Eric J Steig

List of Publications by Year
in descending order

177 papers	18,484 citations	13865 67 h-index	13771 129 g-index
216 all docs	216 docs citations	216 times ranked	14357 citing authors

#	Article	IF	Citations
1	Holocene climate variability. Quaternary Research, 2004, 62, 243-255.	1.7	1,994
2	Continental-scale temperature variability during the past two millennia. Nature Geoscience, 2013, 6, 339-346.	12.9	954
3	Holocene thermal maximum in the western Arctic (0â€“180Â°W). Quaternary Science Reviews, 2004, 23, 529-560.	3.0	720
4	Warming of the Antarctic ice-sheet surface since the 1957 International Geophysical Year. Nature, 2009, 457, 459-462.	27.8	620
5	Centennial-scale changes in the global carbon cycle during the last deglaciation. Nature, 2014, 514, 616-619.	27.8	380
6	ESTIMATING RATES OF DENUDATION USING COSMOGENIC ISOTOPE ABUNDANCES IN SEDIMENT. Earth Surface Processes and Landforms, 1996, 21, 125-139.	2.5	349
7	A Review of Antarctic Surface Snow Isotopic Composition: Observations, Atmospheric Circulation, and Isotopic Modeling*. Journal of Climate, 2008, 21, 3359-3387.	3.2	344
8	Strong Sensitivity of Pine Island Ice-Shelf Melting to Climatic Variability. Science, 2014, 343, 174-178.	12.6	333
9	Evidence for substantial accumulation rate variability in Antarctica during the Holocene, through synchronization of CO 2 in the Taylor Dome, Dome C and DML ice cores. Earth and Planetary Science Letters, 2004, 224, 45-54.	4.4	331
10	Winter warming in West Antarctica caused by central tropical Pacific warming. Nature Geoscience, 2011, 4, 398-403.	12.9	328
11	Dynamics of Recent Climate Change in the Arctic. Science, 2002, 297, 1497-1502.	12.6	327
12	Tropical forcing of the recent rapid Arctic warming in northeastern Canada and Greenland. Nature, 2014, 509, 209-212.	27.8	317
13	Precise interpolar phasing of abrupt climate change during the last ice age. Nature, 2015, 520, 661-665.	27.8	310
14	Synchronous Climate Changes in Antarctica and the North Atlantic. , 1998, 282, 92-95.		292
15	Holocene Climate Variability in Antarctica Based on 11 Ice-Core Isotopic Records. Quaternary Research, 2000, 54, 348-358.	1.7	291
16	A method for the analysis of ultra-trace levels of semi-volatile and non-volatile organic compounds in snow and application to a Greenland snow pit. Polar Science, 2008, 2, 251-266.	1.2	291
17	Influence of high-latitude atmospheric circulation changes on summertime Arctic seaÂice. Nature Climate Change, 2017, 7, 289-295.	18.8	290
18	Onset of deglacial warming in West Antarctica driven by local orbital forcing. Nature, 2013, 500, 440-444.	27.8	276

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19	On the origin and timing of rapid changes in atmospheric methane during the Last Glacial Period. Global Biogeochemical Cycles, 2000, 14, 559-572.	4.9	270
20	A global multiproxy database for temperature reconstructions of the Common Era. Scientific Data, 2017, 4, 170088.	5.3	268
21	Assessing recent trends in high-latitude Southern Hemisphere surface climate. Nature Climate Change, 2016, 6, 917-926.	18.8	253
22	Inter-hemispheric temperature variability over the past millennium. Nature Climate Change, 2014, 4, 362-367.	18.8	240
23	Influence of the Tropics on the Southern Annular Mode. Journal of Climate, 2012, 25, 6330-6348.	3.2	234
24	Anthropogenic Impacts on Nitrogen Isotopes of Ice-Core Nitrate. Science, 2009, 324, 1288-1288.	12.6	208
25	Millennial-scale storminess variability in the northeastern United States during the Holocene epoch. Nature, 2002, 419, 821-824.	27.8	183
26	The WAIS Divide deep ice core WD2014 chronology â€“ Part 1: Methane synchronization (68â€“31 ka BP) and the gas ageâ€“ice age difference. Climate of the Past, 2015, 11, 153-173.	3.4	172
27	PALEOCLIMATE:Mid-Holocene Climate Change. Science, 1999, 286, 1485-1487.	12.6	170
28	The last millennium climate reanalysis project: Framework and first results. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6745-6764.	3.3	166
29	West Antarctic ice loss influenced by internal climate variability and anthropogenic forcing. Nature Geoscience, 2019, 12, 718-724.	12.9	157
30	Tropical forcing of Circumpolar Deep Water Inflow and outlet glacier thinning in the Amundsen Sea Embayment, West Antarctica. Annals of Glaciology, 2012, 53, 19-28.	1.4	146
31	Antarctic climate variability on regional and continental scales over the last 2000Âyears. Climate of the Past, 2017, 13, 1609-1634.	3.4	145
32	Entrainment at cold glacier beds. Geology, 2000, 28, 351.	4.4	144
33	Recent climate and ice-sheet changes in West Antarctica compared with the past 2,000 years. Nature Geoscience, 2013, 6, 372-375.	12.9	140
34	Measurement of SLAP2 and GISP Î´¹⁷O and proposed VSMOWâ€“SLAP normalization for Î´¹⁷O and ¹⁷O_{excess}. Rapid Communications in Mass Spectrometry, 2013, 27, 582-590.	1.5	136
35	Seasonal Precipitation Timing and Ice Core Records. Science, 1994, 266, 1885-1886.	12.6	130
36	Timing of millennial-scale climate change at Siple Dome, West Antarctica, during the last glacial period. Quaternary Science Reviews, 2005, 24, 1333-1343.	3.0	130

