

# Edward J Brook

## List of Publications by Year in descending order

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100  
papers

7,976  
citations

53794

45  
h-index

49909

87  
g-index

103  
all docs

103  
docs citations

103  
times ranked

5929  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid post-glacial bedrock weathering in coastal Norway. <i>Geomorphology</i> , 2022, 397, 108003.	2.6	1
2	Northern Hemisphere atmospheric history of carbon monoxide since preindustrial times reconstructed from multiple Greenland ice cores. <i>Climate of the Past</i> , 2022, 18, 631-647.	3.4	4
3	Abrupt changes in the global carbon cycle during the last glacial period. <i>Nature Geoscience</i> , 2021, 14, 91-96.	12.9	53
4	Antarctic surface temperature and elevation during the Last Glacial Maximum. <i>Science</i> , 2021, 372, 1097-1101.	12.6	61
5	Enhanced moisture delivery into Victoria Land, East Antarctica, during the early Last Interglacial: implications for West Antarctic Ice Sheet stability. <i>Climate of the Past</i> , 2021, 17, 1841-1855.	3.4	5
6	Ice core evidence for atmospheric oxygen decline since the Mid-Pleistocene transition. <i>Science Advances</i> , 2021, 7, eabj9341.	10.3	6
7	Excess methane in Greenland ice cores associated with high dust concentrations. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 270, 409-430.	3.9	20
8	Widespread early Holocene deglaciation, Washington Land, northwest Greenland. <i>Quaternary Science Reviews</i> , 2020, 231, 106181.	3.0	10
9	The SP19 chronology for the South Pole Ice Core – Part 2: gas chronology, $\delta^{18}O$ age, and smoothing of atmospheric records. <i>Climate of the Past</i> , 2020, 16, 2431-2444.	3.4	16
10	An 83,000-year-old ice core from Roosevelt Island, Ross Sea, Antarctica. <i>Climate of the Past</i> , 2020, 16, 1691-1713.	3.4	14
11	$\delta^{18}O$ changes from the Last Glacial Maximum to the preindustrial – Part 1: Quantitative reconstruction of terrestrial and marine emissions using $\delta^{18}O$ stable isotopes in ice cores. <i>Biogeosciences</i> , 2019, 16, 3997-4021.	3.3	12
12	Spatial pattern of accumulation at Taylor Dome during Marine Isotope Stage 4: stratigraphic constraints from Taylor Glacier. <i>Climate of the Past</i> , 2019, 15, 1537-1556.	3.4	14
13	$^{10}Be$ 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
14	Antarctic temperature and $\delta^{18}O$ : near-synchrony yet variable phasing during the last deglaciation. <i>Climate of the Past</i> , 2019, 15, 913-926.	3.4	20
15	The SP19 chronology for the South Pole Ice Core – Part 1: volcanic matching and annual layer counting. <i>Climate of the Past</i> , 2019, 15, 1793-1808.	3.4	38
16	Two-million-year-old snapshots of atmospheric gases from Antarctic ice. <i>Nature</i> , 2019, 574, 663-666.	27.8	88
17	Early to Late Holocene Surface Exposure Ages From Two Marine-Terminating Outlet Glaciers in Northwest Greenland. <i>Geophysical Research Letters</i> , 2018, 45, 7028-7039.	4.0	14
18	Antarctic and global climate history viewed from ice cores. <i>Nature</i> , 2018, 558, 200-208.	27.8	96

