

James McClelland

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2212455/james-mcclelland-publications-by-citations.pdf>

Version: 2024-04-28

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.

100
papers

10,018
citations

49
h-index

100
g-index

100
ext. papers

11,248
ext. citations

5
avg, IF

6.02
L-index

#	Paper	IF	Citations
100	Increasing river discharge to the Arctic Ocean. <i>Science</i> , 2002 , 298, 2171-3	33.3	1137
99	Macroalgal blooms in shallow estuaries: Controls and ecophysiological and ecosystem consequences. <i>Limnology and Oceanography</i> , 1997 , 42, 1105-1118	4.8	859
98	Impacts of permafrost degradation on arctic river biogeochemistry. <i>Hydrological Processes</i> , 2009 , 23, 169-182	3.3	434
97	Nitrogen-stable isotope signatures in estuarine food webs: A record of increasing urbanization in coastal watersheds. <i>Limnology and Oceanography</i> , 1997 , 42, 930-937	4.8	425
96	Seasonal and Annual Fluxes of Nutrients and Organic Matter from Large Rivers to the Arctic Ocean and Surrounding Seas. <i>Estuaries and Coasts</i> , 2012 , 35, 369-382	2.8	412
95	TROPHIC RELATIONSHIPS AND THE NITROGEN ISOTOPIC COMPOSITION OF AMINO ACIDS IN PLANKTON. <i>Ecology</i> , 2002 , 83, 2173-2180	4.6	379
94	Flux and age of dissolved organic carbon exported to the Arctic Ocean: A carbon isotopic study of the five largest arctic rivers. <i>Global Biogeochemical Cycles</i> , 2007 , 21, n/a-n/a	5.9	357
93	Linking nitrogen in estuarine producers to land-derived sources. <i>Limnology and Oceanography</i> , 1998 , 43, 577-585	4.8	345
92	Trajectory shifts in the Arctic and subarctic freshwater cycle. <i>Science</i> , 2006 , 313, 1061-6	33.3	287
91	Measuring $^{15}\text{N}/^{14}\text{N}$ in marine, estuarine and fresh waters: An adaptation of the ammonia diffusion method for samples with low ammonium concentrations. <i>Marine Chemistry</i> , 1998 , 60, 235-243	3.7	285
90	A pan-arctic evaluation of changes in river discharge during the latter half of the 20th century. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	261
89	Lability of DOC transported by Alaskan rivers to the Arctic Ocean. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	246
88	Increasing river discharge in the Eurasian Arctic: Consideration of dams, permafrost thaw, and fires as potential agents of change. <i>Journal of Geophysical Research</i> , 2004 , 109,		216
87	Flow-weighted values of runoff tracers (^{18}O , DOC, Ba, alkalinity) from the six largest Arctic rivers. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	168
86	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
85	Dissolved organic matter sources in large Arctic rivers. <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 94, 217-237	3.3	162
84	The arctic freshwater system: Changes and impacts. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		160

83	Changes in food web structure under the influence of increased anthropogenic nitrogen inputs to estuaries. <i>Marine Ecology - Progress Series</i> , 1998 , 168, 259-271	2.6	159
82	A circumpolar perspective on fluvial sediment flux to the Arctic ocean. <i>Global Biogeochemical Cycles</i> , 2002 , 16, 45-1-45-14	5.9	156
81	The Arctic Ocean Estuary. <i>Estuaries and Coasts</i> , 2012 , 35, 353-368	2.8	147
80	Trophic relationships among Southern Ocean copepods and krill: Some uses and limitations of a stable isotope approach. <i>Limnology and Oceanography</i> , 2003 , 48, 277-289	4.8	139
79	Nitrogen loading from watersheds to estuaries: Verification of the Waquoit Bay Nitrogen Loading Model. <i>Biogeochemistry</i> , 2000 , 49, 277-293	3.8	130
78	Relative importance of grazing and nutrient controls of macroalgal biomass in three temperate shallow estuaries. <i>Estuaries and Coasts</i> , 1998 , 21, 347		119
77	Circumpolar synchrony in big river bacterioplankton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 21208-12	11.5	107
76	Linkages among runoff, dissolved organic carbon, and the stable oxygen isotope composition of seawater and other water mass indicators in the Arctic Ocean. <i>Journal of Geophysical Research</i> , 2005 , 110, n/a-n/a		105
75	An analysis of the carbon balance of the Arctic Basin from 1997 to 2006. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2010 , 62, 455-474	3.3	104
74	Particulate organic carbon and nitrogen export from major Arctic rivers. <i>Global Biogeochemical Cycles</i> , 2016 , 30, 629-643	5.9	102
73	Relating low $\delta^{15}\text{N}$ values of zooplankton to N_2 -fixation in the tropical North Atlantic: insights provided by stable isotope ratios of amino acids. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2003 , 50, 849-861	2.5	100
72	A land-to-ocean perspective on the magnitude, source and implication of DIC flux from major Arctic rivers to the Arctic Ocean. <i>Global Biogeochemical Cycles</i> , 2012 , 26, n/a-n/a	5.9	99
71	Recent changes in nitrate and dissolved organic carbon export from the upper Kuparuk River, North Slope, Alaska. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		99
70	Impacts of climate warming and permafrost thaw on the riverine transport of nitrogen and phosphorus to the Kara Sea. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		93
69	Multi-decadal increases in dissolved organic carbon and alkalinity flux from the Mackenzie drainage basin to the Arctic Ocean. <i>Environmental Research Letters</i> , 2016 , 11, 054015	6.2	90
68	Trophic-level interpretation based on $\delta^{15}\text{N}$ values: implications of tissue-specific fractionation and amino acid composition. <i>Marine Ecology - Progress Series</i> , 2004 , 266, 43-58	2.6	89
67	Effects of Watershed Land use on Nitrogen Concentrations and $\delta^{15}\text{N}$ Nitrogen in Groundwater. <i>Biogeochemistry</i> , 2006 , 77, 199-215	3.8	81
66	River export of nutrients and organic matter from the North Slope of Alaska to the Beaufort Sea. <i>Water Resources Research</i> , 2014 , 50, 1823-1839	5.4	80

