

# Peter U Clark

## List of Publications by Year in descending order

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119  
papers

16,802  
citations

28274

55  
h-index

19190

118  
g-index

121  
all docs

121  
docs citations

121  
times ranked

14306  
citing authors

#	ARTICLE	IF	CITATIONS
1	Freshwater forcing of the Atlantic Meridional Overturning Circulation revisited. <i>Nature Climate Change</i> , 2022, 12, 449-454.	18.8	18
2	Rapid postglacial rebound amplifies global sea level rise following West Antarctic Ice Sheet collapse. <i>Science Advances</i> , 2021, 7, .	10.3	25
3	Assessing population exposure to coastal flooding due to sea level rise. <i>Nature Communications</i> , 2021, 12, 6900.	12.8	66
4	Antarctic ice dynamics amplified by Northern Hemisphere sea-level forcing. <i>Nature</i> , 2020, 587, 600-604.	27.8	32
5	Oceanic forcing of penultimate deglacial and last interglacial sea-level rise. <i>Nature</i> , 2020, 577, 660-664.	27.8	62
6	Attributing long-term sea-level rise to Paris Agreement emission pledges. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23487-23492.	7.1	35
7	<sup>10</sup> Be age constraints on latest Pleistocene and Holocene cirque glaciation across the western United States. <i>Npj Climate and Atmospheric Science</i> , 2019, 2, .	6.8	23
8	Controls on dripwater chemistry of Oregon Caves National Monument, northwestern United States. <i>Journal of Hydrology</i> , 2018, 557, 30-40.	5.4	0
9	Millennial-scale instability in the Geomagnetic Field Prior to the Matuyama-Brunhes Reversal. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 952-967.	2.5	14
10	Persistent millennial-scale glacier fluctuations in Ireland between 24 ka and 10 ka. <i>Geology</i> , 2018, 46, 151-154.	4.4	25
11	Climate evolution across the Mid-Brunhes Transition. <i>Climate of the Past</i> , 2018, 14, 2071-2087.	3.4	58
12	<sup>10</sup> Be dating of former glacial Lake Naskaupi (QuÃ©bec-Labrador) and timing of its discharges during the last deglaciation. <i>Quaternary Science Reviews</i> , 2018, 191, 31-40.	3.0	20
13	Sea-level commitment as a gauge for climate policy. <i>Nature Climate Change</i> , 2018, 8, 653-655.	18.8	21
14	Regional and global sea-surface temperatures during the last interglaciation. <i>Science</i> , 2017, 355, 276-279.	12.6	157
15	Centennial-scale Holocene climate variations amplified by Antarctic Ice Sheet discharge. <i>Nature</i> , 2017, 541, 72-76.	27.8	68
16	Asynchronous warming and <sup>18</sup> O evolution of deep Atlantic water masses during the last deglaciation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11075-11080.	7.1	38
17	Identification of the short-lived Santa Rosa geomagnetic excursion in lavas on Floreana Island (Galapagos) by <sup>40</sup> Ar/ <sup>39</sup> Ar geochronology. <i>Geology</i> , 2016, 44, 359-362.	4.4	27
18	Final deglaciation of the Scandinavian Ice Sheet and implications for the Holocene global sea-level budget. <i>Earth and Planetary Science Letters</i> , 2016, 448, 34-41.	4.4	66