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19	Atmospheric methane variability: Centennial-scale signals in the Last Glacial Period. <i>Global Biogeochemical Cycles</i> , 2017, 31, 575-590.	4.9	15
20	Synchronous volcanic eruptions and abrupt climate change ~17.7 ka plausibly linked by stratospheric ozone depletion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10035-10040.	7.1	58
21	Atmospheric gas records from Taylor Glacier, Antarctica, reveal ancient ice with ages spanning the entire last glacial cycle. <i>Climate of the Past</i> , 2017, 13, 943-958.	3.4	15
22	Atmospheric methane control mechanisms during the early Holocene. <i>Climate of the Past</i> , 2017, 13, 1227-1242.	3.4	16
23	Does $\delta^{18}O$ of $O_2$ record meridional shifts in tropical rainfall?. <i>Climate of the Past</i> , 2017, 13, 1323-1338.	3.4	26
24	Local artifacts in ice core methane records caused by layered bubble trapping and in situ production: a multi-site investigation. <i>Climate of the Past</i> , 2016, 12, 1061-1077.	3.4	23
25	The WAIS Divide deep ice core WD2014 chronology – Part 2: Annual-layer counting (0–31 ka BP). <i>Climate of the Past</i> , 2016, 12, 769-786.	3.4	137
26	Reconstructing the last interglacial at Summit, Greenland: Insights from GISP2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9710-9715.	7.1	40
27	Measurements of $^{14}C$ in ancient ice from Taylor Glacier, Antarctica constrain in situ cosmogenic $^{14}CH_4$ and $^{14}CO$ production rates. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 177, 62-77.	3.9	18
28	Carbon isotopes characterize rapid changes in atmospheric carbon dioxide during the last deglaciation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3465-3470.	7.1	109
29	Cosmogenic dating of Late Pleistocene glaciation, southern tropical Andes, Peru. <i>Journal of Quaternary Science</i> , 2015, 30, 841-847.	2.1	19
30	Observing and modeling the influence of layering on bubble trapping in polar firn. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2558-2574.	3.3	39
31	Enhanced tropical methane production in response to iceberg discharge in the North Atlantic. <i>Science</i> , 2015, 348, 1016-1019.	12.6	118
32	Comment on ‘Synchronous records of $pCO_2$ and $\delta^{14}C$ suggest rapid, ocean-derived $pCO_2$ fluctuations at the onset of Younger Dryas’ by Steinhilber et al. <i>Quaternary Science Reviews</i> , 2015, 107, 267-270.	3.0	2
33	Links between atmospheric carbon dioxide, the land carbon reservoir and climate over the past millennium. <i>Nature Geoscience</i> , 2015, 8, 383-387.	12.9	66
34	Isotopic constraints on marine and terrestrial $N_2O$ emissions during the last deglaciation. <i>Nature</i> , 2014, 516, 234-237.	27.8	38
35	Radiometric $^{81}Kr$ dating identifies 120,000-year-old ice at Taylor Glacier, Antarctica. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6876-6881.	7.1	57
36	Siple Dome ice reveals two modes of millennial $CO_2$ change during the last ice age. <i>Nature Communications</i> , 2014, 5, 3723.	12.8	82

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37	An ice core record of near-synchronous global climate changes at the BÅlling transition. <i>Nature Geoscience</i> , 2014, 7, 459-463.	12.9	48
38	Centennial-scale changes in the global carbon cycle during the last deglaciation. <i>Nature</i> , 2014, 514, 616-619.	27.8	380
39	Greenland temperature response to climate forcing during the last deglaciation. <i>Science</i> , 2014, 345, 1177-1180.	12.6	226
40	Earliest Holocene south Greenland ice sheet retreat within its late Holocene extent. <i>Geophysical Research Letters</i> , 2014, 41, 5514-5521.	4.0	50
41	Response of atmospheric CO <sub>2</sub> to the abrupt cooling event 8200 years ago. <i>Geophysical Research Letters</i> , 2014, 41, 604-609.	4.0	15
42	Continuous methane measurements from a late Holocene Greenland ice core: Atmospheric and in-situ signals. <i>Earth and Planetary Science Letters</i> , 2013, 368, 9-19.	4.4	65
43	<sup>10</sup> B exposure age constraints on the Late Weichselian ice sheet geometry and dynamics in interstream areas, western Svalbard. <i>Boreas</i> , 2013, 42, 43-56.	2.4	26
44	Atmospheric CO <sub>2</sub> over the last 1000 years: A high-resolution record from the West Antarctic Ice Sheet (WAIS) Divide ice core. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.9	68
45	In situ cosmogenic radiocarbon production and 2D ice flow line modeling for an Antarctic blue ice area. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	6
46	Abrupt change in atmospheric CO <sub>2</sub> during the last ice age. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	28
47	Multidecadal variability of atmospheric methane, 1000–1800 C.E.. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	78
48	Methane and megafauna. <i>Nature Geoscience</i> , 2011, 4, 271-272.	12.9	7
49	Modes of Global Climate Variability during Marine Isotope Stage 3 (60–26 ka). <i>Journal of Climate</i> , 2010, 23, 1581-1588.	3.2	17
50	Searching for the Oldest Ice. <i>Eos</i> , 2010, 91, 357-358.	0.1	14
51	Methane from the East Siberian Arctic Shelf. <i>Science</i> , 2010, 329, 1146-1147.	12.6	9
52	<sup>14</sup> CH <sub>4</sub> Measurements in Greenland Ice: Investigating Last Glacial Termination CH <sub>4</sub> Sources. <i>Science</i> , 2009, 324, 506-508.	12.6	88
53	Ice stratigraphy at the PÅkitsoq ice margin, West Greenland, derived from gas records. <i>Journal of Glaciology</i> , 2009, 55, 411-421.	2.2	12
54	Oxygen-18 of O <sub>2</sub> Records the Impact of Abrupt Climate Change on the Terrestrial Biosphere. <i>Science</i> , 2009, 324, 1431-1434.	12.6	152

