

J R McConnell

List of Publications by Year in descending order

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Version: 2024-02-01

147
papers

12,824
citations

30070

54
h-index

28297

105
g-index

208
all docs

208
docs citations

208
times ranked

13032
citing authors

#	ARTICLE	IF	CITATIONS
1	Shallow firn cores 1989–2019 in southwest Greenland's percolation zone reveal decreasing density and ice layer thickness after 2012. <i>Journal of Glaciology</i> , 2022, 68, 431-442.	2.2	12
2	No evidence for tephra in Greenland from the historic eruption of Vesuvius in 79 CE: implications for geochronology and paleoclimatology. <i>Climate of the Past</i> , 2022, 18, 45-65.	3.4	13
3	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
4	Black carbon dominated dust in recent radiative forcing on Rocky Mountain snowpacks. <i>Environmental Research Letters</i> , 2022, 17, 054045.	5.2	3
5	Lead isotopic fingerprinting of 250-years of industrial era pollution in Greenland ice. <i>Anthropocene</i> , 2022, 38, 100340.	3.3	8
6	Climatic, weather, and socio-economic conditions corresponding to the mid-17th-century eruption cluster. <i>Climate of the Past</i> , 2022, 18, 1083-1108.	3.4	11
7	Thallium Pollution in Europe Over the Twentieth Century Recorded in Alpine Ice: Contributions From Coal Burning and Cement Production. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	8
8	Volcanic stratospheric sulfur injections and aerosol optical depth during the Holocene (past 11,500 years) Tj ETQq0 0.0 rgBT /Overlock 10	9.9	44
9	Alpine Ice Core Evidence of a Large Increase in Vanadium and Molybdenum Pollution in Western Europe During the 20th Century. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033211.	3.3	10
10	Cryptotephra from the Icelandic Veivítn 1477 CE eruption in a Greenland ice core: confirming the dating of volcanic events in the 1450s CE and assessing the eruption's climatic impact. <i>Climate of the Past</i> , 2021, 17, 565-585.	3.4	18
11	Comprehensive Record of Volcanic Eruptions in the Holocene (11,000 years) From the WAIS Divide, Antarctica Ice Core. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD032855.	3.3	22
12	Causes of Enhanced Bromine Levels in Alpine Ice Cores During the 20th Century: Implications for Bromine in the Free European Troposphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034246.	3.3	6
13	Polar ice core organic matter signatures reveal past atmospheric carbon composition and spatial trends across ancient and modern timescales. <i>Journal of Glaciology</i> , 2021, 67, 1028-1042.	2.2	17
14	Improved estimates of preindustrial biomass burning reduce the magnitude of aerosol climate forcing in the Southern Hemisphere. <i>Science Advances</i> , 2021, 7, .	10.3	22
15	Anthropogenic Impacts on Tropospheric Reactive Chlorine Since the Preindustrial. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093808.	4.0	8
16	Abrupt Common Era hydroclimate shifts drive west Greenland ice cap change. <i>Nature Geoscience</i> , 2021, 14, 756-761.	12.9	9
17	Marine Aerosol Records of Arctic Sea Ice and Polynya Variability From New Ellesmere and Devon Island Firn Cores, Nunavut, Canada. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017205.	2.6	3
18	North Atlantic jet stream projections in the context of the past 1,250 years. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	20