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37	Decadal Ocean Forcing and Antarctic Ice Sheet Response: Lessons from the Amundsen Sea. , 2016, 29, 106-117.		122
38	Fingerprints of internal drivers of Arctic sea ice loss in observations and model simulations. Nature Geoscience, 2019, 12, 28-33.	12.9	121
39	Seasonal variations in N and O isotopes of nitrate in snow at Summit, Greenland: Implications for the study of nitrate in snow and ice cores. Journal of Geophysical Research, 2004, 109, .	3.3	120
40	<scp>PRYSM</scp>: An openâ€source framework for PRoxY System Modeling, with applications to oxygenâ€isotope systems. Journal of Advances in Modeling Earth Systems, 2015, 7, 1220-1247.	3.8	120
41	Last Millennium Reanalysis with an expanded proxy database and seasonal proxy modeling. Climate of the Past, 2019, 15, 1251-1273.	3.4	120
42	Airborneâ€radar and iceâ€core observations of annual snow accumulation over Thwaites Glacier, West Antarctica confirm the spatiotemporal variability of global and regional atmospheric models. Geophysical Research Letters, 2013, 40, 3649-3654.	4.0	119
43	The spatial extent and dynamics of the Antarctic Cold Reversal. Nature Geoscience, 2016, 9, 51-55.	12.9	118
44	How much, how fast?: A science review and outlook for research on the instability of Antarctica's Thwaites Glacier in the 21st century. Global and Planetary Change, 2017, 153, 16-34.	3.5	118
45	Assimilation of Time-Averaged Pseudoproxies for Climate Reconstruction. Journal of Climate, 2014, 27, 426-441.	3.2	110
46	Wisconsinan and Holocene Climate History from an Ice Core at Taylor Dome, Western Ross Embayment, Antarctica. Geografiska Annaler, Series A: Physical Geography, 2000, 82A, 213-235.	1.5	109
47	Global atmospheric teleconnections during Dansgaardâ€“Oeschger events. Nature Geoscience, 2017, 10, 36-40.	12.9	108
48	Abrupt ice-age shifts in southern westerly winds and Antarctic climate forced from the north. Nature, 2018, 563, 681-685.	27.8	108
49	Deglacial temperature history of West Antarctica. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14249-14254.	7.1	105
50	Climate Change During the Last Deglaciation in Antarctica. Science, 1996, 272, 1636-1638.	12.6	104
51	Wisconsinan and holocene climate history from an ice core at taylor dome, western ross embayment, antarctica. Geografiska Annaler, Series A: Physical Geography, 2000, 82, 213-235.	1.5	103
52	Measurements of Past Ice Sheet Elevations in Interior West Antarctica. Science, 1999, 286, 276-280.	12.6	101
53	Ice Age storm trajectories inferred from radar stratigraphy at Taylor Dome, Antarctica. Geophysical Research Letters, 1998, 25, 3383-3386.	4.0	100
54	Temperature Change on the Antarctic Peninsula Linked to the Tropical Pacific*. Journal of Climate, 2013, 26, 7570-7585.	3.2	98