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55	Flux and size fractionation of <sup>3</sup> He in interplanetary dust from Antarctic ice core samples. <i>Earth and Planetary Science Letters</i> , 2009, 286, 565-569.	4.4	19
56	Relative timing and variability of atmospheric methane and GISP2 oxygen isotopes between 68 and 86 ka. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	4.9	19
57	A high-precision method for measurement of paleoatmospheric CO <sub>2</sub> in small polar ice samples. <i>Journal of Glaciology</i> , 2009, 55, 499-506.	2.2	33
58	Cosmogenic <sup>10</sup> Be ages on the Pomeranian Moraine, Poland. <i>Boreas</i> , 2008, 34, 186-191.	2.4	11
59	Timing of the last deglaciation in Lithuania. <i>Boreas</i> , 2008, 37, 426-433.	2.4	46
60	Beryllium-10 exposure ages of erratic boulders in southern Norway and implications for the history of the Fennoscandian Ice Sheet. <i>Quaternary Science Reviews</i> , 2008, 27, 320-336.	3.0	79
61	Atmospheric CO <sub>2</sub> and Climate on Millennial Time Scales During the Last Glacial Period. <i>Science</i> , 2008, 322, 83-85.	12.6	250
62	A novel method for obtaining very large ancient air samples from ablating glacial ice for analyses of methane radiocarbon. <i>Journal of Glaciology</i> , 2008, 54, 233-244.	2.2	16
63	A New Method for Analyzing <sup>14</sup> C of Methane in Ancient Air Extracted from Glacial Ice. <i>Radiocarbon</i> , 2008, 50, 53-73.	1.8	18
64	CO <sub>2</sub> diffusion in polar ice: observations from naturally formed CO <sub>2</sub> spikes in the Siple Dome (Antarctica) ice core. <i>Journal of Glaciology</i> , 2008, 54, 685-695.	2.2	60
65	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
66	Rapid Holocene Deglaciation of the Labrador Sector of the Laurentide Ice Sheet. <i>Journal of Climate</i> , 2007, 20, 5126-5133.	3.2	62
67	Precise timing and characterization of abrupt climate change 8200 years ago from air trapped in polar ice. <i>Quaternary Science Reviews</i> , 2007, 26, 1212-1222.	3.0	213
68	Impact of the ocean's Overturning circulation on atmospheric CO <sub>2</sub> . <i>Geophysical Monograph Series</i> , 2007, , 315-334.	0.1	17
69	Atmospheric CO <sub>2</sub> and climate from 65 to 30 ka B.P.. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	59
70	Abrupt changes in atmospheric methane at the MIS 5b-5a transition. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	30
71	The surface geometry of the Last Glacial Maximum ice sheet in the AndÃ¥nland region, northern Norway, constrained by surface exposure dating and clay mineralogy. <i>Boreas</i> , 2007, 36, 227-239.	2.4	33
72	Timing of the last deglaciation in Belarus. <i>Boreas</i> , 2007, 36, 307-313.	2.4	33