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19	Hemispheric black carbon increase after the 13th-century Māori arrival in New Zealand. <i>Nature</i> , 2021, 598, 82-85.	27.8	20
20	Short-Term Meteorological and Environmental Signals Recorded in a Firn Core from a High-Accumulation Site on Plateau Laclavere, Antarctic Peninsula. <i>Geosciences (Switzerland)</i> , 2021, 11, 428.	2.2	4
21	Global ocean heat content in the Last Interglacial. <i>Nature Geoscience</i> , 2020, 13, 77-81.	12.9	31
22	The magnitude and impact of the 431 CE Tierra Blanca Joven eruption of Ilopango, El Salvador. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26061-26068.	7.1	30
23	Snowfall and Water Stable Isotope Variability in East Antarctica Controlled by Warm Synoptic Events. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032863.	3.3	15
24	Reply to Strunz and Braeckel: Agricultural failures logically link historical events to extreme climate following the 43 BCE Okmok eruption. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32209-32210.	7.1	1
25	Hydrology of a Perennial Firn Aquifer in Southeast Greenland: An Overview Driven by Field Data. <i>Water Resources Research</i> , 2020, 56, e2019WR026348.	4.2	18
26	Cadmium Pollution From Zinc Smelters up to Fourfold Higher Than Expected in Western Europe in the 1980s as Revealed by Alpine Ice. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087537.	4.0	13
27	Extreme climate after massive eruption of Alaska's Okmok volcano in 43 BCE and effects on the late Roman Republic and Ptolemaic Kingdom. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15443-15449.	7.1	57
28	Stable water isotopes and accumulation rates in the Union Glacier region, Ellsworth Mountains, West Antarctica, over the last 35 years. <i>Cryosphere</i> , 2020, 14, 881-904.	3.9	8
29	Smoking guns and volcanic ash: the importance of sparse tephras in Greenland ice cores. <i>Polar Research</i> , 2020, 39, .	1.6	14
30	Bipolar volcanic synchronization of abrupt climate change in Greenland and Antarctic ice cores during the last glacial period. <i>Climate of the Past</i> , 2020, 16, 1565-1580.	3.4	44
31	The pulse of a montane ecosystem: coupling between daily cycles in solar flux, snowmelt, transpiration, groundwater, and streamflow at Sagehen Creek and Independence Creek, Sierra Nevada, USA. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 5095-5123.	4.9	23
32	Pervasive Arctic lead pollution suggests substantial growth in medieval silver production modulated by plague, climate, and conflict. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14910-14915.	7.1	50
33	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
34	Stratospheric eruptions from tropical and extra-tropical volcanoes constrained using high-resolution sulfur isotopes in ice cores. <i>Earth and Planetary Science Letters</i> , 2019, 521, 113-119.	4.4	43
35	Method for Correcting Continuous Ice-Core Elemental Measurements for Under-Recovery. <i>Environmental Science & Technology</i> , 2019, 53, 5887-5894.	10.0	9
36	Lead and Antimony in Basal Ice From Col du Dome (French Alps) Dated With Radiocarbon: A Record of Pollution During Antiquity. <i>Geophysical Research Letters</i> , 2019, 46, 4953-4961.	4.0	41

