

# 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	The Last Glacial Maximum. <i>Science</i> , 2009, 325, 710-714.	12.6	2,678
2	A Reconstruction of Regional and Global Temperature for the Past 11,300 Years. <i>Science</i> , 2013, 339, 1198-1201.	12.6	1,322
3	Global warming preceded by increasing carbon dioxide concentrations during the last deglaciation. <i>Nature</i> , 2012, 484, 49-54.	27.8	1,141
4	The middle Pleistocene transition: characteristics, mechanisms, and implications for long-term changes in atmospheric pCO <sub>2</sub> . <i>Quaternary Science Reviews</i> , 2006, 25, 3150-3184.	3.0	827
5	The role of the thermohaline circulation in abrupt climate change. <i>Nature</i> , 2002, 415, 863-869.	27.8	714
6	Meltwater Pulse 1A from Antarctica as a Trigger of the Bolling-Allerod Warm Interval. <i>Science</i> , 2003, 299, 1709-1713.	12.6	486
7	Ice sheets and sea level of the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2002, 21, 1-7.	3.0	472
8	Ice-Sheet and Sea-Level Changes. <i>Science</i> , 2005, 310, 456-460.	12.6	463
9	Consequences of twenty-first-century policy for multi-millennial climate and sea-level change. <i>Nature Climate Change</i> , 2016, 6, 360-369.	18.8	442
10	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
11	Origin of the Middle Pleistocene Transition by ice sheet erosion of regolith. <i>Paleoceanography</i> , 1998, 13, 1-9.	3.0	280
12	Rapid Rise of Sea Level 19,000 Years Ago and Its Global Implications. <i>Science</i> , 2004, 304, 1141-1144.	12.6	279
13	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
14	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
15	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
16	The multimillennial sea-level commitment of global warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13745-13750.	7.1	227
17	The Sea-Level Fingerprint of West Antarctic Collapse. <i>Science</i> , 2009, 323, 753-753.	12.6	222
18	Climate Sensitivity Estimated from Temperature Reconstructions of the Last Glacial Maximum. <i>Science</i> , 2011, 334, 1385-1388.	12.6	212

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19	Ice-sheet variability around the North Atlantic Ocean during the last deglaciation. <i>Nature</i> , 1998, 392, 373-377.	27.8	209
20	Ice sheet sources of sea level rise and freshwater discharge during the last deglaciation. <i>Reviews of Geophysics</i> , 2012, 50, .	23.0	203
21	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
22	Northern Hemisphere forcing of Southern Hemisphere climate during the last deglaciation. <i>Nature</i> , 2013, 494, 81-85.	27.8	186
23	Coherent changes of southeastern equatorial and northern African rainfall during the last deglaciation. <i>Science</i> , 2014, 346, 1223-1227.	12.6	172
24	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
25	Regional and global sea-surface temperatures during the last interglaciation. <i>Science</i> , 2017, 355, 276-279.	12.6	157
26	Ice Sheet and Solid Earth Influences on Far-Field Sea-Level Histories. <i>Science</i> , 2005, 309, 925-928.	12.6	155
27	Origin of the first global meltwater pulse following the Last Glacial Maximum. <i>Paleoceanography</i> , 1996, 11, 563-577.	3.0	141
28	Sea-Level Rise by 2100. <i>Science</i> , 2013, 342, 1445-1445.	12.6	140
29	Sea level as a stabilizing factor for marine-ice-sheet grounding lines. <i>Nature Geoscience</i> , 2010, 3, 850-853.	12.9	132
30	Consistent evidence of increasing Antarctic accumulation with warming. <i>Nature Climate Change</i> , 2015, 5, 348-352.	18.8	130
31	DEGLACIATION OF A SOFT-BEDDED LAURENTIDE ICE SHEET. <i>Quaternary Science Reviews</i> , 1998, 17, 427-448.	3.0	128
32	Variable responses of western U.S. glaciers during the last deglaciation. <i>Geology</i> , 2004, 32, 81.	4.4	112
33	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
34	Final Laurentide ice-sheet deglaciation and Holocene climate-sea level change. <i>Quaternary Science Reviews</i> , 2016, 152, 49-59.	3.0	110
35	Freshwater routing by the Laurentide Ice Sheet during the last deglaciation. <i>Geophysical Monograph Series</i> , 1999, , 177-201.	0.1	107
36	Numerical reconstruction of a soft-bedded Laurentide Ice Sheet during the last glacial maximum. <i>Geology</i> , 1996, 24, 679.	4.4	101