65	Insights and issues with simulating terrestrial DOC loading of Arctic river networks 2013 , 23, 1817-36		74
64	Landscape-level controls on dissolved carbon flux from diverse catchments of the circumboreal. <i>Global Biogeochemical Cycles</i> , 2012 , 26, n/a-n/a	5.9	69
63	Pan-Arctic Trends in Terrestrial Dissolved Organic Matter from Optical Measurements. <i>Frontiers in Earth Science</i> , 2016 , 4,	3.5	69
62	Sulfur isotopes in rivers: Insights into global weathering budgets, pyrite oxidation, and the modern sulfur cycle. <i>Earth and Planetary Science Letters</i> , 2018 , 496, 168-177	5.3	68
61	Development of a Pan-Arctic Database for River Chemistry. <i>Eos</i> , 2008 , 89, 217-218	1.5	63
60	Rivers across the Siberian Arctic unearth the patterns of carbon release from thawing permafrost. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 10280-10285	11.5	62
59	The Processing and Impact of Dissolved Riverine Nitrogen in the Arctic Ocean. <i>Estuaries and Coasts</i> , 2012 , 35, 401-415	2.8	61
58	Utilizing colored dissolved organic matter to derive dissolved black carbon export by arctic rivers. <i>Frontiers in Earth Science</i> , 2015 , 3,	3.5	58
57	Quantifying CDOM and DOC in major Arctic rivers during ice-free conditions using Landsat TM and ETM+ data. <i>Remote Sensing of Environment</i> , 2018 , 209, 395-409	13.2	57
56	Chemical Indicators of Anthropogenic Nitrogen-Loading in Four Pacific Estuaries. <i>Pacific Science</i> , 2003 , 57, 77-101	0.9	56
55	Macrophytes as indicators of land-derived wastewater: Application of a $\delta^{15}N$ method in aquatic systems. <i>Water Resources Research</i> , 2005 , 41,	5.4	54
54	Sediment din fluxes and preferential recycling of benthic microalgal nitrogen in a shallow macrotidal estuary. <i>Marine Ecology - Progress Series</i> , 2003 , 257, 25-36	2.6	52
53	Seasonal and hydrologic drivers of dissolved organic matter and nutrients in the upper Kuparuk River, Alaskan Arctic. <i>Biogeochemistry</i> , 2011 , 103, 109-124	3.8	49
52	Modeling transport and fate of riverine dissolved organic carbon in the Arctic Ocean. <i>Global Biogeochemical Cycles</i> , 2009 , 23, n/a-n/a	5.9	49
51	Stable isotope tracers: Enriching our perspectives and questions on sources, fates, rates, and pathways of major elements in aquatic systems. <i>Limnology and Oceanography</i> , 2019 , 64, 950-981	4.8	41
50	Macrophyte Abundance in Waquoit Bay: Effects of Land-Derived Nitrogen Loads on Seasonal and Multi-Year Biomass Patterns. <i>Estuaries and Coasts</i> , 2008 , 31, 532-541	2.8	38
49	Use of isotopic signatures to assess the food web in a tropical shallow marine ecosystem of Southeastern Brazil. <i>Aquatic Ecology</i> , 2006 , 40, 381-390	1.9	38
48	Assimilation and partitioning of prey nitrogen within two anthozoans and their endosymbiotic zooxanthellae. <i>Marine Ecology - Progress Series</i> , 2003 , 262, 125-136	2.6	38

