

# Kimberly P Wickland

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/5458661/kimberly-p-wickland-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53  
papers

4,627  
citations

30  
h-index

63  
g-index

63  
ext. papers

5,296  
ext. citations

5.8  
avg, IF

5.24  
L-index

#	Paper	IF	Citations
53	A decrease in discharge-normalized DOC export by the Yukon River during summer through autumn. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	295
52	Vulnerability of high-latitude soil organic carbon in North America to disturbance. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		292
51	A synthesis of methane emissions from 71 northern, temperate, and subtropical wetlands. <i>Global Change Biology</i> , <b>2014</b> , 20, 2183-97	11.4	291
50	Reviews and syntheses: Effects of permafrost thaw on Arctic aquatic ecosystems. <i>Biogeosciences</i> , <b>2015</b> , 12, 7129-7167	4.6	261
49	Dissolved Organic Carbon in Alaskan Boreal Forest: Sources, Chemical Characteristics, and Biodegradability. <i>Ecosystems</i> , <b>2007</b> , 10, 1323-1340	3.9	249
48	Seasonal and spatial variability in dissolved organic matter quantity and composition from the Yukon River basin, Alaska. <i>Global Biogeochemical Cycles</i> , <b>2008</b> , 22, n/a-n/a	5.9	231
47	Expert assessment of vulnerability of permafrost carbon to climate change. <i>Climatic Change</i> , <b>2013</b> , 119, 359-374	4.5	212
46	Potential carbon emissions dominated by carbon dioxide from thawed permafrost soils. <i>Nature Climate Change</i> , <b>2016</b> , 6, 950-953	21.4	211
45	Carbon export and cycling by the Yukon, Tanana, and Porcupine rivers, Alaska, 2001-2005. <i>Water Resources Research</i> , <b>2007</b> , 43,	5.4	170
44	Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. <i>Environmental Research Letters</i> , <b>2016</b> , 11, 034014	6.2	165
43	Permafrost Stores a Globally Significant Amount of Mercury. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 14623-14715	11.58	158
42	Ancient low-molecular-weight organic acids in permafrost fuel rapid carbon dioxide production upon thaw. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 13946-51	11.5	155
41	Biodegradability of dissolved organic carbon in the Yukon River and its tributaries: Seasonality and importance of inorganic nitrogen. <i>Global Biogeochemical Cycles</i> , <b>2012</b> , 26, n/a-n/a	5.9	149
40	The Effects of Permafrost Thaw on Soil Hydrologic, Thermal, and Carbon Dynamics in an Alaskan Peatland. <i>Ecosystems</i> , <b>2012</b> , 15, 213-229	3.9	143
39	Carbon dioxide partial pressure and <sup>13</sup> C content of north temperate and boreal lakes at spring ice melt. <i>Limnology and Oceanography</i> , <b>2001</b> , 46, 941-945	4.8	133
38	Molecular investigations into a globally important carbon pool: permafrost-protected carbon in Alaskan soils. <i>Global Change Biology</i> , <b>2010</b> , 16, 2543	11.4	129
37	Winter fluxes of CO <sub>2</sub> and CH <sub>4</sub> from subalpine soils in Rocky Mountain National Park, Colorado. <i>Global Biogeochemical Cycles</i> , <b>1998</b> , 12, 607-620	5.9	118

36	Biodegradability of dissolved organic carbon in permafrost soils and aquatic systems: a meta-analysis. <i>Biogeosciences</i> , <b>2015</b> , 12, 6915-6930	4.6	112
35	Impact of fire on active layer and permafrost microbial communities and metagenomes in an upland Alaskan boreal forest. <i>ISME Journal</i> , <b>2014</b> , 8, 1904-19	11.9	106
34	Emissions of carbon dioxide and methane from a headwater stream network of interior Alaska. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2013</b> , 118, 482-494	3.7	105
33	Effects of a clear-cut harvest on soil respiration in a jack pine - lichen woodland. <i>Canadian Journal of Forest Research</i> , <b>1998</b> , 28, 534-539	1.9	102
32	Decomposition of soil organic matter from boreal black spruce forest: environmental and chemical controls. <i>Biogeochemistry</i> , <b>2008</b> , 87, 29-47	3.8	91
31	Effects of permafrost melting on CO <sub>2</sub> and CH <sub>4</sub> exchange of a poorly drained black spruce lowland. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111, n/a-n/a		79
30	Carbon gas exchange at a southern Rocky Mountain wetland, 1996-1998. <i>Global Biogeochemical Cycles</i> , <b>2001</b> , 15, 321-335	5.9	78
29	Boreal soil carbon dynamics under a changing climate: A model inversion approach. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		57
28	Dissolved organic carbon and nitrogen release from boreal Holocene permafrost and seasonally frozen soils of Alaska. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 065011	6.2	49
27	Runoff sources and flow paths in a partially burned, upland boreal catchment underlain by permafrost. <i>Water Resources Research</i> , <b>2014</b> , 50, 8141-8158	5.4	42
26	Negligible cycling of terrestrial carbon in many lakes of the arid circumpolar landscape. <i>Nature Geoscience</i> , <b>2019</b> , 12, 180-185	18.3	40
25	Effect of permafrost thaw on CO <sub>2</sub> and CH <sub>4</sub> exchange in a western Alaska peatland chronosequence. <i>Environmental Research Letters</i> , <b>2014</b> , 9, 085004	6.2	39
24	Methane flux in subalpine wetland and unsaturated soils in the southern Rocky Mountains. <i>Global Biogeochemical Cycles</i> , <b>1999</b> , 13, 101-113	5.9	35
23	Methane emissions from oceans, coasts, and freshwater habitats: New perspectives and feedbacks on climate. <i>Limnology and Oceanography</i> , <b>2016</b> , 61, S3-S12	4.8	29
22	Surface-air mercury fluxes across Western North America: A synthesis of spatial trends and controlling variables. <i>Science of the Total Environment</i> , <b>2016</b> , 568, 651-665	10.2	29
21	Dissolved Organic Carbon Turnover in Permafrost-Influenced Watersheds of Interior Alaska: Molecular Insights and the Priming Effect. <i>Frontiers in Earth Science</i> , <b>2019</b> , 7,	3.5	29
20	Potential impacts of mercury released from thawing permafrost. <i>Nature Communications</i> , <b>2020</b> , 11, 4650	7.4	28
19	Soil respiration and photosynthetic uptake of carbon dioxide by ground-cover plants in four ages of jack pine forest. <i>Canadian Journal of Forest Research</i> , <b>2001</b> , 31, 1540-1550	1.9	25