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37	Climate Effects on Firn Permeability Are Preserved Within a Firn Column. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 830-837.	2.8	4
38	Industrial-era decline in subarctic Atlantic productivity. <i>Nature</i> , 2019, 569, 551-555.	27.8	56
39	Four-fold increase in solar forcing on snow in western U.S. burned forests since 1999. <i>Nature Communications</i> , 2019, 10, 2026.	12.8	57
40	Dust Transport to the Taylor Glacier, Antarctica, During the Last Interglacial. <i>Geophysical Research Letters</i> , 2019, 46, 2261-2270.	4.0	4
41	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
42	Greenland records of aerosol source and atmospheric lifetime changes from the Eemian to the Holocene. <i>Nature Communications</i> , 2018, 9, 1476.	12.8	74
43	Prokaryotes in the WAIS Divide ice core reflect source and transport changes between Last Glacial Maximum and the early Holocene. <i>Global Change Biology</i> , 2018, 24, 2182-2197.	9.5	22
44	Temperature and Snowfall in Western Queen Maud Land Increasing Faster Than Climate Model Projections. <i>Geophysical Research Letters</i> , 2018, 45, 1472-1480.	4.0	44
45	Temporally delineated sources of major chemical species in high Arctic snow. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3485-3503.	4.9	13
46	Alpine ice evidence of a three-fold increase in atmospheric iodine deposition since 1950 in Europe due to increasing oceanic emissions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12136-12141.	7.1	53
47	Abrupt ice-age shifts in southern westerly winds and Antarctic climate forced from the north. <i>Nature</i> , 2018, 563, 681-685.	27.8	108
48	Burning-derived vanillic acid in an Arctic ice core from Tunu, northeastern Greenland. <i>Climate of the Past</i> , 2018, 14, 1625-1637.	3.4	10
49	Nonlinear rise in Greenland runoff in response to post-industrial Arctic warming. <i>Nature</i> , 2018, 564, 104-108.	27.8	114
50	Incandescence-based single-particle method for black carbon quantification in lake sediment cores. <i>Limnology and Oceanography: Methods</i> , 2018, 16, 711-721.	2.0	5
51	Concomitant variability in high-latitude aerosols, water isotopes and the hydrologic cycle. <i>Nature Geoscience</i> , 2018, 11, 853-859.	12.9	39
52	Lead pollution recorded in Greenland ice indicates European emissions tracked plagues, wars, and imperial expansion during antiquity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5726-5731.	7.1	174
53	A Horizontal Ice Core From Taylor Glacier, Its Implications for Antarctic Climate History, and an Improved Taylor Dome Ice Core Time Scale. <i>Paleoceanography and Paleoclimatology</i> , 2018, 33, 778-794.	2.9	20
54	Ice core and climate reanalysis analogs to predict Antarctic and Southern Hemisphere climate changes. <i>Quaternary Science Reviews</i> , 2017, 155, 50-66.	3.0	38

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55	Holocene black carbon in Antarctica paralleled Southern Hemisphere climate. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6713-6728.	3.3	30
56	Atmospheric methane variability: Centennial-scale signals in the Last Glacial Period. <i>Global Biogeochemical Cycles</i> , 2017, 31, 575-590.	4.9	15
57	Reassessment of the Upper Fremont Glacier Ice-Core Chronologies by Synchronizing of Ice-Core-Water Isotopes to a Nearby Tree-Ring Chronology. <i>Environmental Science & Technology</i> , 2017, 51, 4230-4238.	10.0	37
58	Multidecadal trends in aerosol radiative forcing over the Arctic: Contribution of changes in anthropogenic aerosol to Arctic warming since 1980. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3573-3594.	3.3	70
59	Water isotope diffusion in the WAIS Divide ice core during the Holocene and last glacial. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 290-309.	2.8	33
60	New Zealand supereruption provides time marker for the Last Glacial Maximum in Antarctica. <i>Scientific Reports</i> , 2017, 7, 12238.	3.3	59
61	No Coincident Nitrate Enhancement Events in Polar Ice Cores Following the Largest Known Solar Storms. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11,900.	3.3	14
62	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
63	Observations of atmospheric chemical deposition to high Arctic snow. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 5775-5788.	4.9	38
64	Sea ice as a source of sea salt aerosol to Greenland ice cores: a model-based study. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 9417-9433.	4.9	38
65	Sea ice and pollution-modulated changes in Greenland ice core methanesulfonate and bromine. <i>Climate of the Past</i> , 2017, 13, 39-59.	3.4	28
66	A 21,000-year record of fluorescent organic matter markers in the WAIS Divide ice core. <i>Climate of the Past</i> , 2017, 13, 533-544.	3.4	30
67	Aromatic acids in a Eurasian Arctic ice core: a 2600-year proxy record of biomass burning. <i>Climate of the Past</i> , 2017, 13, 395-410.	3.4	23
68	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
69	Halogen-based reconstruction of Russian Arctic sea ice area from the Akademii Nauk ice core (Severnaya Zemlya). <i>Cryosphere</i> , 2016, 10, 245-256.	3.9	20
70	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
71	Boreal fire records in Northern Hemisphere ice cores: a review. <i>Climate of the Past</i> , 2016, 12, 2033-2059.	3.4	70
72	Annual Greenland accumulation rates (2009–2012) from airborne snow radar. <i>Cryosphere</i> , 2016, 10, 1739-1752.	3.9	73

