

# Tyler J Kohler

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Microdiversity characterizes prevalent phylogenetic clades in the glacier-fed stream microbiome. <i>ISME Journal</i> , 2022, 16, 666-675.	9.8	28
2	The Biogeochemical Legacy of Arctic Subglacial Sediments Exposed by Glacier Retreat. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.9	14
3	Glacier shrinkage will accelerate downstream decomposition of organic matter and alters microbiome structure and function. <i>Global Change Biology</i> , 2022, 28, 3846-3859.	9.5	15
4	Diversity, ecology, and community structure of the terrestrial diatom flora from Ulu Peninsula (James Ross Island, NE Antarctic Peninsula). <i>Polar Biology</i> , 2022, 45, 873-894.	1.2	3
5	Genomic and metabolic adaptations of biofilms to ecological windows of opportunity in glacier-fed streams. <i>Nature Communications</i> , 2022, 13, 2168.	12.8	25
6	The microbiome of cryospheric ecosystems. <i>Nature Communications</i> , 2022, 13, .	12.8	20
7	Centimeter-scale mapping of phototrophic biofilms in glacial forefields using visible band ratios and UAV imagery. <i>International Journal of Remote Sensing</i> , 2022, 43, 4723-4757.	2.9	7
8	Benthic Biofilms in Glacier-Fed Streams from Scandinavia to the Himalayas Host Distinct Bacterial Communities Compared with the Streamwater. <i>Applied and Environmental Microbiology</i> , 2022, 88, .	3.1	12
9	Large subglacial source of mercury from the southwestern margin of the Greenland Ice Sheet. <i>Nature Geoscience</i> , 2021, 14, 496-502.	12.9	32
10	Diatom communities differ among Antarctic moss and lichen vegetation types. <i>Antarctic Science</i> , 2021, 33, 118-132.	0.9	3
11	Dissolved major and trace geochemical dynamics in Antarctic lacustrine systems. <i>Chemosphere</i> , 2020, 240, 124938.	8.2	6
12	Patterns and Drivers of Extracellular Enzyme Activity in New Zealand Glacier-Fed Streams. <i>Frontiers in Microbiology</i> , 2020, 11, 591465.	3.5	18
13	Enhanced trace element mobilization by Earth's ice sheets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31648-31659.	7.1	40
14	Evaluating Alternative Metacommunity Hypotheses for Diatoms in the McMurdo Dry Valleys Using Simulations and Remote Sensing Data. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	1
15	A re-investigation of lake sediment diatoms from the Vestfold Hills, Antarctica, using an updated, fine-grained taxonomy. <i>Diatom Research</i> , 2020, 35, 231-254.	1.2	2
16	Global radiation in a rare biosphere soil diatom. <i>Nature Communications</i> , 2020, 11, 2382.	12.8	43
17	Comparison of Diatom Paleo-Assemblages with Adjacent Limno-Terrestrial Communities on Vega Island, Antarctic Peninsula. <i>Water (Switzerland)</i> , 2020, 12, 1340.	2.7	7
18	Glacier Outflow Dissolved Organic Matter as a Window Into Seasonally Changing Carbon Sources: Leverett Glacier, Greenland. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005161.	3.0	26

