

Gifford H Miller

List of Publications by Year in descending order

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126
papers

9,101
citations

41344

49
h-index

45317

90
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139
all docs

139
docs citations

139
times ranked

7750
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulating Arctic Climate Warmth and Icefield Retreat in the Last Interglaciation. <i>Science</i> , 2006, 311, 1751-1753.	12.6	832
2	Recent Warming Reverses Long-Term Arctic Cooling. <i>Science</i> , 2009, 325, 1236-1239.	12.6	585
3	Abrupt onset of the Little Ice Age triggered by volcanism and sustained by sea-ice/ocean feedbacks. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	544
4	Ecosystem Collapse in Pleistocene Australia and a Human Role in Megafaunal Extinction. <i>Science</i> , 2005, 309, 287-290.	12.6	392
5	History of sea ice in the Arctic. <i>Quaternary Science Reviews</i> , 2010, 29, 1757-1778.	3.0	343
6	Arctic amplification: can the past constrain the future?. <i>Quaternary Science Reviews</i> , 2010, 29, 1779-1790.	3.0	233
7	Continuous 150 k.y. monsoon record from Lake Eyre, Australia: Insolation-forcing implications and unexpected Holocene failure. <i>Geology</i> , 2004, 32, 885.	4.4	211
8	Low-latitude glacial cooling in the Southern Hemisphere from amino-acid racemization in emu eggshells. <i>Nature</i> , 1997, 385, 241-244.	27.8	187
9	Holocene climate change in Arctic Canada and Greenland. <i>Quaternary Science Reviews</i> , 2016, 147, 340-364.	3.0	173
10	65,000 Years of Vegetation Change in Central Australia and the Australian Summer Monsoon. <i>Science</i> , 1999, 284, 1150-1152.	12.6	162
11	Glacier fluctuations during the past 2000 years. <i>Quaternary Science Reviews</i> , 2016, 149, 61-90.	3.0	162
12	Holocene Environmental Variability in Southern Greenland Inferred from Lake Sediments. <i>Quaternary Research</i> , 2002, 58, 149-159.	1.7	150
13	Cosmogenic radionuclides from fiord landscapes support differential erosion by overriding ice sheets. <i>Bulletin of the Geological Society of America</i> , 2006, 118, 406-420.	3.3	147
14	Holocene and latest Pleistocene climate and glacier fluctuations in Iceland. <i>Quaternary Science Reviews</i> , 2009, 28, 2107-2118.	3.0	141
15	The last interglacial-glacial cycle, Clyde foreland, Baffin Island, N.W.T.: stratigraphy, biostratigraphy, and chronology. <i>Canadian Journal of Earth Sciences</i> , 1977, 14, 2824-2857.	1.3	138
16	Initiation of the Australian summer monsoon 14,000 years ago. <i>Quaternary International</i> , 2001, 83-85, 119-128.	1.5	131
17	Multiple Deglaciations of the Hudson Bay Lowlands, Canada, Since Deposition of the Missinaibi (Last-Interglacial?) Formation. <i>Quaternary Research</i> , 1983, 19, 18-37.	1.7	120
18	Centennial-scale climate change from decadal-paced explosive volcanism: a coupled sea ice-ocean mechanism. <i>Climate Dynamics</i> , 2011, 37, 2373-2387.	3.8	118

