

E J Brook

List of Publications by Year in descending order

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83
papers

9,027
citations

71102

41
h-index

60623

81
g-index

117
all docs

117
docs citations

117
times ranked

6854
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Transient Simulation of Last Deglaciation with a New Mechanism for BÅlling-AllerÅd Warming. <i>Science</i> , 2009, 325, 310-314.	12.6	843
3	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
4	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
5	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
6	Centennial-scale changes in the global carbon cycle during the last deglaciation. <i>Nature</i> , 2014, 514, 616-619.	27.8	380
7	Rapid Variations in Atmospheric Methane Concentration During the Past 110,000 Years. <i>Science</i> , 1996, 273, 1087-1091.	12.6	322
8	Synchronous Climate Changes in Antarctica and the North Atlantic. , 1998, 282, 92-95.		292
9	Consistently dated records from the Greenland GRIP, GISP2 and NGRIP ice cores for the past 104Åka reveal regional millennial-scale $\delta^{18}O$ gradients with possible Heinrich event imprint. <i>Quaternary Science Reviews</i> , 2014, 106, 29-46.	3.0	275
10	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
11	Atmospheric CO ₂ and Climate on Millennial Time Scales During the Last Glacial Period. <i>Science</i> , 2008, 322, 83-85.	12.6	250
12	Greenland temperature response to climate forcing during the last deglaciation. <i>Science</i> , 2014, 345, 1177-1180.	12.6	226
13	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
14	The WAIS Divide deep ice core WD2014 chronology â€“ Part 1: Methane synchronization (68â€“31 ka BP) and the gas ageâ€“ice age difference. <i>Climate of the Past</i> , 2015, 11, 153-173.	3.4	172
15	Oxygen-18 of O ₂ Records the Impact of Abrupt Climate Change on the Terrestrial Biosphere. <i>Science</i> , 2009, 324, 1431-1434.	12.6	152
16	The WAIS Divide deep ice core WD2014 chronology â€“ Part 2: Annual-layer counting (0â€“31â€“kaâ€“BP). <i>Climate of the Past</i> , 2016, 12, 769-786.	3.4	137
17	A first chronology for the North Greenland Eemian Ice Drilling (NEEM) ice core. <i>Climate of the Past</i> , 2013, 9, 2713-2730.	3.4	133
18	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

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19	Chronology of Taylor Glacier Advances in Arena Valley, Antarctica, Using in Situ Cosmogenic ³ He and ¹⁰ Be. <i>Quaternary Research</i> , 1993, 39, 11-23.	1.7	126
20	Where to find 1.5 million yr old ice for the IPICS "Oldest-Ice" ice core. <i>Climate of the Past</i> , 2013, 9, 2489-2505.	3.4	123
21	Enhanced tropical methane production in response to iceberg discharge in the North Atlantic. <i>Science</i> , 2015, 348, 1016-1019.	12.6	118
22	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
23	Antarctic and global climate history viewed from ice cores. <i>Nature</i> , 2018, 558, 200-208.	27.8	96
24	¹⁴ C/ ⁴ C Measurements in Greenland Ice: Investigating Last Glacial Termination CH ₄ Sources. <i>Science</i> , 2009, 324, 506-508.	12.6	88
25	Two-million-year-old snapshots of atmospheric gases from Antarctic ice. <i>Nature</i> , 2019, 574, 663-666.	27.8	88
26	Minimal geological methane emissions during the Younger Dryas"Preboreal abrupt warming event. <i>Nature</i> , 2017, 548, 443-446.	27.8	86
27	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
28	Ice Record of ¹³ C for Atmospheric CH ₄ Across the Younger Dryas-Preboreal Transition. <i>Science</i> , 2006, 313, 1109-1112.	12.6	80
29	Constraints on the Late Holocene Anthropogenic Contribution to the Atmospheric Methane Budget. <i>Science</i> , 2013, 342, 964-966.	12.6	80
30	Atmospheric methane during the last four glacial-interglacial cycles: Rapid changes and their link with Antarctic temperature. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	79
31	Multidecadal variability of atmospheric methane, 1000"1800 C.E.. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	78
32	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
33	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
34	Antarctic surface temperature and elevation during the Last Glacial Maximum. <i>Science</i> , 2021, 372, 1097-1101.	12.6	61
35	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
36	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

