Tyler J Kohler

List of Publications by Year
in descending order

50 papers	1,274 citations	304743 22 h-index	414414 32 g-index
56 all docs	56 docs citations	56 times ranked	1581 citing authors

#	Article	IF	Citations
1	Widespread intraspecific organismal stoichiometry among populations of the Trinidadian guppy. Functional Ecology, 2012, 26, 666-676.	3.6	83
2	Greenland melt drives continuous export of methane from the ice-sheet bed. Nature, 2019, 565, 73-77.	27.8	72
3	The importance of terrestrial subsidies in stream food webs varies along a stream size gradient. Oikos, 2016, 125, 674-685.	2.7	60
4	Glacial ecosystems are essential to understanding biodiversity responses to glacier retreat. Nature Ecology and Evolution, 2020, 4, 686-687.	7.8	60
5	Flow, nutrients, and light availability influence Neotropical epilithon biomass and stoichiometry. Freshwater Science, 2012, 31, 1019-1034.	1.8	55
6	Life in the Main Channel: Long-Term Hydrologic Control of Microbial Mat Abundance in McMurdo Dry Valley Streams, Antarctica. Ecosystems, 2015, 18, 310-327.	3.4	49
7	Environmental and Organismal Predictors of Intraspecific Variation in the Stoichiometry of a Neotropical Freshwater Fish. PLoS ONE, 2012, 7, e32713.	2.5	47
8	Global radiation in a rare biosphere soil diatom. Nature Communications, 2020, 11, 2382.	12.8	43
9	Patterns of bacterial biodiversity in the glacial meltwater streams of the McMurdo Dry Valleys, Antarctica. FEMS Microbiology Ecology, 2016, 92, fiw148.	2.7	41
10	Meltwater export of prokaryotic cells from the Greenland ice sheet. Environmental Microbiology, 2017, 19, 524-534.	3.8	40
11	Enhanced trace element mobilization by Earthâ€™s ice sheets. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31648-31659.	7.1	40
12	Freshwater diatom biogeography and the genus Luticola: an extreme case of endemism in Antarctica. Polar Biology, 2017, 40, 1185-1196.	1.2	39
13	Extreme streams: flow intermittency as a control on diatom communities in meltwater streams in the McMurdo Dry Valleys, Antarctica‹sup›1‹/sup›This article is derived from a special session entitled â€œAÂNew Hydrology: Inflow Effects on Ecosystem Form and Functioningâ€•that took place at the February 2011 ASLO Aquatic Sciences conference in SanÂJuan, Puerto Rico.. Canadian Journal of Fisheries and Aquatic Sciences, 2012, 69, 1405-1419.	1.4	36
14	Nutrient treatments alter microbial mat colonization in two glacial meltwater streams from the McMurdo Dry Valleys, Antarctica. FEMS Microbiology Ecology, 2016, 92, fiw049.	2.7	32
15	Carbon dating reveals a seasonal progression in the source of particulate organic carbon exported from the Greenland Ice Sheet. Geophysical Research Letters, 2017, 44, 6209-6217.	4.0	32
16	Investigation of subglacial weathering under the Greenland Ice Sheet using silicon isotopes. Geochimica Et Cosmochimica Acta, 2019, 247, 191-206.	3.9	32
17	Large subglacial source of mercury from the southwestern margin of the Greenland Ice Sheet. Nature Geoscience, 2021, 14, 496-502.	12.9	32
18	Evidence for dispersal and habitat controls on pond diatom communities from the McMurdo Sound Region of Antarctica. Polar Biology, 2016, 39, 2441-2456.	1.2	31