47	Watershed Export Events and Ecosystem Responses in the Mission Aransas National Estuarine Research Reserve, South Texas. <i>Estuaries and Coasts</i> , 2012 , 35, 1468-1485	2.8	37
46	A new river discharge and river temperature climatology data set for the pan-Arctic region. <i>Ocean Modelling</i> , 2015 , 88, 1-15	3	36
45	Landscape matters: Predicting the biogeochemical effects of permafrost thaw on aquatic networks with a state factor approach. <i>Permafrost and Periglacial Processes</i> , 2020 , 31, 358-370	4.2	36
44	Groundwater as a major source of dissolved organic matter to Arctic coastal waters. <i>Nature Communications</i> , 2020 , 11, 1479	17.4	36
43	Late season mobilization of trace metals in two small Alaskan arctic watersheds as a proxy for landscape scale permafrost active layer dynamics. <i>Chemical Geology</i> , 2014 , 381, 180-193	4.2	35
42	Tissue-specific isotope turnover and discrimination factors are affected by diet quality and lipid content in an omnivorous consumer. <i>Journal of Experimental Marine Biology and Ecology</i> , 2016 , 479, 35-45 ^{2.1}	4.5	34
41	Climate Change Impacts on the Hydrology and Biogeochemistry of Arctic Rivers1-26		33
40	Egg boons: central components of marine fatty acid food webs. <i>Ecology</i> , 2015 , 96, 362-72	4.6	32
39	Do high Arctic coastal food webs rely on a terrestrial carbon subsidy?. <i>Food Webs</i> , 2018 , 15, e00081	1.8	31
38	Mercury Export from Arctic Great Rivers. <i>Environmental Science & Technology</i> , 2020 , 54, 4140-4148	10.3	30
37	Spatial and temporal shifts in stable isotope values of the bottom-dwelling shrimp <i>Nauticaris marionis</i> at the sub-Antarctic archipelago. <i>Marine Biology</i> , 2004 , 144, 317-325	2.5	29
36	Isotopic signals (¹⁸ O, ² H, ³ H) of six major rivers draining the pan-Arctic watershed. <i>Global Biogeochemical Cycles</i> , 2012 , 26, n/a-n/a	5.9	26
35	Seasonal changes in quantity and composition of suspended particulate organic matter in lagoons of the Alaskan Beaufort Sea. <i>Marine Ecology - Progress Series</i> , 2015 , 527, 31-45	2.6	21
34	A model of the Arctic Ocean carbon cycle. <i>Journal of Geophysical Research</i> , 2011 , 116,		21
33	Watershed slope as a predictor of fluvial dissolved organic matter and nitrate concentrations across geographical space and catchment size in the Arctic. <i>Environmental Research Letters</i> , 2018 , 13, 104015	6.2	21
32	Coordination and Sustainability of River Observing Activities in the Arctic. <i>Arctic</i> , 2015 , 68, 59	2.1	20
31	Salinity and Temperature Regimes in Eastern Alaskan Beaufort Sea Lagoons in Relation to Source Water Contributions. <i>Estuaries and Coasts</i> , 2017 , 40, 50-62	2.8	19
30	Constraining seasonal active layer dynamics and chemical weathering reactions occurring in North Slope Alaskan watersheds with major ion and isotope (⁸⁴ Sr/ ⁸⁶ Sr, ⁴⁴ Ca/ ⁴⁰ Ca, and ⁴⁴ Ca/ ⁴² Ca) measurements. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 217, 399-420	5.5	17