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19	Sensitivity of the Australian Monsoon to insolation and vegetation: Implications for human impact on continental moisture balance. <i>Geology</i> , 2005, 33, 65.	4.4	114
20	A 3000-year varved record of glacier activity and climate change from the proglacial lake Hvätvatn, Iceland. <i>Quaternary Science Reviews</i> , 2011, 30, 2715-2731.	3.0	107
21	Quantitative paleotemperature estimates from $\delta^{18}O$ of chironomid head capsules preserved in arctic lake sediments. <i>Journal of Paleolimnology</i> , 2004, 31, 267-274.	1.6	104
22	Late Quaternary Glacial and Climatic History of Northern Cumberland Peninsula, Baffin Island, N.W.T., Canada. <i>Quaternary Research</i> , 1973, 3, 561-583.	1.7	99
23	Stable isotopes in modern ostrich eggshell: a calibration for paleoenvironmental applications in semi-arid regions of southern Africa. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 2451-2461.	3.9	99
24	Holocene glaciation and climate evolution of Baffin Island, Arctic Canada. <i>Quaternary Science Reviews</i> , 2005, 24, 1703-1721.	3.0	92
25	Non-linear Holocene climate evolution in the North Atlantic: a high-resolution, multi-proxy record of glacier activity and environmental change from Hvätvatn, central Iceland. <i>Quaternary Science Reviews</i> , 2012, 39, 14-25.	3.0	89
26	Stratified interglacial lacustrine sediments from Baffin Island, Arctic Canada: chronology and paleoenvironmental implications. <i>Quaternary Science Reviews</i> , 1999, 18, 789-810.	3.0	86
27	Abrupt Holocene climate transitions in the northern North Atlantic region recorded by synchronized lacustrine records in Iceland. <i>Quaternary Science Reviews</i> , 2013, 70, 48-62.	3.0	86
28	Cosmogenic exposure dating in arctic glacial landscapes: implications for the glacial history of northeastern Baffin Island, Arctic Canada. <i>Canadian Journal of Earth Sciences</i> , 2005, 42, 67-84.	1.3	85
29	The Goldilocks dilemma: big ice, little ice, or "just-right" ice in the Eastern Canadian Arctic. <i>Quaternary Science Reviews</i> , 2002, 21, 33-48.	3.0	83
30	A multi-proxy lacustrine record of Holocene climate change on northeastern Baffin Island, Arctic Canada. <i>Quaternary Research</i> , 2006, 65, 431-442.	1.7	79
31	Holocene glacier and climate fluctuations on Franz Josef Land, Arctic Russia, 80°N. <i>Quaternary Science Reviews</i> , 1999, 18, 85-108.	3.0	78
32	Recent changes in a remote Arctic lake are unique within the past 200,000 years. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 18443-18446.	7.1	78
33	A 2000-year record of climate variations reconstructed from Haukadalsvatn, West Iceland. <i>Journal of Paleolimnology</i> , 2009, 41, 95-115.	1.6	78
34	Limited ice-sheet erosion and complex exposure histories derived from in situ cosmogenic ^{10}Be , ^{26}Al , and ^{14}C on Baffin Island, Arctic Canada. <i>Quaternary Geochronology</i> , 2006, 1, 74-85.	1.4	77
35	Preservation of Arctic landscapes overridden by cold-based ice sheets. <i>Quaternary Research</i> , 2006, 65, 156-163.	1.7	76
36	Unprecedented recent summer warmth in Arctic Canada. <i>Geophysical Research Letters</i> , 2013, 40, 5745-5751.	4.0	75