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37	Radiometric ⁸¹ Kr dating identifies 120,000-year-old ice at Taylor Glacier, Antarctica. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6876-6881.	7.1	57
38	Abrupt changes in the global carbon cycle during the last glacial period. Nature Geoscience, 2021, 14, 91-96.	12.9	53
39	Earliest Holocene south Greenland ice sheet retreat within its late Holocene extent. Geophysical Research Letters, 2014, 41, 5514-5521.	4.0	50
40	Old carbon reservoirs were not important in the deglacial methane budget. Science, 2020, 367, 907-910.	12.6	50
41	High-resolution glacial and deglacial record of atmospheric methane by continuous-flow and laser spectrometer analysis along the NEEM ice core. Climate of the Past, 2013, 9, 2579-2593.	3.4	49
42	An ice core record of near-synchronous global climate changes at the BÅlling transition. Nature Geoscience, 2014, 7, 459-463.	12.9	48
43	Reconstructing the last interglacial at Summit, Greenland: Insights from GISP2. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9710-9715.	7.1	40
44	Observing and modeling the influence of layering on bubble trapping in polar firn. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2558-2574.	3.3	39
45	Isotopic constraints on marine and terrestrial N ₂ O emissions during the last deglaciation. Nature, 2014, 516, 234-237.	27.8	38
46	The SP19 chronology for the South Pole Ice Core â€“ Part 1: volcanic matching and annual layer counting. Climate of the Past, 2019, 15, 1793-1808.	3.4	38
47	A high-precision method for measurement of paleoatmospheric CO ₂ in small polar ice samples. Journal of Glaciology, 2009, 55, 499-506.	2.2	33
48	Accretion of interplanetary dust in polar ice. Geophysical Research Letters, 2000, 27, 3145-3148.	4.0	31
49	Global ocean heat content in the Last Interglacial. Nature Geoscience, 2020, 13, 77-81.	12.9	31
50	Abrupt changes in atmospheric methane at the MIS 5bâ€“5a transition. Geophysical Research Letters, 2007, 34, .	4.0	30
51	Controls on Millennialâ€“Scale Atmospheric CO ₂ Variability During the Last Glacial Period. Geophysical Research Letters, 2018, 45, 7731-7740.	4.0	29
52	Abrupt change in atmospheric CO ₂ during the last ice age. Geophysical Research Letters, 2012, 39, .	4.0	28
53	Does ¹⁸ O of O ₂ record meridional shifts in tropical rainfall?. Climate of the Past, 2017, 13, 1323-1338.	3.4	26
54	High resolution measurements of carbon monoxide along a late Holocene Greenland ice core: evidence for in situ production. Climate of the Past, 2014, 10, 987-1000.	3.4	25

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55	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
56	Antarctic temperature and CO ₂ : near-synchrony yet variable phasing during the last deglaciation. <i>Climate of the Past</i> , 2019, 15, 913-926.	3.4	20
57	Excess methane in Greenland ice cores associated with high dust concentrations. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 270, 409-430.	3.9	20
58	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
59	A New Method for Analyzing ¹⁴ C of Methane in Ancient Air Extracted from Glacial Ice. <i>Radiocarbon</i> , 2008, 50, 53-73.	1.8	18
60	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
61	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
62	Atmospheric methane control mechanisms during the early Holocene. <i>Climate of the Past</i> , 2017, 13, 1227-1242.	3.4	16
63	Is the Noble Gas-Based Rate of Ocean Warming During the Younger Dryas Overestimated?. <i>Geophysical Research Letters</i> , 2019, 46, 5928-5936.	4.0	16
64	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
65	Response of atmospheric CO ₂ to the abrupt cooling event 8200 years ago. <i>Geophysical Research Letters</i> , 2014, 41, 604-609.	4.0	15
66	Atmospheric methane variability: Centennial-scale signals in the Last Glacial Period. <i>Global Biogeochemical Cycles</i> , 2017, 31, 575-590.	4.9	15
67	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
68	Changes in the Isotopic Signature of Atmospheric Nitrous Oxide and Its Global Average Source During the Last Three Millennia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 10,757.	3.3	15
69	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
70	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
71	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
72	Ice stratigraphy at the PÅkkitsoq ice margin, West Greenland, derived from gas records. <i>Journal of Glaciology</i> , 2009, 55, 411-421.	2.2	12

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73	N ₂ and O ₂ changes from the Last Glacial Maximum to the preindustrial â€” Part 1: Quantitative reconstruction of terrestrial and marine emissions using N ₂ and O ₂ stable isotopes in ice cores. <i>Biogeosciences</i> , 2019, 16, 3997-4021.	3.3	12
74	High-precision dual-inlet IRMS measurements of the stable isotopes of CO ₂ and the N ₂ / CO ₂ ratio from polar ice core samples. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3825-3837.	3.1	11
75	Widespread early Holocene deglaciation, Washington Land, northwest Greenland. <i>Quaternary Science Reviews</i> , 2020, 231, 106181.	3.0	10
76	Evolution of mean ocean temperature in Marine Isotope Stage 4. <i>Climate of the Past</i> , 2021, 17, 2273-2289.	3.4	10
77	In situ cosmogenic radiocarbon production and ice flow line modeling for an Antarctic blue ice area. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	6
78	Atmospheric Nitrous Oxide Variations on Centennial Time Scales During the Past Two Millennia. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006568.	4.9	6
79	Ice core evidence for atmospheric oxygen decline since the Mid-Pleistocene transition. <i>Science Advances</i> , 2021, 7, eabj9341.	10.3	6
80	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
81	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
82	Carbon cycle dynamics during episodes of rapid climate change. <i>Environmental Research Letters</i> , 2021, 16, 040201.	5.2	1
83	Millennial-scale Changes in Terrestrial and Marine Nitrous Oxide Emissions at the Onset and Termination of Marine Isotope Stage 4. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089110.	4.0	0