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73	Chronology reconstruction for the disturbed bottom section of the GISP2 and the GRIP ice cores: Implications for Termination II in Greenland. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	46
74	Glacial survival of blockfields on the Varanger Peninsula, northern Norway. <i>Geomorphology</i> , 2006, 82, 255-272.	2.6	51
75	Gas records from the West Greenland ice margin covering the Last Glacial Termination: a horizontal ice core. <i>Quaternary Science Reviews</i> , 2006, 25, 865-875.	3.0	60
76	In situ <sup>10</sup> Be exposure ages from southeastern Norway: implications for the geometry of the Weichselian Scandinavian ice sheet. <i>Quaternary Science Reviews</i> , 2006, 25, 1097-1109.	3.0	43
77	Cosmogenic <sup>10</sup> Be exposure age dating across Early to Late Weichselian ice-marginal zones in northwestern Russia. <i>Boreas</i> , 2006, 35, 576-586.	2.4	15
78	Ice Record of <sup>13</sup> C for Atmospheric CH <sub>4</sub> Across the Younger Dryas-Preboreal Transition. <i>Science</i> , 2006, 313, 1109-1112.	12.6	80
79	ATMOSPHERIC SCIENCE: Tiny Bubbles Tell All. <i>Science</i> , 2005, 310, 1285-1287.	12.6	22
80	Timing of millennial-scale climate change at Siple Dome, West Antarctica, during the last glacial period. <i>Quaternary Science Reviews</i> , 2005, 24, 1333-1343.	3.0	130
81	Comment on "Greenland-Antarctic phase relations and millennial time-scale climate fluctuations in the Greenland ice-cores" by C. Wunsch. <i>Quaternary Science Reviews</i> , 2004, 23, 2053-2054.	3.0	24
82	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
83	Variable responses of western U.S. glaciers during the last deglaciation. <i>Geology</i> , 2004, 32, 81.	4.4	112
84	Northwest Svalbard during the last glaciation: Ice-free areas existed. <i>Geology</i> , 2003, 31, 905.	4.4	87
85	Cosmogenic <sup>10</sup> Be ages of the Saglek Moraines, Torngat Mountains, Labrador. <i>Geology</i> , 2003, 31, 617.	4.4	28
86	A northern lead in the orbital band: north-south phasing of Ice-Age events. <i>Quaternary Science Reviews</i> , 2002, 21, 431-441.	3.0	97
87	Timing of Millennial-Scale Climate Change in Antarctica and Greenland During the Last Glacial Period. <i>Science</i> , 2001, 291, 109-112.	12.6	1,019
88	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
89	Ice Sheets and the Ice-Core Record of Climate Change. <i>International Geophysics</i> , 2000, 72, 459-497.	0.6	7
90	On the origin and timing of rapid changes in atmospheric methane during the Last Glacial Period. <i>Global Biogeochemical Cycles</i> , 2000, 14, 559-572.	4.9	270

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91	Accretion of interplanetary dust in polar ice. <i>Geophysical Research Letters</i> , 2000, 27, 3145-3148.	4.0	31
92	Abrupt Climate Change at the End of the Last Glacial Period Inferred from Trapped Air in Polar Ice. <i>Science</i> , 1999, 286, 930-934.	12.6	506
93	Atmospheric methane and millennial-scale climate change. <i>Geophysical Monograph Series</i> , 1999, , 165-175.	0.1	31
94	Timing of abrupt climate change at the end of the Younger Dryas interval from thermally fractionated gases in polar ice. <i>Nature</i> , 1998, 391, 141-146.	27.8	639
95	Cosmogenic nuclide exposure ages along a vertical transect in western Norway: Implications for the height of the Fennoscandian ice sheet. <i>Geology</i> , 1996, 24, 207.	4.4	76
96	Cosmogenic nuclide exposure ages and glacial history of late Quaternary Ross Sea drift in McMurdo Sound, Antarctica. <i>Earth and Planetary Science Letters</i> , 1995, 131, 41-56.	4.4	46
97	Surface-Exposure Chronology Using in Situ Cosmogenic $^3\text{He}$ in Antarctic Quartz Sandstone Boulders. <i>Quaternary Research</i> , 1993, 39, 1-10.	1.7	53
98	Chronology of Taylor Glacier Advances in Arena Valley, Antarctica, Using in Situ Cosmogenic $^3\text{He}$ and $^{10}\text{Be}$ . <i>Quaternary Research</i> , 1993, 39, 11-23.	1.7	126
99	Effective attenuation lengths of cosmic rays producing $^{10}\text{Be}$ AND $^{26}\text{Al}$ in quartz: Implications for exposure age dating. <i>Geophysical Research Letters</i> , 1992, 19, 369-372.	4.0	125
100	Examination of surface exposure ages of Antarctic moraines using in situ produced $^{10}\text{Be}$ and $^{26}\text{Al}$ . <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 2269-2283.	3.9	295