29	Seasonality of dissolved nitrogen from spring melt to fall freezeup in Alaskan Arctic tundra and mountain streams. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 1718-1737	3.7	17
28	Seasonal and Geographic Variation in Dissolved Carbon Biogeochemistry of Rivers Draining to the Canadian Arctic Ocean and Hudson Bay. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 3371-3386	3.7	16
27	Strong Seasonality in Arctic Estuarine Microbial Food Webs. <i>Frontiers in Microbiology</i> , 2019 , 10, 2628	5.7	15
26	Freshwater Contributions and Nitrogen Sources in a South Texas Estuarine Ecosystem: a Time-Integrated Perspective from Stable Isotopic Ratios in the Eastern Oyster (<i>Crassostrea virginica</i>). <i>Estuaries and Coasts</i> , 2017 , 40, 1314-1324	2.8	14
25	Seasonal trophic linkages in Arctic marine invertebrates assessed via fatty acids and compound-specific stable isotopes. <i>Ecosphere</i> , 2016 , 7, e01429	3.1	14
24	Changes in N and C Stable Isotope Signatures of Particulate Organic Matter and Ribbed Mussels in Estuaries Subject to Different Nutrient Loading. <i>Biological Bulletin</i> , 1996 , 191, 329-330	1.5	12
23	Macrophyte Abundances in Waquoit Bay Estuaries Subject to Different Nutrient Loads and the Potential Role of Fringing Salt Marsh in Groundwater Nitrogen Interception. <i>Biological Bulletin</i> , 1995 , 189, 255-256	1.5	12
22	Role of Salt Marshes as Part of Coastal Landscapes 2002 , 23-36		11
21	A GIS Framework for Regional Modeling of Riverine Nitrogen Transport: Case Study, San Antonio and Guadalupe Basins. <i>Journal of the American Water Resources Association</i> , 2016 , 52, 1-15	2.1	11
20	Residence-time-based classification of surface water systems. <i>Water Resources Research</i> , 2017 , 53, 5567-5584	5.4	10
19	Invertebrate Response to Nutrient-Induced Changes in Macrophyte Assemblages in Waquoit Bay. <i>Biological Bulletin</i> , 1995 , 189, 241-242	1.5	9
18	Fatty-acid biomarkers and tissue-specific turnover: validation from a controlled feeding study in juvenile Atlantic croaker <i>Micropogonias undulatus</i> . <i>Journal of Fish Biology</i> , 2016 , 89, 2004-2023	1.9	9
17	Multidecadal climate-induced changes in Arctic tundra lake geochemistry and geomorphology. <i>Limnology and Oceanography</i> , 2019 , 64, S179	4.8	9
16	Comparing performance of five nutrient phytoplankton zooplankton (NPZ) models in coastal lagoons. <i>Ecological Modelling</i> , 2014 , 277, 13-26	3	8
15	The Effect of Nutrient Loading on the Growth Rate of Two Species of Bivalves, <i>Mercenaria mercenaria</i> and <i>Mya arenaria</i> , in Estuaries of Waquoit Bay, Massachusetts. <i>Biological Bulletin</i> , 1994 , 187, 281	1.5	7
14	Defining a Riverine Tidal Freshwater Zone and Its Spatiotemporal Dynamics. <i>Water Resources Research</i> , 2020 , 56, e2019WR026619	5.4	6
13	Absence of ice-bonded permafrost beneath an Arctic lagoon revealed by electrical geophysics. <i>Science Advances</i> , 2020 , 6,	14.3	6
12	Water quality modelling in the San Antonio River Basin driven by radar rainfall data. <i>Geomatics, Natural Hazards and Risk</i> , 2016 , 7, 953-970	3.6	5

11	Pan-Arctic Riverine Dissolved Organic Matter: Synchronous Molecular Stability, Shifting Sources and Subsidies. <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2020GB006871	5.9	5
10	Impact of nitrogen chemical form on the isotope signature and toxicity of a marine dinoflagellate. <i>Marine Ecology - Progress Series</i> , 2018 , 602, 63-76	2.6	4
9	The Growth and Consumption of Macroalgae in Estuaries: The Role of Invertebrate Grazers Along a Nutrient Gradient in Waquoit Bay, Massachusetts. <i>Biological Bulletin</i> , 1994 , 187, 279-280	1.5	4
8	Growth Rates of Ribbed Mussels in Six Estuaries Subject to Different Nutrient Loads. <i>Biological Bulletin</i> , 1996 , 191, 327-328	1.5	3
7	An expanded rating curve model to estimate river discharge during tidal influences across the progressive-mixed-standing wave systems. <i>PLoS ONE</i> , 2019 , 14, e0225758	3.7	2
6	Geochemistry of Coastal Permafrost and Erosion-Driven Organic Matter Fluxes to the Beaufort Sea Near Drew Point, Alaska. <i>Frontiers in Earth Science</i> , 2021 , 8,	3.5	1
5	Modeling Terrestrial Dissolved Organic Carbon Loading to Western Arctic Rivers. <i>Journal of Geophysical Research G: Biogeosciences</i> , e2021JG006420	3.7	1
4	Seasonality of dissolved organic matter in lagoon ecosystems along the Alaska Beaufort Sea coast. <i>Limnology and Oceanography</i> , 2021 , 66, 4299	4.8	0
3	Tidal Freshwater Zones as Hotspots for Biogeochemical Cycling: Sediment Organic Matter Decomposition in the Lower Reaches of Two South Texas Rivers. <i>Estuaries and Coasts</i> , 2021 , 44, 722-733 ^{2.8}		0
2	The Genomic Capabilities of Microbial Communities Track Seasonal Variation in Environmental Conditions of Arctic Lagoons. <i>Frontiers in Microbiology</i> , 2021 , 12, 601901	5.7	
1	Multidecadal declines in particulate mercury and sediment export from Russian rivers in the pan-Arctic basin.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2119857119	11.5	