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19	Comment on "The deglaciation over the Laurentide Fan: History of diatoms, IRD, ice and fresh water" Quaternary Science Reviews, 2016, 139, 164-166.	3.0	2
20	Last Glacial Maximum cirque glaciation in Ireland and implications for reconstructions of the Irish Ice Sheet. Quaternary Science Reviews, 2016, 141, 85-93.	3.0	19
21	Reply to comment received from J. C. Knight regarding "Last Glacial Maximum cirque glaciation in Ireland and implications for reconstructions of the Irish Ice Sheet" by Barth et al. (2016), Quaternary Science Reviews 141, 85-93. Quaternary Science Reviews, 2016, 150, 310-311.	3.0	0
22	Final Laurentide ice-sheet deglaciation and Holocene climate-sea level change. Quaternary Science Reviews, 2016, 152, 49-59.	3.0	110
23	Consequences of twenty-first-century policy for multi-millennial climate and sea-level change. Nature Climate Change, 2016, 6, 360-369.	18.8	442
24	Sea-level constraints on the amplitude and source distribution of Meltwater Pulse 1A. Nature Geoscience, 2016, 9, 130-134.	12.9	83
25	Cosmogenic dating of Late Pleistocene glaciation, southern tropical Andes, Peru. Journal of Quaternary Science, 2015, 30, 841-847.	2.1	19
26	Consistent evidence of increasing Antarctic accumulation with warming. Nature Climate Change, 2015, 5, 348-352.	18.8	130
27	Recent Progress in Understanding and Projecting Regional and Global Mean Sea Level Change. Current Climate Change Reports, 2015, 1, 224-246.	8.6	42
28	Regional and global forcing of glacier retreat during the last deglaciation. Nature Communications, 2015, 6, 8059.	12.8	71
29	Closing the sea level budget at the Last Glacial Maximum. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15861-15862.	7.1	52
30	Coherent changes of southeastern equatorial and northern African rainfall during the last deglaciation. Science, 2014, 346, 1223-1227.	12.6	172
31	<sup>10</sup> Be surface exposure ages on the late-Pleistocene and Holocene history of Linn�breen on Svalbard. Quaternary Science Reviews, 2014, 89, 5-12.	3.0	43
32	Did rock avalanche deposits modulate the late Holocene advance of Tiedemann Glacier, southern Coast Mountains, British Columbia, Canada?. Earth and Planetary Science Letters, 2013, 384, 154-164.	4.4	23
33	Sea-Level Rise by 2100. Science, 2013, 342, 1445-1445.	12.6	140
34	A Reconstruction of Regional and Global Temperature for the Past 11,300 Years. Science, 2013, 339, 1198-1201.	12.6	1,322
35	The multimillennial sea-level commitment of global warming. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13745-13750.	7.1	227
36	Northern Hemisphere forcing of Southern Hemisphere climate during the last deglaciation. Nature, 2013, 494, 81-85.	27.8	186

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37	Ice Sheets in Transition. <i>Science</i> , 2012, 337, 656-658.	12.6	3
38	Younger Dryas cooling and the Greenland climate response to CO <sub>2</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11101-11104.	7.1	85
39	Holocene winter climate variability in mid-latitude western North America. <i>Nature Communications</i> , 2012, 3, 1219.	12.8	50
40	Response to Comment on "Climate Sensitivity Estimated from Temperature Reconstructions of the Last Glacial Maximum". <i>Science</i> , 2012, 337, 1294-1294.	12.6	5
41	Response of the Irish Ice Sheet to abrupt climate change during the last deglaciation. <i>Quaternary Science Reviews</i> , 2012, 35, 100-115.	3.0	42
42	Modeling the surface mass-balance response of the Laurentide Ice Sheet to Bølling warming and its contribution to Meltwater Pulse 1A. <i>Earth and Planetary Science Letters</i> , 2012, 315-316, 24-29.	4.4	13
43	Evolution of a coupled marine ice sheet-sea level model. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	41
44	Ice sheet sources of sea level rise and freshwater discharge during the last deglaciation. <i>Reviews of Geophysics</i> , 2012, 50, .	23.0	203
45	Global warming preceded by increasing carbon dioxide concentrations during the last deglaciation. <i>Nature</i> , 2012, 484, 49-54.	27.8	1,141
46	Global climate evolution during the last deglaciation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1134-42.	7.1	422
47	Interhemispheric Ice-Sheet Synchronicity During the Last Glacial Maximum. <i>Science</i> , 2011, 334, 1265-1269.	12.6	63
48	Climate Sensitivity Estimated from Temperature Reconstructions of the Last Glacial Maximum. <i>Science</i> , 2011, 334, 1385-1388.	12.6	212
49	Milankovitch-paced Termination II in a Nevada speleothem?. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	29
50	Composition and sources of lipid compounds in speleothem calcite from southwestern Oregon and their paleoenvironmental implications. <i>Environmental Earth Sciences</i> , 2011, 62, 1245-1261.	2.7	12
51	Ice-shelf collapse from subsurface warming as a trigger for Heinrich events. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13415-13419.	7.1	278
52	Deglacial history of the West Antarctic Ice Sheet in the Weddell Sea embayment: Constraints on past ice volume change: COMMENT. <i>Geology</i> , 2011, 39, e239-e239.	4.4	13
53	A new projection of sea level change in response to collapse of marine sectors of the Antarctic Ice Sheet. <i>Geophysical Journal International</i> , 2010, 180, 623-634.	2.4	85
54	Sea level as a stabilizing factor for marine-ice-sheet grounding lines. <i>Nature Geoscience</i> , 2010, 3, 850-853.	12.9	132

