

Kimberly P Wickland

List of Publications by Year in Descending Order

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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	Lagged Wetland CH ₄ Flux Response in a Historically Wet Year. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2021JG006458	3.7	2
52	Stream Dissolved Organic Matter in Permafrost Regions Shows Surprising Compositional Similarities but Negative Priming and Nutrient Effects. <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2020GB006719 ¹⁰	5.9	10
51	Hydrologic connectivity determines dissolved organic matter biogeochemistry in northern high-latitude lakes. <i>Limnology and Oceanography</i> , 2020 , 65, 1764-1780	4.8	13
50	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> , 2020 , 47,	4.9	5
49	Patterns and isotopic composition of greenhouse gases under ice in lakes of interior Alaska. <i>Environmental Research Letters</i> , 2020 , 15, 105016	6.2	1
48	Potential impacts of mercury released from thawing permafrost. <i>Nature Communications</i> , 2020 , 11, 46507.4	7.4	28
47	Satellite and airborne remote sensing of gross primary productivity in boreal Alaskan lakes. <i>Environmental Research Letters</i> , 2020 , 15, 105001	6.2	9
46	Wind Sheltering Impacts on Land-Atmosphere Fluxes Over Fens. <i>Frontiers in Environmental Science</i> , 2019 , 7,	4.8	4
45	Negligible cycling of terrestrial carbon in many lakes of the arid circumpolar landscape. <i>Nature Geoscience</i> , 2019 , 12, 180-185	18.3	40
44	Dissolved Organic Carbon Turnover in Permafrost-Influenced Watersheds of Interior Alaska: Molecular Insights and the Priming Effect. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	29
43	Permafrost Stores a Globally Significant Amount of Mercury. <i>Geophysical Research Letters</i> , 2018 , 45, 14623-14711.58	4.7	58
42	Ice Wedge Degradation and Stabilization Impact Water Budgets and Nutrient Cycling in Arctic Trough Ponds. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 2604-2616	3.7	18
41	Dissolved organic carbon and nitrogen release from boreal Holocene permafrost and seasonally frozen soils of Alaska. <i>Environmental Research Letters</i> , 2018 , 13, 065011	6.2	49
40	Biological and land use controls on the isotopic composition of aquatic carbon in the Upper Mississippi River Basin. <i>Global Biogeochemical Cycles</i> , 2017 , 31, 1271-1288	5.9	12
39	Methane emissions from oceans, coasts, and freshwater habitats: New perspectives and feedbacks on climate. <i>Limnology and Oceanography</i> , 2016 , 61, S3-S12	4.8	29
38	Potential carbon emissions dominated by carbon dioxide from thawed permafrost soils. <i>Nature Climate Change</i> , 2016 , 6, 950-953	21.4	211
37	Surface-air mercury fluxes across Western North America: A synthesis of spatial trends and controlling variables. <i>Science of the Total Environment</i> , 2016 , 568, 651-665	10.2	29