#	Article	IF	Citations
19	The genus Luticola D.G.Mann (Bacillariophyta) from the McMurdo Sound Region, Antarctica, with the description of four new species. Phytotaxa, 2015, 208, 103.	0.3	30
20	The silicon cycle impacted by past ice sheets. Nature Communications, 2018, 9, 3210.	12.8	29
21	Nutrient loading and grazing by the minnow Phoxinus erythrogaster shift periphyton abundance and stoichiometry in mesocosms. Freshwater Biology, 2011, 56, 1133-1146.	2.4	28
22	Microdiversity characterizes prevalent phylogenetic clades in the glacier-fed stream microbiome. ISME Journal, 2022, 16, 666-675.	9.8	28
23	Glacier Outflow Dissolved Organic Matter as a Window Into Seasonally Changing Carbon Sources: Leverett Glacier, Greenland. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005161.	3.0	26
24	Genomic and metabolic adaptations of biofilms to ecological windows of opportunity in glacier-fed streams. Nature Communications, 2022, 13, 2168.	12.8	25
25	Catch and release: Hyporheic retention and mineralization of Nâ€fixing Nostoc sustains downstream microbial mat biomass in two polar desert streams. Limnology and Oceanography Letters, 2018, 3, 357-364.	3.9	24
26	Patterns in Microbial Assemblages Exported From the Meltwater of Arctic and Sub-Arctic Glaciers. Frontiers in Microbiology, 2020, 11, 669.	3.5	24
27	Population variation in the trophic niche of the Trinidadian guppy from different predation regimes. Scientific Reports, 2017, 7, 5770.	3.3	20
28	Silicon isotopes in Arctic and sub-Arctic glacial meltwaters: the role of subglacial weathering in the silicon cycle. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190098.	2.1	20
29	The microbiome of cryospheric ecosystems. Nature Communications, 2022, 13, .	12.8	20
30	Patterns and Drivers of Extracellular Enzyme Activity in New Zealand Glacier-Fed Streams. Frontiers in Microbiology, 2020, 11, 591465.	3.5	18
31	Glacier shrinkage will accelerate downstream decomposition of organic matter and alters microbiome structure and function. Global Change Biology, 2022, 28, 3846-3859.	9.5	15
32	Life histories have a history: effects of past and present conditions on adult somatic growth rates in wild Trinidadian guppies. Journal of Animal Ecology, 2012, 81, 818-826.	2.8	14
33	Habitat controls on limno-terrestrial diatom communities of Clearwater Mesa, James Ross Island, Maritime Antarctica. Polar Biology, 2019, 42, 1595-1613.	1.2	14
34	The Biogeochemical Legacy of Arctic Subglacial Sediments Exposed by Glacier Retreat. Global Biogeochemical Cycles, 2022, 36, .	4.9	14
35	Prokaryotic assemblages in suspended and subglacial sediments within a glacierized catchment on Qeqertarsuaq (Disko Island), west Greenland. FEMS Microbiology Ecology, 2018, 94, .	2.7	12
36	Benthic Biofilms in Glacier-Fed Streams from Scandinavia to the Himalayas Host Distinct Bacterial Communities Compared with the Streamwater. Applied and Environmental Microbiology, 2022, 88, .	3.1	12

#	Article	IF	Citations
37	Kuannersuit Glacier revisited: Constraining ice dynamics, landform formations and glaciomorphological changes in the early quiescent phase following the 1995â€“98 surge event. Geomorphology, 2019, 330, 89-99.	2.6	11
38	Lacustrine systems of Clearwater Mesa (James Ross Island, north-eastern Antarctic Peninsula): geomorphological setting and limnological characterization. Antarctic Science, 2019, 31, 169-188.	0.9	10
39	Recovery of Antarctic stream epilithon from simulated scouring events. Antarctic Science, 2015, 27, 341-354.	0.9	9
40	Comparison of Diatom Paleo-Assemblages with Adjacent Limno-Terrestrial Communities on Vega Island, Antarctic Peninsula. Water (Switzerland), 2020, 12, 1340.	2.7	7
41	Centimeter-scale mapping of phototrophic biofilms in glacial forefields using visible band ratios and UAV imagery. International Journal of Remote Sensing, 2022, 43, 4723-4757.	2.9	7
42	Dissolved major and trace geochemical dynamics in Antarctic lacustrine systems. Chemosphere, 2020, 240, 124938.	8.2	6
43	Sabbea gen. nov., a new diatom genus (Bacillariophyta) from continental Antarctica . Phytotaxa, 2019, 418, 42-56.	0.3	4
44	Diatoms in cryoconite holes and adjacent proglacial freshwater sediments, NordenskiÃ¶ld glacier (Spitsbergen, High Arctic). Czech Polar Reports, 2015, 5, 112-133.	0.6	4
45	Diatom communities differ among Antarctic moss and lichen vegetation types. Antarctic Science, 2021, 33, 118-132.	0.9	3
46	Diversity, ecology, and community structure of the terrestrial diatom flora from Ulu Peninsula (James Ross Island, NE Antarctic Peninsula). Polar Biology, 2022, 45, 873-894.	1.2	3
47	A re-investigation of lake sediment diatoms from the Vestfold Hills, Antarctica, using an updated, fine-grained taxonomy. Diatom Research, 2020, 35, 231-254.	1.2	2
48	Evaluating Alternative Metacommunity Hypotheses for Diatoms in the McMurdo Dry Valleys Using Simulations and Remote Sensing Data. Frontiers in Ecology and Evolution, 2020, 8, .	2.2	1
49	Data set of dissolved major and trace elements from the lacustrine systems of Clearwater Mesa, Antarctica. Data in Brief, 2020, 30, 105438.	1.0	1
50	From the Heroic Age to today: What diatoms from Shackleton's Nimrod expedition can tell us about the ecological trajectory of Antarctic ponds. Limnology and Oceanography Letters, 0, , .	3.9	1