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55	Modes of Global Climate Variability during Marine Isotope Stage 3 (60â€“26 ka). <i>Journal of Climate</i> , 2010, 23, 1581-1588.	3.2	17
56	Variations of $\delta^{18}\text{O}$ in rainwater from southwestern Oregon. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	30
57	Geochronology and paleoclimatic implications of the last deglaciation of the Mauna Kea Ice Cap, Hawaii. <i>Earth and Planetary Science Letters</i> , 2010, 297, 234-248.	4.4	16
58	The Sea-Level Fingerprint of West Antarctic Collapse. <i>Science</i> , 2009, 323, 753-753.	12.6	222
59	Interglacial and future sea level. <i>Nature</i> , 2009, 462, 856-857.	27.8	58
60	Constraints on future sea-level rise from past sea-level change. <i>Nature Geoscience</i> , 2009, 2, 571-575.	12.9	38
61	$^{10}\text{Be}$ chronology of the last deglaciation of County Donegal, northwestern Ireland. <i>Boreas</i> , 2009, 38, 111-118.	2.4	37
62	The Last Glacial Maximum. <i>Science</i> , 2009, 325, 710-714.	12.6	2,678
63	Environmental influences on speleothem growth in southwestern Oregon during the last 380000 years. <i>Earth and Planetary Science Letters</i> , 2009, 279, 316-325.	4.4	10
64	Comment: Radiocarbon deglaciation chronology of the Thunder Bay, Ontario area and implications for ice sheet retreat patterns. <i>Quaternary Science Reviews</i> , 2009, 28, 2546-2547.	3.0	14
65	Routing of western Canadian Plains runoff during the 8.2 ka cold event. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	26
66	Cosmogenic $^{10}\text{Be}$ ages on the Pomeranian Moraine, Poland. <i>Boreas</i> , 2008, 34, 186-191.	2.4	11
67	Timing of the last deglaciation in Lithuania. <i>Boreas</i> , 2008, 37, 426-433.	2.4	46
68	Geochemical proxies of North American freshwater routing during the Younger Dryas cold event. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 6556-6561.	7.1	162
69	Rapid Holocene Deglaciation of the Labrador Sector of the Laurentide Ice Sheet. <i>Journal of Climate</i> , 2007, 20, 5126-5133.	3.2	62
70	Radiocarbon constraints on the history of the western Irish ice sheet prior to the Last Glacial Maximum. <i>Geology</i> , 2007, 35, 147.	4.4	37
71	Radiocarbon constraints on readvances of the Britishâ€“Irish Ice Sheet in the northern Irish Sea Basin during the last deglaciation. <i>Quaternary Science Reviews</i> , 2007, 26, 1204-1211.	3.0	70
72	Modeling the subglacial hydrology of the James Lobe of the Laurentide Ice Sheet. <i>Quaternary Science Reviews</i> , 2007, 26, 1384-1397.	3.0	33