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37	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
38	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
39	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
40	Correlation of late Pleistocene glaciation in the western United States with North Atlantic Heinrich events. <i>Geology</i> , 1995, 23, 483.	4.4	84
41	Sea-level constraints on the amplitude and source distribution of Meltwater Pulse 1A. <i>Nature Geoscience</i> , 2016, 9, 130-134.	12.9	83
42	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
43	Striated clast pavements: Products of deforming subglacial sediment?. <i>Geology</i> , 1991, 19, 530.	4.4	78
44	Subglacial Sediment Dispersal and till Composition. <i>Journal of Geology</i> , 1987, 95, 527-541.	1.4	71
45	Regional and global forcing of glacier retreat during the last deglaciation. <i>Nature Communications</i> , 2015, 6, 8059.	12.8	71
46	Radiocarbon constraints on readvances of the British-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
47	Centennial-scale Holocene climate variations amplified by Antarctic Ice Sheet discharge. <i>Nature</i> , 2017, 541, 72-76.	27.8	68
48	A Speleothem Record of Younger Dryas Cooling, Klamath Mountains, Oregon, USA. <i>Quaternary Research</i> , 2005, 64, 249-256.	1.7	67
49	Tropical Climate at the Last Glacial Maximum Inferred from Glacier Mass-Balance Modeling. , 2000, 290, 1747-1750.		66
50	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
51	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
52	Assessing population exposure to coastal flooding due to sea level rise. <i>Nature Communications</i> , 2021, 12, 6900.	12.8	66
53	Interhemispheric Ice-Sheet Synchronicity During the Last Glacial Maximum. <i>Science</i> , 2011, 334, 1265-1269.	12.6	63
54	Rapid Holocene Deglaciation of the Labrador Sector of the Laurentide Ice Sheet. <i>Journal of Climate</i> , 2007, 20, 5126-5133.	3.2	62

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55	Oceanic forcing of penultimate deglacial and last interglacial sea-level rise. <i>Nature</i> , 2020, 577, 660-664.	27.8	62
56	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
57	Interglacial and future sea level. <i>Nature</i> , 2009, 462, 856-857.	27.8	58
58	Climate evolution across the Mid-Brunhes Transition. <i>Climate of the Past</i> , 2018, 14, 2071-2087.	3.4	58
59	Ice sheets by volume. <i>Nature</i> , 2000, 406, 689-690.	27.8	57
60	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
61	Closing the sea level budget at the Last Glacial Maximum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15861-15862.	7.1	52
62	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
63	Holocene winter climate variability in mid-latitude western North America. <i>Nature Communications</i> , 2012, 3, 1219.	12.8	50
64	Cosmogenic Be dating of the Salpausselkä 1/2 I Moraine in southwestern Finland. <i>Quaternary Science Reviews</i> , 2004, 23, 2283-2289.	3.0	49
65	Impact of floods versus routing events on the thermohaline circulation. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	47
66	Mechanisms for an ~7-kyr climate and sea-level oscillation during marine isotope stage 3. <i>Geophysical Monograph Series</i> , 2007, , 209-246.	0.1	47
67	Timing of the last deglaciation in Lithuania. <i>Boreas</i> , 2008, 37, 426-433.	2.4	46
68	<sup>10</sup> Be surface exposure ages on the late-Pleistocene and Holocene history of Linn�breen on Svalbard. <i>Quaternary Science Reviews</i> , 2014, 89, 5-12.	3.0	43
69	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
70	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
71	Recent Progress in Understanding and Projecting Regional and Global Mean Sea Level Change. <i>Current Climate Change Reports</i> , 2015, 1, 224-246.	8.6	42
72	Evolution of a coupled marine ice sheet–sea level model. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	41