36	Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. <i>Environmental Research Letters</i> , 2016 , 11, 034014	6.2	165
35	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> , 2015 , 112, 13946-51	11.5	155
34	Reviews and syntheses: Effects of permafrost thaw on Arctic aquatic ecosystems. <i>Biogeosciences</i> , 2015 , 12, 7129-7167	4.6	261
33	Biodegradability of dissolved organic carbon in permafrost soils and aquatic systems: a meta-analysis. <i>Biogeosciences</i> , 2015 , 12, 6915-6930	4.6	112
32	A synthesis of methane emissions from 71 northern, temperate, and subtropical wetlands. <i>Global Change Biology</i> , 2014 , 20, 2183-97	11.4	291
31	Carbon and geochemical properties of cryosols on the North Slope of Alaska. <i>Cold Regions Science and Technology</i> , 2014 , 100, 59-67	3.8	6
30	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> , 2014 , 11, 4477-4491	4.6	18
29	Effect of permafrost thaw on CO ₂ and CH ₄ exchange in a western Alaska peatland chronosequence. <i>Environmental Research Letters</i> , 2014 , 9, 085004	6.2	39
28	Impact of fire on active layer and permafrost microbial communities and metagenomes in an upland Alaskan boreal forest. <i>ISME Journal</i> , 2014 , 8, 1904-19	11.9	106
27	Runoff sources and flow paths in a partially burned, upland boreal catchment underlain by permafrost. <i>Water Resources Research</i> , 2014 , 50, 8141-8158	5.4	42
26	Expert assessment of vulnerability of permafrost carbon to climate change. <i>Climatic Change</i> , 2013 , 119, 359-374	4.5	212
25	Emissions of carbon dioxide and methane from a headwater stream network of interior Alaska. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 482-494	3.7	105
24	Variation in Soil Carbon Dioxide Efflux at Two Spatial Scales in a Topographically Complex Boreal Forest. <i>Arctic, Antarctic, and Alpine Research</i> , 2012 , 44, 457-468	1.8	20
23	Biodegradability of dissolved organic carbon in the Yukon River and its tributaries: Seasonality and importance of inorganic nitrogen. <i>Global Biogeochemical Cycles</i> , 2012 , 26, n/a-n/a	5.9	149
22	The Effects of Permafrost Thaw on Soil Hydrologic, Thermal, and Carbon Dynamics in an Alaskan Peatland. <i>Ecosystems</i> , 2012 , 15, 213-229	3.9	143
21	Vulnerability of high-latitude soil organic carbon in North America to disturbance. <i>Journal of Geophysical Research</i> , 2011 , 116,		292
20	Molecular investigations into a globally important carbon pool: permafrost-protected carbon in Alaskan soils. <i>Global Change Biology</i> , 2010 , 16, 2543	11.4	129
19	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> , 2010 , 40, 2123-2134	1.9	22

18	Modeling the Production, Decomposition, and Transport of Dissolved Organic Carbon in Boreal Soils. <i>Soil Science</i> , 2010 , 175, 223-232	0.9	19
17	Boreal soil carbon dynamics under a changing climate: A model inversion approach. <i>Journal of Geophysical Research</i> , 2008 , 113,		57
16	Seasonal and spatial variability in dissolved organic matter quantity and composition from the Yukon River basin, Alaska. <i>Global Biogeochemical Cycles</i> , 2008 , 22, n/a-n/a	5.9	231
15	Decomposition of soil organic matter from boreal black spruce forest: environmental and chemical controls. <i>Biogeochemistry</i> , 2008 , 87, 29-47	3.8	91
14	Carbon export and cycling by the Yukon, Tanana, and Porcupine rivers, Alaska, 2001-2005. <i>Water Resources Research</i> , 2007 , 43,	5.4	170
13	Dissolved Organic Carbon in Alaskan Boreal Forest: Sources, Chemical Characteristics, and Biodegradability. <i>Ecosystems</i> , 2007 , 10, 1323-1340	3.9	249
12	Effects of permafrost melting on CO ₂ and CH ₄ exchange of a poorly drained black spruce lowland. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		79
11	A decrease in discharge-normalized DOC export by the Yukon River during summer through autumn. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	295
10	Carbon dioxide partial pressure and ¹³ C content of north temperate and boreal lakes at spring ice melt. <i>Limnology and Oceanography</i> , 2001 , 46, 941-945	4.8	133
9	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> , 2001 , 31, 1540-1550	1.9	25
8	Carbon gas exchange at a southern Rocky Mountain wetland, 1996-1998. <i>Global Biogeochemical Cycles</i> , 2001 , 15, 321-335	5.9	78
7	Methane flux in subalpine wetland and unsaturated soils in the southern Rocky Mountains. <i>Global Biogeochemical Cycles</i> , 1999 , 13, 101-113	5.9	35
6	Winter fluxes of CO ₂ and CH ₄ from subalpine soils in Rocky Mountain National Park, Colorado. <i>Global Biogeochemical Cycles</i> , 1998 , 12, 607-620	5.9	118
5	Effects of a clear-cut harvest on soil respiration in a jack pine - lichen woodland. <i>Canadian Journal of Forest Research</i> , 1998 , 28, 534-539	1.9	102
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	Reviews and Syntheses: Effects of permafrost thaw on arctic aquatic ecosystems		17
2	Biodegradability of dissolved organic carbon in permafrost soils and waterways: a meta-analysis		7
1	Anthropogenic landcover impacts fluvial dissolved organic matter composition in the Upper Mississippi River Basin. <i>Biogeochemistry</i> , 1	3.8	1