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73	Mechanisms for an $\sim 1/47$ -kyr climate and sea-level oscillation during marine isotope stage 3. <i>Geophysical Monograph Series</i> , 2007, , 209-246.	0.1	47
74	Insights into the late Cenozoic configuration of the Laurentide Ice Sheet from $^{40}\text{Ar}/^{39}\text{Ar}$ dating of glacially transported minerals in midcontinent tills. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, .	2.5	8
75	Timing of the last deglaciation in Belarus. <i>Boreas</i> , 2007, 36, 307-313.	2.4	33
76	Impact of floods versus routing events on the thermohaline circulation. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	47
77	The middle Pleistocene transition: characteristics, mechanisms, and implications for long-term changes in atmospheric $\text{pCO}_2$ . <i>Quaternary Science Reviews</i> , 2006, 25, 3150-3184.	3.0	827
78	A Speleothem Record of Younger Dryas Cooling, Klamath Mountains, Oregon, USA. <i>Quaternary Research</i> , 2005, 64, 249-256.	1.7	67
79	Ice-Sheet and Sea-Level Changes. <i>Science</i> , 2005, 310, 456-460.	12.6	463
80	Comment on "Catastrophic ice shelf breakup as the source of Heinrich event icebergs" by C. L. Hulbe et al.. <i>Paleoceanography</i> , 2005, 20, n/a-n/a.	3.0	27
81	Ice Sheet and Solid Earth Influences on Far-Field Sea-Level Histories. <i>Science</i> , 2005, 309, 925-928.	12.6	155
82	Rapid Rise of Sea Level 19,000 Years Ago and Its Global Implications. <i>Science</i> , 2004, 304, 1141-1144.	12.6	279
83	Geochemical constraints on the regolith hypothesis for the middle Pleistocene transition. <i>Earth and Planetary Science Letters</i> , 2004, 227, 281-296.	4.4	42
84	Cosmogenic Be dating of the Salpausselkä $\frac{1}{2}$ I Moraine in southwestern Finland. <i>Quaternary Science Reviews</i> , 2004, 23, 2283-2289.	3.0	49
85	Variation of Labrador Sea Water formation over the Last Glacial cycle in a climate model of intermediate complexity. <i>Quaternary Science Reviews</i> , 2004, 23, 449-465.	3.0	30
86	Sedimentological Observations from the Tiskilwa Till, Illinois, and Sky Pilot Till, Manitoba. <i>Géographie Physique Et Quatenaire</i> , 2004, 58, 229-239.	0.2	10
87	Variable responses of western U.S. glaciers during the last deglaciation. <i>Geology</i> , 2004, 32, 81.	4.4	112
88	Meltwater Pulse 1A from Antarctica as a Trigger of the Bolling-Allerod Warm Interval. <i>Science</i> , 2003, 299, 1709-1713.	12.6	486
89	Coupling ice-sheet and climate models for simulation of former ice sheets. <i>Developments in Quaternary Sciences</i> , 2003, 1, 105-126.	0.1	3
90	Cosmogenic $^{10}\text{Be}$ ages of the Saglek Moraines, Torngat Mountains, Labrador. <i>Geology</i> , 2003, 31, 617.	4.4	28

