

Joshua C Koch

List of Publications by Citations

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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.

36
papers

651
citations

16
h-index

25
g-index

40
ext. papers

810
ext. citations

4.9
avg, IF

4.21
L-index

#	Paper	IF	Citations
36	Multidecadal increases in the Yukon River Basin of chemical fluxes as indicators of changing flowpaths, groundwater, and permafrost. <i>Geophysical Research Letters</i> , 2016 , 43, 12,120-12,130	4.9	68
35	Hydrologic controls on the transport and cycling of carbon and nitrogen in a boreal catchment underlain by continuous permafrost. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 698-712	3.7	57
34	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
33	Rapid runoff via shallow throughflow and deeper preferential flow in a boreal catchment underlain by frozen silt (Alaska, USA). <i>Hydrogeology Journal</i> , 2013 , 21, 93-106	3.1	48
32	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
31	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
30	Life in the Main Channel: Long-Term Hydrologic Control of Microbial Mat Abundance in McMurdo Dry Valley Streams, Antarctica. <i>Ecosystems</i> , 2015 , 18, 310-327	3.9	33
29	Morphology-Dependent Water Budgets and Nutrient Fluxes in Arctic Thaw Ponds. <i>Permafrost and Periglacial Processes</i> , 2014 , 25, 79-93	4.2	26
28	Simulating unsteady flow, anabranching, and hyporheic dynamics in a glacial meltwater stream using a coupled surface water routing and groundwater flow model. <i>Water Resources Research</i> , 2011 , 47,	5.4	25
27	Landscape Effects of Wildfire on Permafrost Distribution in Interior Alaska Derived from Remote Sensing. <i>Remote Sensing</i> , 2016 , 8, 654	5	24
26	Forecasting Wildlife Response to Rapid Warming in the Alaskan Arctic. <i>BioScience</i> , 2015 , 65, 718-728	5.7	23
25	Surface water connectivity drives richness and composition of Arctic lake fish assemblages. <i>Freshwater Biology</i> , 2016 , 61, 1090-1104	3.1	22
24	Soil Physical, Hydraulic, and Thermal Properties in Interior Alaska, USA: Implications for Hydrologic Response to Thawing Permafrost Conditions. <i>Water Resources Research</i> , 2019 , 55, 4427-4447	5.4	20
23	Pronounced chemical response of Subarctic lakes to climate-driven losses in surface area. <i>Global Change Biology</i> , 2015 , 21, 1140-52	11.4	18
22	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
21	Permafrost Promotes Shallow Groundwater Flow and Warmer Headwater Streams. <i>Water Resources Research</i> , 2021 , 57, e2020WR027463	5.4	16
20	Review: Groundwater in Alaska (USA). <i>Hydrogeology Journal</i> , 2013 , 21, 25-39	3.1	14

19	Effect of unsteady flow on nitrate loss in an oligotrophic, glacial meltwater stream. <i>Journal of Geophysical Research</i> , 2010 , 115,		14
18	Permafrost Hydrology Drives the Assimilation of Old Carbon by Stream Food Webs in the Arctic. <i>Ecosystems</i> , 2020 , 23, 435-453	3.9	13
17	Tracer-based evidence of heterogeneity in subsurface flow and storage within a boreal hillslope. <i>Hydrological Processes</i> , 2017 , 31, 2453-2463	3.3	11
16	Lateral and subsurface flows impact arctic coastal plain lake water budgets. <i>Hydrological Processes</i> , 2016 , 30, 3918-3931	3.3	11
15	Patterns and controls of mercury accumulation in sediments from three thermokarst lakes on the Arctic Coastal Plain of Alaska. <i>Aquatic Sciences</i> , 2018 , 80, 1	2.5	11
14	Fish growth rates and lake sulphate explain variation in mercury levels in ninespine stickleback (<i>Pungitius pungitius</i>) on the Arctic Coastal Plain of Alaska. <i>Science of the Total Environment</i> , 2020 , 743, 140564	10.2	10
13	Potential for real-time understanding of coupled hydrologic and biogeochemical processes in stream ecosystems: Future integration of telemetered data with process models for glacial meltwater streams. <i>Water Resources Research</i> , 2015 , 51, 6725-6738	5.4	6
12	Nutrient Dynamics in Partially Drained Arctic Thaw Lakes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 440-452	3.7	5
11	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
10	Thermokarst and thaw-related landscape dynamics -- an annotated bibliography with an emphasis on potential effects on habitat and wildlife. <i>US Geological Survey Open-File Report</i> ,		5
9	Thermal and hydrological observations near Twelvemile Lake in discontinuous permafrost, Yukon Flats, interior Alaska, September 2010-August 2011. <i>US Geological Survey Open-File Report</i> ,		4
8	Field-based method for assessing duration of infectivity for influenza A viruses in the environment. <i>Journal of Virological Methods</i> , 2020 , 277, 113818	2.6	4
7	Multi-year, spatially extensive, watershed-scale synoptic stream chemistry and water quality conditions for six permafrost-underlain Arctic watersheds. <i>Earth System Science Data</i> , 2022 , 14, 95-116	10.5	3
6	Comparative nest survival of three sympatric loon species breeding in the Arctic. <i>Journal of Avian Biology</i> , 2018 , 49, e01671	1.9	1
5	Seasonality of Solute Flux and Water Source Chemistry in a Coastal Glacierized Watershed Undergoing Rapid Change: Wolverine Glacier Watershed, Alaska. <i>Water Resources Research</i> , 2021 , 57, e2020WR028725	5.4	1
4	Nitrogen biogeochemistry in a boreal headwater stream network in interior Alaska. <i>Science of the Total Environment</i> , 2021 , 764, 142906	10.2	1
3	Sensitivity of headwater streamflow to thawing permafrost and vegetation change in a warming Arctic. <i>Environmental Research Letters</i> , 2022 , 17, 044074	6.2	1
2	Storm-Scale and Seasonal Dynamics of Carbon Export From a Nested Subarctic Watershed Underlain by Permafrost. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2021JG006268	3.7	0

- 1 Arctic insect emergence timing and composition differs across thaw ponds of varying morphology. *Arctic, Antarctic, and Alpine Research*, **2021**, 53, 110-126 1.8 ○