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55	Calibrated high-precision ¹⁷O-excess measurements using cavity ring-down spectroscopy with laser-current-tuned cavity resonance. Atmospheric Measurement Techniques, 2014, 7, 2421-2435.	3.1	97
56	Extinction patterns, Î´18 O trends, and magnetostratigraphy from a southern high-latitude Cretaceousâ€“Paleogene section: Links with Deccan volcanism. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 350-352, 180-188.	2.3	96
57	The Mt Logan Holoceneâ€”late Wisconsinan isotope record: tropical Pacificâ€”Yukon connections. Holocene, 2008, 18, 667-677.	1.7	94
58	Rock glacier dynamics and paleoclimatic implications. Geology, 1999, 27, 1131.	4.4	91
59	Recent Climate Variability in Antarctica from Satellite-Derived Temperature Data. Journal of Climate, 2004, 17, 1569-1583.	3.2	91
60	Constraining the recent mass balance of Pine Island and Thwaites glaciers, West Antarctica, with airborne observations of snow accumulation. Cryosphere, 2014, 8, 1375-1392.	3.9	90
61	Antarctic temperatures over the past two centuries from ice cores. Geophysical Research Letters, 2006, 33, .	4.0	88
62	Tropical teleconnection impacts on Antarctic climate changes. Nature Reviews Earth & Environment, 2021, 2, 680-698.	29.7	85
63	The Taylor Dome Antarctic 18O Record and Globally Synchronous Changes in Climate. Quaternary Research, 2001, 56, 289-298.	1.7	83
64	The Goldilocks dilemma: big ice, little ice, or â€œjust-rightâ€•ice in the Eastern Canadian Arctic. Quaternary Science Reviews, 2002, 21, 33-48.	3.0	83
65	Ice cores record significant 1940s Antarctic warmth related to tropical climate variability. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12154-12158.	7.1	82
66	Holocene hydrological cycle changes in the Southern Hemisphere documented in East Antarctic deuterium excess records. Climate Dynamics, 2001, 17, 503-513.	3.8	80
67	Nitrogen isotopes in ice core nitrate linked to anthropogenic atmospheric acidity change. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5808-5812.	7.1	77
68	Variable relationship between accumulation and temperature in West Antarctica for the past 31,000 years. Geophysical Research Letters, 2016, 43, 3795-3803.	4.0	74
69	Phase relationships between Antarctic and Greenland climate records. Annals of Glaciology, 2002, 35, 451-456.	1.4	73
70	Sea-ice-free Arctic during the Last Interglacial supports fast future loss. Nature Climate Change, 2020, 10, 928-932.	18.8	71
71	Isotopic diffusion in polar firn: implications for interpretation of seasonal climate parameters in ice-core records, with emphasis on central Greenland. Journal of Glaciology, 1998, 44, 273-284.	2.2	69
72	Abrupt climate change around 22ka on the Siple Coast of Antarctica. Quaternary Science Reviews, 2004, 23, 7-15.	3.0	69

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73	Large amplitude solar modulation cycles of10Be in Antarctica: Implications for atmospheric mixing processes and interpretation of the ice core record. Geophysical Research Letters, 1996, 23, 523-526.	4.0	67
74	Genetic variability of rock glaciers. Geografiska Annaler, Series A: Physical Geography, 1998, 80, 175-182.	1.5	66
75	Particulate and waterâ€soluble carbon measured in recent snow at Summit, Greenland. Geophysical Research Letters, 2007, 34, .	4.0	66
76	Changes in climate, ocean and ice-sheet conditions in the Ross embayment, Antarctica, at 6 ka. Annals of Glaciology, 1998, 27, 305-310.	1.4	65
77	Wisconsinan refugia and the glacial history of eastern Baffin Island, Arctic Canada: Coupled evidence from cosmogenic isotopes and lake sediments. Geology, 1998, 26, 835.	4.4	63
78	Triple waterâ€isotopologue record from WAIS Divide, Antarctica: Controls on glacialâ€interglacial changes in ¹⁷O_{excess} of precipitation. Journal of Geophysical Research D: Atmospheres, 2014, 119, 8741-8763.	3.3	62
79	Antarctic surface temperature and elevation during the Last Glacial Maximum. Science, 2021, 372, 1097-1101.	12.6	61
80	Isotopic diffusion in polar firn: implications for interpretation of seasonal climate parameters in ice-core records, with emphasis on central Greenland. Journal of Glaciology, 1998, 44, 273-284.	2.2	57
81	Measurements and modeling of Î”¹⁷O of nitrate in snowpits from Summit, Greenland. Journal of Geophysical Research, 2008, 113, .	3.3	55
82	Seasonal climate information preserved in West Antarctic ice core water isotopes: relationships to temperature, large-scale circulation, and sea ice. Climate Dynamics, 2012, 39, 1841-1857.	3.8	54
83	Sulfate sources and oxidation chemistry over the past 230 years from sulfur and oxygen isotopes of sulfate in a West Antarctic ice core. Journal of Geophysical Research, 2010, 115, .	3.3	53
84	An automated approach for annual layer counting in ice cores. Climate of the Past, 2012, 8, 1881-1895.	3.4	53
85	Rate of mass loss from the Greenland Ice Sheet will exceed Holocene values this century. Nature, 2020, 586, 70-74.	27.8	53
86	Decoding the dipstick: Thickness of Siple Dome, West Antarctica, at the Last Glacial Maximum. Geology, 2005, 33, 281.	4.4	52
87	Fractional crystallization in granites of the Sierra Nevada: How important is it?. Geology, 1993, 21, 587.	4.4	51
88	High-resolution ice cores from US ITASE (West Antarctica): development and validation of chronologies and determination of precision and accuracy. Annals of Glaciology, 2005, 41, 77-84.	1.4	48
89	Low-gradient outlet glaciers (ice streams?) drained the Laurentide ice sheet. Geology, 2001, 29, 343.	4.4	45
90	Spatial and temporal variability of Antarctic ice sheet microwave brightness temperatures. Geophysical Research Letters, 2002, 29, 25-1-25-4.	4.0	45