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19	Glacial ecosystems are essential to understanding biodiversity responses to glacier retreat. <i>Nature Ecology and Evolution</i> , 2020, 4, 686-687.	7.8	60
20	Patterns in Microbial Assemblages Exported From the Meltwater of Arctic and Sub-Arctic Glaciers. <i>Frontiers in Microbiology</i> , 2020, 11, 669.	3.5	24
21	Data set of dissolved major and trace elements from the lacustrine systems of Clearwater Mesa, Antarctica. <i>Data in Brief</i> , 2020, 30, 105438.	1.0	1
22	Habitat controls on limno-terrestrial diatom communities of Clearwater Mesa, James Ross Island, Maritime Antarctica. <i>Polar Biology</i> , 2019, 42, 1595-1613.	1.2	14
23	Silicon isotopes in Arctic and sub-Arctic glacial meltwaters: the role of subglacial weathering in the silicon cycle. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20190098.	2.1	20
24	<p><strong><em>Sabbea</em></strong> gen. nov., a new diatom genus (Bacillariophyta) from continental Antarctica</p></strong></p>. <i>Phytotaxa</i> , 2019, 418, 42-56.	0.3	4
25	Kuannersuit Glacier revisited: Constraining ice dynamics, landform formations and glaciomorphological changes in the early quiescent phase following the 1995-98 surge event. <i>Geomorphology</i> , 2019, 330, 89-99.	2.6	11
26	Lacustrine systems of Clearwater Mesa (James Ross Island, north-eastern Antarctic Peninsula): geomorphological setting and limnological characterization. <i>Antarctic Science</i> , 2019, 31, 169-188.	0.9	10
27	Greenland melt drives continuous export of methane from the ice-sheet bed. <i>Nature</i> , 2019, 565, 73-77.	27.8	72
28	Investigation of subglacial weathering under the Greenland Ice Sheet using silicon isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 247, 191-206.	3.9	32
29	Catch and release: Hyporheic retention and mineralization of N-fixing <i>Nostoc</i> sustains downstream microbial mat biomass in two polar desert streams. <i>Limnology and Oceanography Letters</i> , 2018, 3, 357-364.	3.9	24
30	Prokaryotic assemblages in suspended and subglacial sediments within a glacierized catchment on Qeqertarsuaq (Disko Island), west Greenland. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	2.7	12
31	The silicon cycle impacted by past ice sheets. <i>Nature Communications</i> , 2018, 9, 3210.	12.8	29
32	Carbon dating reveals a seasonal progression in the source of particulate organic carbon exported from the Greenland Ice Sheet. <i>Geophysical Research Letters</i> , 2017, 44, 6209-6217.	4.0	32
33	Freshwater diatom biogeography and the genus <i>Luticola</i> : an extreme case of endemism in Antarctica. <i>Polar Biology</i> , 2017, 40, 1185-1196.	1.2	39
34	Population variation in the trophic niche of the Trinidadian guppy from different predation regimes. <i>Scientific Reports</i> , 2017, 7, 5770.	3.3	20
35	Meltwater export of prokaryotic cells from the Greenland ice sheet. <i>Environmental Microbiology</i> , 2017, 19, 524-534.	3.8	40
36	Nutrient treatments alter microbial mat colonization in two glacial meltwater streams from the McMurdo Dry Valleys, Antarctica. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw049.	2.7	32

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37	Evidence for dispersal and habitat controls on pond diatom communities from the McMurdo Sound Region of Antarctica. <i>Polar Biology</i> , 2016, 39, 2441-2456.	1.2	31
38	Patterns of bacterial biodiversity in the glacial meltwater streams of the McMurdo Dry Valleys, Antarctica. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw148.	2.7	41
39	The importance of terrestrial subsidies in stream food webs varies along a stream size gradient. <i>Oikos</i> , 2016, 125, 674-685.	2.7	60
40	Recovery of Antarctic stream epilithon from simulated scouring events. <i>Antarctic Science</i> , 2015, 27, 341-354.	0.9	9
41	The genus <i>Luticola</i> D.G.Mann (Bacillariophyta) from the McMurdo Sound Region, Antarctica, with the description of four new species. <i>Phytotaxa</i> , 2015, 208, 103.	0.3	30
42	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.	3.4	49
43	Diatoms in cryoconite holes and adjacent proglacial freshwater sediments, Nordenskiöld glacier (Spitsbergen, High Arctic). <i>Czech Polar Reports</i> , 2015, 5, 112-133.	0.6	4
44	Flow, nutrients, and light availability influence Neotropical epilithon biomass and stoichiometry. <i>Freshwater Science</i> , 2012, 31, 1019-1034.	1.8	55
45	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 "New Hydrology: Inflow Effects on Ecosystem Form and Functioning" that took place at the February 2011 ASLO Aquatic Sciences conference in San Juan, Puerto Rico.. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2012, 69, 1405-1419.	1.4	36
46	Widespread intraspecific organismal stoichiometry among populations of the Trinidadian guppy. <i>Functional Ecology</i> , 2012, 26, 666-676.	3.6	83
47	Life histories have a history: effects of past and present conditions on adult somatic growth rates in wild Trinidadian guppies. <i>Journal of Animal Ecology</i> , 2012, 81, 818-826.	2.8	14
48	Environmental and Organismal Predictors of Intraspecific Variation in the Stoichiometry of a Neotropical Freshwater Fish. <i>PLoS ONE</i> , 2012, 7, e32713.	2.5	47
49	Nutrient loading and grazing by the minnow <i>Phoxinus erythrogaster</i> shift periphyton abundance and stoichiometry in mesocosms. <i>Freshwater Biology</i> , 2011, 56, 1133-1146.	2.4	28
50	From the Heroic Age to today: What diatoms from Shackleton's Nimrod expedition can tell us about the ecological trajectory of Antarctic ponds. <i>Limnology and Oceanography Letters</i> , 0, , .	3.9	1