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37	Title is missing!. Journal of Paleolimnology, 2001, 25, 43-64.	1.6	70
38	Holocene variability of the North Atlantic Irminger current on the south- and northwest shelf of Iceland. Marine Micropaleontology, 2010, 77, 101-118.	1.2	68
39	Interglacial and Holocene temperature reconstructions based on midge remains in sediments of two lakes from Baffin Island, Nunavut, Arctic Canada. Palaeogeography, Palaeoclimatology, Palaeoecology, 2006, 236, 107-124.	2.3	66
40	Glaciation, erosion, and landscape evolution of Iceland. Journal of Geodynamics, 2007, 43, 170-186.	1.6	66
41	Quaternary History of Northern Cumberland Peninsula, Baffin Island, N. W. T., Canada: Part IV: Maps of the Present Glaciation Limits and Lowest Equilibrium Line Altitude for North and South Baffin Island. Arctic and Alpine Research, 1972, 4, 45.	1.3	65
42	Wisconsinan refugia and the glacial history of eastern Baffin Island, Arctic Canada: Coupled evidence from cosmogenic isotopes and lake sediments. Geology, 1998, 26, 835.	4.4	63
43	A millennial perspective on Arctic warming from ¹⁴ C in quartz and plants emerging from beneath ice caps. Geophysical Research Letters, 2008, 35, .	4.0	60
44	Geochronology of high latitude lake sediments. , 2004, , 19-52.		60
45	Late glacial ice margins and deglacial chronology for southeastern Baffin Island and Hudson Strait, eastern Canadian Arctic. Canadian Journal of Earth Sciences, 1992, 29, 1000-1017.	1.3	57
46	Paleoecological evidence for abrupt cold reversals during peak Holocene warmth on Baffin Island, Arctic Canada. Quaternary Research, 2009, 71, 142-149.	1.7	55
47	Latest Pleistocene and Holocene glaciation of Baffin Island, Arctic Canada: key patterns and chronologies. Quaternary Science Reviews, 2009, 28, 2075-2087.	3.0	55
48	Paleoecology of a >90,000-year lacustrine sequence from Fog Lake, Baffin Island, Arctic Canada. Quaternary Science Reviews, 2000, 19, 1677-1699.	3.0	53
49	Holocene temperature history of northern Iceland inferred from subfossil midges. Quaternary Science Reviews, 2007, 26, 3344-3358.	3.0	53
50	Holocene climate conditions and glacier variation in central Iceland from physical modelling and empirical evidence. Quaternary Science Reviews, 2008, 27, 797-813.	3.0	53
51	Proposed Extent of Late Wisconsin Laurentide Ice on Eastern Baffin Island. Geology, 1974, 2, 125.	4.4	52
52	Climatically controlled chemical and biological development in Arctic lakes. Journal of Geophysical Research, 2007, 112, .	3.3	52
53	Late Foxe glaciation of southern Baffin Island, N.W.T., Canada. Bulletin of the Geological Society of America, 1980, 91, 399.	3.3	51
54	Human predation contributed to the extinction of the Australian megafaunal bird <i>Genyornis newtoni</i> . Nature Communications, 2016, 7, 10496.	12.8	51

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55	Holocene cirque glacier activity in western Spitsbergen, Svalbard: sediment records from proglacial Linn�vatnet. <i>Holocene</i> , 2000, 10, 555-563.	1.7	48
56	Climate of the Little Ice Age and the past 2000 years in northeast Iceland inferred from chironomids and other lake sediment proxies. <i>Journal of Paleolimnology</i> , 2009, 41, 7-24.	1.6	48
57	Deglaciation of the Greenland and Laurentide ice sheets interrupted by glacier advance during abrupt coolings. <i>Quaternary Science Reviews</i> , 2020, 229, 106091.	3.0	47
58	Using in situ cosmogenic ¹⁰ Be, ¹⁴ C, and ²⁶ Al to decipher the history of polythermal ice sheets on Baffin Island, Arctic Canada. <i>Quaternary Geochronology</i> , 2014, 19, 4-13.	1.4	46
59	Revised fractional abundances and warm-season temperatures substantially improve brGDGT calibrations in lake sediments. <i>Biogeosciences</i> , 2021, 18, 3579-3603.	3.3	46
60	Rapidly receding Arctic Canada glaciers revealing landscapes continuously ice-covered for more than 40,000 years. <i>Nature Communications</i> , 2019, 10, 445.	12.8	44
61	The deglaciation of Clyde Inlet, northeastern Baffin Island, Arctic Canada. <i>Journal of Quaternary Science</i> , 2007, 22, 223-232.	2.1	43
62	Arctic shrub colonization lagged peak postglacial warmth: Molecular evidence in lake sediment from Arctic Canada. <i>Global Change Biology</i> , 2019, 25, 4244-4256.	9.5	43
63	Glacier fluctuation and inferred climatology of Langj�kull ice cap through the Little Ice Age. <i>Quaternary Science Reviews</i> , 2007, 26, 2337-2353.	3.0	42
64	Holocene tephra from Iceland and Alaska in SE Greenland Shelf Sediments. <i>Geological Society Special Publication</i> , 2014, 398, 157-193.	1.3	39
65	Local glaciation in West Greenland linked to North Atlantic Ocean circulation during the Holocene. <i>Geology</i> , 2017, 45, 195-198.	4.4	39
66	The Expanding Footprint of Rapid Arctic Change. <i>Earth's Future</i> , 2019, 7, 212-218.	6.3	38
67	The onset of neoglaciation in Iceland and the 4.2 ka event. <i>Climate of the Past</i> , 2019, 15, 25-40.	3.4	38
68	Vegetation and climate of the last interglacial on Baffin Island, Arctic Canada. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006, 236, 91-106.	2.3	37
69	Methodological basis for quantitative reconstruction of air temperature and sunshine from pollen assemblages in Arctic Canada and Greenland. <i>Quaternary Science Reviews</i> , 2008, 27, 1197-1216.	3.0	34
70	Synchronizing Holocene lacustrine and marine sediment records using paleomagnetic secular variation. <i>Geology</i> , 2013, 41, 535-538.	4.4	34
71	Disentangling the impacts of climate and human colonization on the flora and fauna of the Australian arid zone over the past 100 ka using stable isotopes in avian eggshell. <i>Quaternary Science Reviews</i> , 2016, 151, 27-57.	3.0	34
72	Glacial erosion at the fjord onset zone and implications for the organization of ice flow on Baffin Island, Arctic Canada. <i>Geomorphology</i> , 2008, 97, 126-134.	2.6	33