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73	Constraints on future sea-level rise from past sea-level change. <i>Nature Geoscience</i> , 2009, 2, 571-575.	12.9	38
74	Asynchronous warming and $\delta^{18}\text{O}$ 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
75	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
76	$^{10}\text{Be}$ chronology of the last deglaciation of County Donegal, northwestern Ireland. <i>Boreas</i> , 2009, 38, 111-118.	2.4	37
77	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
78	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
79	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
80	Timing of the last deglaciation in Belarus. <i>Boreas</i> , 2007, 36, 307-313.	2.4	33
81	Antarctic ice dynamics amplified by Northern Hemisphere sea-level forcing. <i>Nature</i> , 2020, 587, 600-604.	27.8	32
82	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
83	Variations of $\delta^{18}\text{O}$ in rainwater from southwestern Oregon. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	30
84	Milankovitch-paced Termination II in a Nevada speleothem?. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	29
85	Cosmogenic $^{10}\text{Be}$ ages of the Saglek Moraines, Torngat Mountains, Labrador. <i>Geology</i> , 2003, 31, 617.	4.4	28
86	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
87	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
88	Identification of the short-lived Santa Rosa geomagnetic excursion in lavas on Floreana Island (Galapagos) by $^{40}\text{Ar}/^{39}\text{Ar}$ geochronology. <i>Geology</i> , 2016, 44, 359-362.	4.4	27
89	Routing of western Canadian Plains runoff during the 8.2 ka cold event. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	26
90	Persistent millennial-scale glacier fluctuations in Ireland between 24 ka and 10 ka. <i>Geology</i> , 2018, 46, 151-154.	4.4	25

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91	Rapid postglacial rebound amplifies global sea level rise following West Antarctic Ice Sheet collapse. <i>Science Advances</i> , 2021, 7, .	10.3	25
92	Glacial geology of the Torngat Mountains, Labrador. <i>Canadian Journal of Earth Sciences</i> , 1988, 25, 1184-1198.	1.3	24
93	Did rock avalanche deposits modulate the late Holocene advance of Tiedemann Glacier, southern Coast Mountains, British Columbia, Canada?. <i>Earth and Planetary Science Letters</i> , 2013, 384, 154-164.	4.4	23
94	$^{10}\text{Be}$ 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
95	Sea-level commitment as a gauge for climate policy. <i>Nature Climate Change</i> , 2018, 8, 653-655.	18.8	21
96	$^{10}\text{Be}$ 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
97	Cosmogenic dating of Late Pleistocene glaciation, southern tropical Andes, Peru. <i>Journal of Quaternary Science</i> , 2015, 30, 841-847.	2.1	19
98	Last Glacial Maximum cirque glaciation in Ireland and implications for reconstructions of the Irish Ice Sheet. <i>Quaternary Science Reviews</i> , 2016, 141, 85-93.	3.0	19
99	Freshwater forcing of the Atlantic Meridional Overturning Circulation revisited. <i>Nature Climate Change</i> , 2022, 12, 449-454.	18.8	18
100	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
101	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
102	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
103	Millennialâ€“Scale Instability in the Geomagnetic Field Prior to the Matuyamaâ€“Brunhes Reversal. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 952-967.	2.5	14
104	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
105	Modeling the surface mass-balance response of the Laurentide Ice Sheet to BÃ¼lling warming and its contribution to Meltwater Pulse 1A. <i>Earth and Planetary Science Letters</i> , 2012, 315-316, 24-29.	4.4	13
106	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
107	Cosmogenic $^{10}\text{Be}$ ages on the Pomeranian Moraine, Poland. <i>Boreas</i> , 2008, 34, 186-191.	2.4	11
108	Sedimentological Observations from the Tiskilwa Till, Illinois, and Sky Pilot Till, Manitoba. <i>GÃ©ographie Physique Et Quatenaire</i> , 2004, 58, 229-239.	0.2	10

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109	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
110	Insights into the late Cenozoic configuration of the Laurentide Ice Sheet from <sup>40</sup> Ar/ <sup>39</sup> Ar dating of glacially transported minerals in midcontinent tills. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, .	2.5	8
111	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
112	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
113	LANDSCAPES OF GLACIAL EROSION, TORNGAT MOUNTAINS, NORTHERN LABRADOR/UNGAVA. <i>Canadian Geographer / Géographie Canadien</i> , 1991, 35, 208-213.	1.5	5
114	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
115	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
116	Ice Sheets in Transition. <i>Science</i> , 2012, 337, 656-658.	12.6	3
117	Comment on "The deglaciation over the Laurentide Fan: History of diatoms, IRD, ice and fresh water". <i>Quaternary Science Reviews</i> , 2016, 139, 164-166.	3.0	2
118	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), <i>Quaternary Science Reviews</i> 141, 85-93. <i>Quaternary Science Reviews</i> , 2016, 150, 310-311.	3.0	0
119	Controls on dripwater chemistry of Oregon Caves National Monument, northwestern United States. <i>Journal of Hydrology</i> , 2018, 557, 30-40.	5.4	0