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91	Deglacial chronology from County Donegal, Ireland: implications for deglaciation of the British-Irish ice sheet. <i>Journal of the Geological Society</i> , 2003, 160, 847-855.	2.1	66
92	Modeling the subglacial hydrology of the late Pleistocene Lake Michigan Lobe, Laurentide Ice Sheet. <i>Bulletin of the Geological Society of America</i> , 2002, 114, 665-674.	3.3	56
93	Basal temperature evolution of North American ice sheets and implications for the 100-kyr cycle. <i>Geophysical Research Letters</i> , 2002, 29, 67-1-67-4.	4.0	88
94	Ice sheets and sea level of the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2002, 21, 1-7.	3.0	472
95	The role of the thermohaline circulation in abrupt climate change. <i>Nature</i> , 2002, 415, 863-869.	27.8	714
96	Cosmogenic <sup>3</sup> He and <sup>10</sup> Be chronologies of the late Pinedale northern Yellowstone ice cap, Montana, USA. <i>Geology</i> , 2001, 29, 1095.	4.4	81
97	Investigation of water pressure transients beneath temperate glaciers using numerical groundwater flow experiments. <i>Journal of Quaternary Science</i> , 2000, 15, 567-572.	2.1	6
98	Ice sheets by volume. <i>Nature</i> , 2000, 406, 689-690.	27.8	57
99	Tropical Climate at the Last Glacial Maximum Inferred from Glacier Mass-Balance Modeling. , 2000, 290, 1747-1750.		66
100	THE DEGLACIATION OF THE NORTHERN HEMISPHERE: A Global Perspective. <i>Annual Review of Earth and Planetary Sciences</i> , 1999, 27, 149-182.	11.0	275
101	Freshwater routing by the Laurentide Ice Sheet during the last deglaciation. <i>Geophysical Monograph Series</i> , 1999, , 177-201.	0.1	107
102	Ice-sheet variability around the North Atlantic Ocean during the last deglaciation. <i>Nature</i> , 1998, 392, 373-377.	27.8	209
103	DEGLACIATION OF A SOFT-BEDDED LAURENTIDE ICE SHEET. <i>Quaternary Science Reviews</i> , 1998, 17, 427-448.	3.0	128
104	Origin of the Middle Pleistocene Transition by ice sheet erosion of regolith. <i>Paleoceanography</i> , 1998, 13, 1-9.	3.0	280
105	Numerical modeling of subglacial sediment deformation: Implications for the behavior of the Lake Michigan Lobe, Laurentide Ice Sheet. <i>Journal of Geophysical Research</i> , 1996, 101, 8717-8728.	3.3	61
106	Origin of the first global meltwater pulse following the Last Glacial Maximum. <i>Paleoceanography</i> , 1996, 11, 563-577.	3.0	141
107	Numerical reconstruction of a soft-bedded Laurentide Ice Sheet during the last glacial maximum. <i>Geology</i> , 1996, 24, 679.	4.4	101
108	Correlation of late Pleistocene glaciation in the western United States with North Atlantic Heinrich events. <i>Geology</i> , 1995, 23, 483.	4.4	84

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109	Numerical modeling of advective transport of saturated deforming sediment beneath the Lake Michigan Lobe, Laurentide Ice Sheet. <i>Geomorphology</i> , 1995, 14, 157-166.	2.6	50
110	Subglacial drainage, eskers, and deforming beds beneath the Laurentide and Eurasian ice sheets. <i>Bulletin of the Geological Society of America</i> , 1994, 106, 304-314.	3.3	247
111	Unstable Behavior of the Laurentide Ice Sheet over Deforming Sediment and Its Implications for Climate Change. <i>Quaternary Research</i> , 1994, 41, 19-25.	1.7	202
112	Surface form of the southern Laurentide Ice Sheet and its implications to ice-sheet dynamics. <i>Bulletin of the Geological Society of America</i> , 1992, 104, 595.	3.3	111
113	Striated clast pavements: Products of deforming subglacial sediment?. <i>Geology</i> , 1991, 19, 530.	4.4	78
114	LANDSCAPES OF GLACIAL EROSION, TORNGAT MOUNTAINS, NORTHERN LABRADOR/UNGAVA. <i>Canadian Geographer / Géographie Canadien</i> , 1991, 35, 208-213.	1.5	5
115	Late Deglaciation of the Central Labrador Coast and Its Implications for the Age of Glacial Lakes Naskaupi and McLean and for Prehistory. <i>Quaternary Research</i> , 1990, 34, 296-305.	1.7	35
116	Reconstructed ice-flow patterns and ice limits using drift pebble lithology, outer Nachvak Fiord, northern Labrador: Discussion. <i>Canadian Journal of Earth Sciences</i> , 1990, 27, 1002-1006.	1.3	7
117	Late Quaternary chronology and environments of Square Lake, Torngat Mountains, Labrador. <i>Canadian Journal of Earth Sciences</i> , 1989, 26, 2130-2144.	1.3	27
118	Glacial geology of the Torngat Mountains, Labrador. <i>Canadian Journal of Earth Sciences</i> , 1988, 25, 1184-1198.	1.3	24
119	Subglacial Sediment Dispersal and till Composition. <i>Journal of Geology</i> , 1987, 95, 527-541.	1.4	71