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73	Episodic Neoglacial snowline descent and glacier expansion on Svalbard reconstructed from the 14C ages of ice-entombed plants. <i>Quaternary Science Reviews</i> , 2017, 155, 67-78.	3.0	33
74	Aridity in the monsoon zone as indicated by desert dune formation in the Gregory Lakes basin, northwestern Australia. <i>Australian Journal of Earth Sciences</i> , 2012, 59, 469-478.	1.0	31
75	Do paleoclimate proxies agree? A test comparing 19 late Holocene climate and sea-ice reconstructions from Icelandic marine and lake sediments. <i>Journal of Quaternary Science</i> , 2011, 26, 645-656.	2.1	30
76	Provenance, stratigraphy and chronology of Holocene tephra from Vestfirir, Iceland. <i>Quaternary Geochronology</i> , 2018, 46, 59-76.	1.4	30
77	Chironomids record terrestrial temperature changes throughout Arctic interglacials of the past 200,000 yr. <i>Bulletin of the Geological Society of America</i> , 2011, 123, 1275-1287.	3.3	29
78	Lipid Biomarkers Quantify Holocene Summer Temperature and Ice Cap Sensitivity in Icelandic Lakes. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085728.	4.0	29
79	Ancient plant DNA reveals High Arctic greening during the Last Interglacial. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	29
80	Variations in Lichen Growth from Direct Measurements: Preliminary Curves for <i>Alectoria minuscula</i> from Eastern Baffin Island, N. W. T., Canada. <i>Arctic and Alpine Research</i> , 1973, 5, 333.	1.3	28
81	Interpreting exposure ages from ice-cored moraines: a Neoglacial case study on Baffin Island, Arctic Canada. <i>Journal of Quaternary Science</i> , 2017, 32, 1049-1062.	2.1	28
82	Sensitivity of Barnes Ice Cap, Baffin Island, Canada, to climate state and internal dynamics. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 1516-1539.	2.8	26
83	Numerical modelling of the Laurentide Ice Sheet in the Baffin Island region: the role of a Cumberland Sound ice stream. <i>Canadian Journal of Earth Sciences</i> , 1999, 36, 1315-1326.	1.3	25
84	Asynchronous Little Ice Age glacier fluctuations in Iceland and European Alps linked to shifts in subpolar North Atlantic circulation. <i>Earth and Planetary Science Letters</i> , 2013, 380, 52-59.	4.4	25
85	Early Holocene deglaciation of Drangajökull, Vestfirir, Iceland. <i>Quaternary Science Reviews</i> , 2016, 153, 192-198.	3.0	25
86	Early Holocene delevelling and deglaciation of the Cumberland Sound region, Baffin Island, Arctic Canada. <i>Bulletin of the Geological Society of America</i> , 2003, 115, 445-462.	3.3	24
87	The amplification of Arctic terrestrial surface temperatures by reduced sea-ice extent during the Pliocene. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 386, 59-67.	2.3	24
88	Hudson Bay was not deglaciated during MIS-3. <i>Quaternary Science Reviews</i> , 2019, 225, 105944.	3.0	24
89	Carbon isotopic evidence for increased aridity in northwestern Australia through the Quaternary. <i>Quaternary Science Reviews</i> , 2003, 22, 629-643.	3.0	23
90	Past rates of climate change in the Arctic. <i>Quaternary Science Reviews</i> , 2010, 29, 1716-1727.	3.0	23