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73	A flow cytometric method to measure prokaryotic records in ice cores: an example from the West Antarctic Ice Sheet Divide drilling site. <i>Journal of Glaciology</i> , 2016, 62, 655-673.	2.2	13
74	Five millennia of surface temperatures and ice core bubble characteristics from the WAIS Divide deep core, West Antarctica. <i>Paleoceanography</i> , 2016, 31, 416-433.	3.0	12
75	A Method for Continuous ²³⁹ Pu Determinations in Arctic and Antarctic Ice Cores. <i>Environmental Science & Technology</i> , 2016, 50, 7066-7073.	10.0	51
76	McCall Glacier record of Arctic climate change: Interpreting a northern Alaska ice core with regional water isotopes. <i>Quaternary Science Reviews</i> , 2016, 131, 274-284.	3.0	35
77	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
78	Elevation change of the Greenland Ice Sheet due to surface mass balance and firn processes, 1960–2014. <i>Cryosphere</i> , 2015, 9, 2009-2025.	3.9	73
79	Enhanced tropical methane production in response to iceberg discharge in the North Atlantic. <i>Science</i> , 2015, 348, 1016-1019.	12.6	118
80	The WAIS Divide deep ice core WD2014 chronology – Part 1: Methane synchronization (68 ± 31 ka BP) and the gas age–ice age difference. <i>Climate of the Past</i> , 2015, 11, 153-173.	3.4	172
81	Timing and climate forcing of volcanic eruptions for the past 2,500 years. <i>Nature</i> , 2015, 523, 543-549.	27.8	824
82	Multiradionuclide evidence for the solar origin of the cosmic-ray events of AD 774/5 and 993/4. <i>Nature Communications</i> , 2015, 6, 8611.	12.8	188
83	Greenland precipitation trends in a long-term instrumental climate context (1890–2012): evaluation of coastal and ice core records. <i>International Journal of Climatology</i> , 2015, 35, 303-320.	3.5	84
84	Fire in ice: two millennia of boreal forest fire history from the Greenland NEEM ice core. <i>Climate of the Past</i> , 2014, 10, 1905-1924.	3.4	99
85	High resolution measurements of carbon monoxide along a late Holocene Greenland ice core: evidence for in situ production. <i>Climate of the Past</i> , 2014, 10, 987-1000.	3.4	25
86	Transatlantic distribution of the Alaskan White River Ash. <i>Geology</i> , 2014, 42, 875-878.	4.4	116
87	Climate change and forest fires synergistically drive widespread melt events of the Greenland Ice Sheet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7964-7967.	7.1	122
88	Tropical Pacific Influence on the Source and Transport of Marine Aerosols to West Antarctica*. <i>Journal of Climate</i> , 2014, 27, 1343-1363.	3.2	21
89	Acidity decline in Antarctic ice cores during the Little Ice Age linked to changes in atmospheric nitrate and sea salt concentrations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 5640-5652.	3.3	16
90	Physical properties of the WAIS Divide ice core. <i>Journal of Glaciology</i> , 2014, 60, 1181-1198.	2.2	41

