release From Eroding Permafrost in Seawater. Geophysical Research Letters, 2019, 46, 11244-11252.	1.5	54
14	Partitioning net ecosystem exchange of CO <sub>2</sub> on the pedon scale in the Lena River Delta, Siberia. Biogeosciences, 2019, 16, 1543-1562.	1.3	15
15	Influence of Anthropogenic Activities on Metals in Arctic Permafrost: A Characterization of Benchmark Soils on the Yamal and Gydan Peninsulas in Russia. Archives of Environmental Contamination and Toxicology, 2019, 76, 540-553.	2.1	22
16	Gas production from dredged sediment. Waste Management, 2019, 85, 82-89.	3.7	7
17	Anaerobic methanotrophic communities thrive in deep submarine permafrost. Scientific Reports, 2018, 8, 1291.	1.6	58
18	Methane production as key to the greenhouse gas budget of thawing permafrost. Nature Climate Change, 2018, 8, 309-312.	8.1	194

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19	Markers of Soil Organic Matter Transformation in Permafrost Peat Mounds of Northeastern Europe. Eurasian Soil Science, 2018, 51, 42-53.	0.5	8
20	Summer rainfall dissolved organic carbon, solute, and sediment fluxes in a small Arctic coastal catchment on Herschel Island (Yukon Territory, Canada). Arctic Science, 2018, 4, 750-780.	0.9	20
21	Long-term deglacial permafrost carbon dynamics in MPI-ESM. Climate of the Past, 2018, 14, 2011-2036.	1.3	4
22	Greenhouse gas production in degrading ice-rich permafrost deposits in northeastern Siberia. Biogeosciences, 2018, 15, 5423-5436.	1.3	14
23	Ecosystem carbon dynamics differ between tundra shrub types in the western Canadian Arctic. Environmental Research Letters, 2018, 13, 084014.	2.2	12
24	Transformation of terrestrial organic matter along thermokarst-affected permafrost coasts in the Arctic. Science of the Total Environment, 2017, 581-582, 434-447.	3.9	45
25	Regulation of soil organic matter decomposition in permafrost-affected Siberian tundra soils - Impact of oxygen availability, freezing and thawing, temperature, and labile organic matter. Soil Biology and Biochemistry, 2017, 110, 34-43.	4.2	104
26	Deep Yedoma permafrost: A synthesis of depositional characteristics and carbon vulnerability. Earth-Science Reviews, 2017, 172, 75-86.	4.0	236
27	Process-based modelling of the methane balance in periglacial landscapes (JSBACH-methane). Geoscientific Model Development, 2017, 10, 333-358.	1.3	16
28	Potential carbon emissions dominated by carbon dioxide from thawed permafrost soils. Nature Climate Change, 2016, 6, 950-953.	8.1	288
29	Regulation of methane production, oxidation, and emission by vascular plants and bryophytes in ponds of the northeast Siberian polygonal tundra. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 2525-2541.	1.3	60
30	Methane oxidation following submarine permafrost degradation: Measurements from a central Laptev Sea shelf borehole. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 965-978.	1.3	55
31	Circumpolar assessment of permafrost C quality and its vulnerability over time using longâ€ŧerm incubation data. Global Change Biology, 2014, 20, 641-652.	4.2	231
32	Predicting longâ€ŧerm carbon mineralization and trace gas production from thawing permafrost of <scp>N</scp> ortheast <scp>S</scp> iberia. Global Change Biology, 2013, 19, 1160-1172.	4.2	161
33	Improved quantification of microbial CH <sub>4</sub> oxidation efficiency in arctic wetland soils using carbon isotope fractionation. Biogeosciences, 2013, 10, 2539-2552.	1.3	49
34	Methane oxidation associated with submerged brown mosses reduces methane emissions from Siberian polygonal tundra. Journal of Ecology, 2011, 99, 914-922.	1.9	91
35	Degradability of black carbon and its impact on trace gas fluxes and carbon turnover in paddy soils. Soil Biology and Biochemistry, 2011, 43, 1768-1778.	4.2	190
36	Effects and fate of biochar from rice residues in rice-based systems. Field Crops Research, 2011, 121, 430-440.	2.3	287

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37	Regional, seasonal and interspecific variation in 15N and 13C in sympatric mouse lemurs. Die Naturwissenschaften, 2011, 98, 909-917.	0.6	20
38	Methanogenic community composition and anaerobic carbon turnover in submarine permafrost sediments of the Siberian Laptev Sea. Environmental Microbiology, 2009, 11, 657-668.	1.8	48
39	Black Carbon (Biochar) in Rice-Based Systems: Characteristics and Opportunities. , 2009, , 445-463.		9
40	Methane turnover and temperature response of methane-oxidizing bacteria in permafrost-affected soils of northeast Siberia. Soil Biology and Biochemistry, 2008, 40, 3004-3013.	4.2	64
41	Desulfovibrio frigidus sp. nov. and Desulfovibrio ferrireducens sp. nov., psychrotolerant bacteria isolated from Arctic fjord sediments (Svalbard) with the ability to reduce Fe(III). International Journal of Systematic and Evolutionary Microbiology, 2006, 56, 681-685.	0.8	47
42	Desulfotomaculum arcticum sp. nov., a novel spore-forming, moderately thermophilic, sulfate-reducing bacterium isolated from a permanently cold fjord sediment of Svalbard. International Journal of Systematic and Evolutionary Microbiology, 2006, 56, 687-690.	0.8	42
43	Controls on stable sulfur isotope fractionation during bacterial sulfate reduction in Arctic sediments. Geochimica Et Cosmochimica Acta, 2001, 65, 763-776.	1.6	106
44	Community Structure, Cellular rRNA Content, and Activity of Sulfate-Reducing Bacteria in Marine Arctic Sediments. Applied and Environmental Microbiology, 2000, 66, 3592-3602.	1.4	259
45	Psychrophilic sulfate-reducing bacteria isolated from permanently cold Arctic marine sediments: description of Desulfofrigus oceanense gen. nov., sp. nov., Desulfofrigus fragile sp. nov., Desulfofaba gelida gen. nov., sp. nov., Desulfotalea psychrophila gen. nov., sp. nov. and Desulfotalea arctica sp. nov International Journal of Systematic and Evolutionary Microbiology. 1999. 49. 1631-1643.	0.8	221
46	Effect of temperature on sulphate reduction, growth rate and growth yield in five psychrophilic sulphate-reducing bacteria from Arctic sediments. Environmental Microbiology, 1999, 1, 457-467.	1.8	100
47	Phylogenetic Affiliation and Quantification of Psychrophilic Sulfate-Reducing Isolates in Marine Arctic Sediments. Applied and Environmental Microbiology, 1999, 65, 3976-3981.	1.4	85
48	Community Size and Metabolic Rates of Psychrophilic Sulfate-Reducing Bacteria in Arctic Marine Sediments. Applied and Environmental Microbiology, 1999, 65, 4230-4233.	1.4	121