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91	Episodic expansion of Drangajökull, Vestfirir, Iceland, over the last 3ka culminating in its maximum dimension during the Little Ice Age. <i>Quaternary Science Reviews</i> , 2016, 152, 118-131.	3.0	23
92	Punctuated Holocene climate of Vestfirir, Iceland, linked to internal/external variables and oceanographic conditions. <i>Quaternary Science Reviews</i> , 2018, 189, 31-42.	3.0	23
93	The projected demise of Barnes Ice Cap: Evidence of an unusually warm 21st century Arctic. <i>Geophysical Research Letters</i> , 2017, 44, 2810-2816.	4.0	22
94	Near-universal trends in brGDGT lipid distributions in nature. <i>Science Advances</i> , 2022, 8, eabm7625.	10.3	22
95	Substantial agreement on the timing and magnitude of Late Holocene ice cap expansion between East Greenland and the Eastern Canadian Arctic: a commentary on Lowell et al., 2013. <i>Quaternary Science Reviews</i> , 2013, 77, 239-245.	3.0	20
96	A high-resolution multi-proxy lake record of Holocene environmental change in southern Iceland. <i>Journal of Quaternary Science</i> , 2015, 30, 281-292.	2.1	20
97	Algal pigments in Arctic lake sediments record biogeochemical changes due to Holocene climate variability and anthropogenic global change. <i>Journal of Paleolimnology</i> , 2015, 54, 53-69.	1.6	20
98	Paleoecological reconstructions in southern Egypt based on the stable carbon and nitrogen isotopes in the organic fraction and stable carbon isotopes in individual amino acids of fossil ostrich eggshell. <i>Chemical Geology</i> , 1993, 107, 493-497.	3.3	19
99	Quaternary record of aridity and mean annual precipitation based on $\delta^{15}N$ in ratite and dromornithid eggshells from Lake Eyre, Australia. <i>Oecologia</i> , 2011, 167, 1151-1162.	2.0	18
100	Holocene glacier and climate variations in Vestfirir, Iceland, from the modeling of Drangajökull ice cap. <i>Quaternary Science Reviews</i> , 2018, 190, 39-56.	3.0	18
101	Holocene mountain glacier history in the Sukkertoppen Iskappe area, southwest Greenland. <i>Quaternary Science Reviews</i> , 2018, 197, 142-161.	3.0	18
102	Reorganization of ice sheet flow patterns in Arctic Canada and the mid-Pleistocene transition. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	16
103	Precise chronology of Little Ice Age expansion and repetitive surges of Langjökull, central Iceland. <i>Geology</i> , 2015, 43, 167-170.	4.4	16
104	A 2000-yr-long multi-proxy lacustrine record from eastern Baffin Island, Arctic Canada reveals first millennium AD cold period. <i>Quaternary Research</i> , 2011, 75, 491-500.	1.7	15
105	Asymmetric Cooling of the Atlantic and Pacific Arctic During the Past Two Millennia: A Dual Observation-Modeling Study. <i>Geophysical Research Letters</i> , 2018, 45, 12,497.	4.0	15
106	Sea Ice Control on Winter Subsurface Temperatures of the North Iceland Shelf During the Little Ice Age: A TEX ₈₆ Calibration Case Study. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1006-1021.	2.9	15
107	Holocene history of landscape instability in Iceland: Can we deconvolve the impacts of climate, volcanism and human activity?. <i>Quaternary Science Reviews</i> , 2020, 249, 106633.	3.0	15
108	Ice-sheet erosion and the stripping of Tertiary regolith from Baffin Island, eastern Canadian Arctic. <i>Quaternary Science Reviews</i> , 2013, 67, 176-189.	3.0	14