18	The role of soil drainage class in carbon dioxide exchange and decomposition in boreal black spruce ( <i>Picea mariana</i> ) forest stands. <i>Canadian Journal of Forest Research</i> , <b>2010</b> , 40, 2123-2134	1.9	22
17	Variation in Soil Carbon Dioxide Efflux at Two Spatial Scales in a Topographically Complex Boreal Forest. <i>Arctic, Antarctic, and Alpine Research</i> , <b>2012</b> , 44, 457-468	1.8	20
16	Modeling the Production, Decomposition, and Transport of Dissolved Organic Carbon in Boreal Soils. <i>Soil Science</i> , <b>2010</b> , 175, 223-232	0.9	19
15	Ice Wedge Degradation and Stabilization Impact Water Budgets and Nutrient Cycling in Arctic Trough Ponds. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2018</b> , 123, 2604-2616	3.7	18
14	The implications of microbial and substrate limitation for the fates of carbon in different organic soil horizon types of boreal forest ecosystems: a mechanistically based model analysis. <i>Biogeosciences</i> , <b>2014</b> , 11, 4477-4491	4.6	18
13	Reviews and Syntheses: Effects of permafrost thaw on arctic aquatic ecosystems		17
12	Hydrologic connectivity determines dissolved organic matter biogeochemistry in northern high-latitude lakes. <i>Limnology and Oceanography</i> , <b>2020</b> , 65, 1764-1780	4.8	13
11	Biological and land use controls on the isotopic composition of aquatic carbon in the Upper Mississippi River Basin. <i>Global Biogeochemical Cycles</i> , <b>2017</b> , 31, 1271-1288	5.9	12
10	Stream Dissolved Organic Matter in Permafrost Regions Shows Surprising Compositional Similarities but Negative Priming and Nutrient Effects. <i>Global Biogeochemical Cycles</i> , <b>2021</b> , 35, e2020GB006719	5.9	10
9	Satellite and airborne remote sensing of gross primary productivity in boreal Alaskan lakes. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 105001	6.2	9
8	Biodegradability of dissolved organic carbon in permafrost soils and waterways: a meta-analysis		7
7	Carbon and geochemical properties of cryosols on the North Slope of Alaska. <i>Cold Regions Science and Technology</i> , <b>2014</b> , 100, 59-67	3.8	6
6	Carbon Dioxide and Methane Flux in a Dynamic Arctic Tundra Landscape: Decadal-Scale Impacts of Ice Wedge Degradation and Stabilization. <i>Geophysical Research Letters</i> , <b>2020</b> , 47,	4.9	5
5	Wind Sheltering Impacts on Land-Atmosphere Fluxes Over Fens. <i>Frontiers in Environmental Science</i> , <b>2019</b> , 7,	4.8	4
4	The implications of microbial and substrate limitation for the fates of carbon in different organic soil horizon types: a mechanistically based model analysis		2
3	Lagged Wetland CH <sub>4</sub> Flux Response in a Historically Wet Year. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2021</b> , 126, e2021JG006458	3.7	2
2	Anthropogenic landcover impacts fluvial dissolved organic matter composition in the Upper Mississippi River Basin. <i>Biogeochemistry</i> , 1	3.8	1
1	Patterns and isotopic composition of greenhouse gases under ice in lakes of interior Alaska. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 105016	6.2	1