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91	Constraining the recent mass balance of Pine Island and Thwaites glaciers, West Antarctica, with airborne observations of snow accumulation. <i>Cryosphere</i> , 2014, 8, 1375-1392.	3.9	90
92	Extensive liquid meltwater storage in firn within the Greenland ice sheet. <i>Nature Geoscience</i> , 2014, 7, 95-98.	12.9	196
93	Centennial-scale changes in the global carbon cycle during the last deglaciation. <i>Nature</i> , 2014, 514, 616-619.	27.8	380
94	Insights from Antarctica on volcanic forcing during the Common Era. <i>Nature Climate Change</i> , 2014, 4, 693-697.	18.8	129
95	Seasonally resolved ice core records from West Antarctica indicate a sea ice source of sea salt aerosol and a biomass burning source of ammonium. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9168-9182.	3.3	29
96	WAIS Divide ice core suggests sustained changes in the atmospheric formation pathways of sulfate and nitrate since the 19th century in the extratropical Southern Hemisphere. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 5749-5769.	4.9	40
97	Ash from Changbaishan Millennium eruption recorded in Greenland ice: Implications for determining the eruption's timing and impact. <i>Geophysical Research Letters</i> , 2014, 41, 694-701.	4.0	91
98	Antarctic-wide array of high-resolution ice core records reveals pervasive lead pollution began in 1889 and persists today. <i>Scientific Reports</i> , 2014, 4, 5848.	3.3	84
99	Airborne radar and ice core observations of annual snow accumulation over Thwaites Glacier, West Antarctica confirm the spatiotemporal variability of global and regional atmospheric models. <i>Geophysical Research Letters</i> , 2013, 40, 3649-3654.	4.0	119
100	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
101	Greenland Ice Sheet Mass Balance Reconstruction. Part I: Net Snow Accumulation (1600-2009). <i>Journal of Climate</i> , 2013, 26, 3919-3934.	3.2	49
102	Retention and radiative forcing of black carbon in eastern Sierra Nevada snow. <i>Cryosphere</i> , 2013, 7, 365-374.	3.9	81
103	Comparison of water isotope-ratio determinations using two cavity ring-down instruments and classical mass spectrometry in continuous ice-core analysis. <i>Isotopes in Environmental and Health Studies</i> , 2013, 49, 387-398.	1.0	31
104	Southeast Greenland high accumulation rates derived from firn cores and ground-penetrating radar. <i>Annals of Glaciology</i> , 2013, 54, 322-332.	1.4	47
105	Evaluation of preindustrial to present-day black carbon and its albedo forcing from Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2607-2634.	4.9	125
106	Multi-model mean nitrogen and sulfur deposition from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): evaluation of historical and projected future changes. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7997-8018.	4.9	279
107	Two likely stratospheric volcanic eruptions in the 1450s C.E. found in a bipolar, subannually dated 800 year ice core record. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 7459-7466.	3.3	41
108	A new bipolar ice core record of volcanism from WAIS Divide and NEEM and implications for climate forcing of the last 2000 years. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1151-1169.	3.3	217

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109	One hundred years of Arctic surface temperature variation due to anthropogenic influence. <i>Scientific Reports</i> , 2013, 3, 2645.	3.3	87
110	Changes in black carbon deposition to Antarctica from two high-resolution ice core records, 1850â€“2000 AD. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 4107-4115.	4.9	97
111	Variability of black carbon deposition to the East Antarctic Plateau, 1800â€“2000 AD. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3799-3808.	4.9	37
112	The Carrington event not observed in most ice core nitrate records. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	85
113	Transport of black carbon to polar regions: Sensitivity and forcing by black carbon. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	19
114	High-Resolution, Continuous Method for Measurement of Acidity in Ice Cores. <i>Environmental Science & Technology</i> , 2012, 46, 1659-1666.	10.0	24
115	Constraining recent lead pollution sources in the North Pacific using ice core stable lead isotopes. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	24
116	Atmospheric CO ₂ 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
117	Understanding the drivers for the 20th century change of hydrogen peroxide in Antarctic ice-cores. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	25
118	Multidecadal variability of atmospheric methane, 1000â€“1800 C.E.. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	78
119	Variation of accumulation rates over the last eight centuries on the East Antarctic Plateau derived from volcanic signals in ice cores. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	30
120	Greenland Ice Sheet surface mass balance 1870 to 2010 based on Twentieth Century Reanalysis, and links with global climate forcing. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	118
121	Identifying annual peaks in dielectric profiles with a selection curve. <i>Journal of Glaciology</i> , 2011, 57, 763-769.	2.2	9
122	Coupled Aerosol-Chemistryâ€“Climate Twentieth-Century Transient Model Investigation: Trends in Short-Lived Species and Climate Responses. <i>Journal of Climate</i> , 2011, 24, 2693-2714.	3.2	98
123	An 860 km surface mass-balance profile on the East Antarctic plateau derived by GPR. <i>Annals of Glaciology</i> , 2010, 51, 1-8.	1.4	84
124	Historical (1850â€“2000) gridded anthropogenic and biomass burning emissions of reactive gases and aerosols: methodology and application. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7017-7039.	4.9	2,020
125	Observed 20th century desert dust variability: impact on climate and biogeochemistry. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10875-10893.	4.9	355
126	New Directions: Historical black carbon and other ice core aerosol records in the Arctic for GCM evaluation. <i>Atmospheric Environment</i> , 2010, 44, 2665-2666.	4.1	40