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109	Ancient proteins resolve controversy over the identity of <i>Genyornis</i> eggshell. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	14
110	Calibrating $\delta^{18}O$ in <i>Dromaius novaehollandiae</i> (emu) eggshell calcite as a paleo-aridity proxy for the Quaternary of Australia. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 193, 1-13.	3.9	13
111	Cryosphere response resolves conflicting evidence for the timing of peak Holocene warmth on Baffin Island, Arctic Canada. <i>Quaternary Science Reviews</i> , 2019, 216, 107-115.	3.0	13
112	Episodic Neoglacial expansion and rapid 20th century retreat of a small ice cap on Baffin Island, Arctic Canada, and modeled temperature change. <i>Climate of the Past</i> , 2017, 13, 1527-1537.	3.4	10
113	Wolfe Creek Crater: A continuous sediment fill in the Australian Arid Zone records changes in monsoon strength through the Late Quaternary. <i>Quaternary Science Reviews</i> , 2018, 199, 108-125.	3.0	10
114	Marker tephra in Haukadalavatn lake sediment: A key to the Holocene tephra stratigraphy of northwest Iceland. <i>Quaternary Science Reviews</i> , 2019, 219, 154-170.	3.0	10
115	Subglacially precipitated carbonates record geochemical interactions and pollen preservation at the base of the Laurentide Ice Sheet on central Baffin Island, eastern Canadian Arctic. <i>Quaternary Research</i> , 2014, 81, 94-105.	1.7	9
116	Glacier expansion on Baffin Island during early Holocene cold reversals. <i>Quaternary Science Reviews</i> , 2020, 241, 106419.	3.0	9
117	Abrupt changes in marine conditions, Sunneshine Fiord, eastern Baffin Island, NWT during the last deglacial transition: Younger Dryas and H-O events. <i>Geological Society Special Publication</i> , 1996, 111, 11-27.	1.3	8
118	Southern Baffin Island mean annual precipitation isotopes modulated by summer and autumn moisture source changes during the past 5800 years. <i>Journal of Quaternary Science</i> , 2022, 37, 967-978.	2.1	7
119	Last interglacial lake sediments preserved beneath Laurentide and Greenland Ice sheets provide insights into Arctic climate amplification and constrain 130%ka of ice sheet history. <i>Journal of Quaternary Science</i> , 2022, 37, 979-1005.	2.1	7
120	Reply to Carlson (2020) comment on "Deglaciation of the Greenland and Laurentide ice sheets interrupted by glacier advance during abrupt coolings". <i>Quaternary Science Reviews</i> , 2020, 240, 106329.	3.0	6
121	Recurrent outburst floods and explosive volcanism during the Younger Dryas "Early Holocene deglaciation in south Iceland: evidence from a lacustrine record. <i>Journal of Quaternary Science</i> , 2022, 37, 1006-1023.	2.1	6
122	Pulsebeat of early Holocene glaciation in Baffin Bay from high-resolution beryllium-10 moraine chronologies. <i>Quaternary Science Reviews</i> , 2021, 270, 107179.	3.0	6
123	The <i>Genyornis</i> egg: A commentary on Grellet-Tinner et al., 2016. <i>Quaternary Science Reviews</i> , 2017, 161, 123-127.	3.0	5
124	The age of Wolfe Creek meteorite crater (<i>Kandimalal</i>), Western Australia. <i>Meteoritics and Planetary Science</i> , 2019, 54, 2686-2697.	1.6	3
125	Modern Eastern Canadian Arctic Lake Water Isotopes Exhibit Latitudinal Patterns in Inflow Seasonality and Minimal Evaporative Enrichment. <i>Paleoceanography and Paleoclimatology</i> , 2022, 37, .	2.9	1
126	Control of Short-Stature Vegetation Type on Shallow Ground Temperatures in Permafrost Across the Eastern Canadian Arctic. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	1