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127	Sulfate sources and oxidation chemistry over the past 230 years from sulfur and oxygen isotopes of sulfate in a West Antarctic ice core. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	53
128	Ice core evidence for a 20th century decline of sea ice in the Bellingshausen Sea, Antarctica. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	80
129	Carbon and hydrogen isotopic composition of methane over the last 1000 years. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	4.9	88
130	Recent accumulation variability and change on the Antarctic Peninsula from the ERA40 reanalysis. <i>International Journal of Climatology</i> , 2008, 28, 1409-1422.	3.5	27
131	Delineation of carbonate dust, aluminous dust, and sea salt deposition in a Greenland glaciochemical array using positive matrix factorization. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	25
132	A doubling in snow accumulation in the western Antarctic Peninsula since 1850. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	148
133	Spatial and temporal variability in snow accumulation at the West Antarctic Ice Sheet Divide over recent centuries. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	65
134	Coal burning leaves toxic heavy metal legacy in the Arctic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12140-12144.	7.1	265
135	Rapid techniques for determining annual accumulation applied at Summit, Greenland. <i>Journal of Glaciology</i> , 2008, 54, 839-845.	2.2	23
136	20th-Century doubling in dust archived in an Antarctic Peninsula ice core parallels climate change and desertification in South America. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5743-5748.	7.1	206
137	20th-Century Industrial Black Carbon Emissions Altered Arctic Climate Forcing. <i>Science</i> , 2007, 317, 1381-1384.	12.6	562
138	An overview of snow photochemistry: evidence, mechanisms and impacts. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4329-4373.	4.9	554
139	Annual accumulation over recent centuries at four sites in central Greenland. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	30
140	Climate sensitivity of the century-scale hydrogen peroxide (H ₂ O ₂) record preserved in 23 ice cores from West Antarctica. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	46
141	Snowfall-Driven Growth in East Antarctic Ice Sheet Mitigates Recent Sea-Level Rise. <i>Science</i> , 2005, 308, 1898-1901.	12.6	230
142	Continuous Ice-Core Chemical Analyses Using Inductively Coupled Plasma Mass Spectrometry. <i>Environmental Science & Technology</i> , 2002, 36, 7-11.	10.0	189
143	A 250-year high-resolution record of Pb flux and crustal enrichment in central Greenland. <i>Geophysical Research Letters</i> , 2002, 29, 45-1-45-4.	4.0	71
144	Local to regional-scale variability of annual net accumulation on the Greenland ice sheet from PARCA cores. <i>Journal of Geophysical Research</i> , 2001, 106, 33839-33851.	3.3	106

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145	Changes in Greenland ice sheet elevation attributed primarily to snow accumulation variability. <i>Nature</i> , 2000, 406, 877-879.	27.8	76
146	Interannual variations of snow accumulation on the Greenland Ice Sheet (1985-1996): new observations versus model predictions. <i>Journal of Geophysical Research</i> , 2000, 105, 4039-4046.	3.3	54
147	A lumped parameter model for the atmosphere-to-snow transfer function for hydrogen peroxide. <i>Journal of Geophysical Research</i> , 1997, 102, 26809-26818.	3.3	21