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91	Climate reconstruction using data assimilation of water isotope ratios from ice cores. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1545-1568.	3.3	45
92	The Ross Sea Dipole â€“ temperature, snow accumulation and sea ice variability in the Ross Sea region, Antarctica, over the past 2700Âyears. Climate of the Past, 2018, 14, 193-214.	3.4	44
93	Recent summer warming in northwestern Canada exceeds the Holocene thermal maximum. Nature Communications, 2019, 10, 1631.	12.8	44
94	Glacial/interglacial changes in the isotopes of nitrate from the Greenland Ice Sheet Project 2 (GISP2) ice core. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	4.9	42
95	Analysis of atmospheric inputs of nitrate to a temperate forest ecosystem from Î”¹⁷O isotope ratio measurements. Geophysical Research Letters, 2011, 38, .	4.0	42
96	A 700 year record of Southern Hemisphere extratropical climate variability. Annals of Glaciology, 2004, 39, 127-132.	1.4	41
97	Influence of West Antarctic Ice Sheet collapse on Antarctic surface climate. Geophysical Research Letters, 2015, 42, 4862-4868.	4.0	41
98	Southern Hemisphere climate variability forced by Northern Hemisphere ice-sheet topography. Nature, 2018, 554, 351-355.	27.8	41
99	The geochemical record in rock glaciers. Geografiska Annaler, Series A: Physical Geography, 1998, 80, 277-286.	1.5	40
100	Major perturbation in sulfur cycling at the Triassic-Jurassic boundary. Geology, 2009, 37, 835-838.	4.4	40
101	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. Atmospheric Chemistry and Physics, 2014, 14, 5749-5769.	4.9	40
102	Southern Ocean deep convection as a driver of Antarctic warming events. Geophysical Research Letters, 2016, 43, 2192-2199.	4.0	40
103	The 1500 m South Pole ice core: recovering a 40 ka environmental record. Annals of Glaciology, 2014, 55, 137-146.	1.4	39
104	Concomitant variability in high-latitude aerosols, water isotopes and the hydrologic cycle. Nature Geoscience, 2018, 11, 853-859.	12.9	39
105	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
106	Improved methodologies for continuous-flow analysis of stable water isotopes in ice cores. Atmospheric Measurement Techniques, 2017, 10, 617-632.	3.1	37
107	Characterization of Millennial-Scale Climate Variability. Journal of Climate, 2004, 17, 1929-1944.	3.2	35
108	Ground ice recharge via brine transport in frozen soils of Victoria Valley, Antarctica: Insights from modeling Î´18O and Î´D profiles. Geochimica Et Cosmochimica Acta, 2010, 74, 435-448.	3.9	35

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109	Water isotope diffusion in the WAIS Divide ice core during the Holocene and last glacial. Journal of Geophysical Research F: Earth Surface, 2017, 122, 290-309.	2.8	33
110	Using characteristic times to assess whether stable isotopes in polar snow can be reversibly deposited. Annals of Glaciology, 2002, 35, 118-124.	1.4	32
111	Ice sheet record of recent seaâ€ice behavior and polynya variability in the Amundsen Sea, West Antarctica. Journal of Geophysical Research: Oceans, 2013, 118, 118-130.	2.6	32
112	Climate models can correctly simulate the continuum of global-average temperature variability. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8728-8733.	7.1	32
113	Evidence for the stability of the West Antarctic Ice Sheet divide for 1.4 million years. Nature Communications, 2016, 7, 10325.	12.8	31
114	Routine highâ€precision analysis of triple waterâ€isotope ratios using cavity ringâ€down spectroscopy. Rapid Communications in Mass Spectrometry, 2016, 30, 2059-2069.	1.5	29
115	Non-climate influences on stable isotopes at Taylor Mouth, Antarctica. Journal of Glaciology, 2005, 51, 248-258.	2.2	28
116	Influence of local photochemistry on isotopes of nitrate in Greenland snow. Geophysical Research Letters, 2008, 35, .	4.0	28
117	Twentieth-century warming revives the world's northernmost lake. Geology, 2012, 40, 1003-1006.	4.4	27
118	West Antarctica's sensitivity to natural and humanâ€forced climate change over the Holocene. Journal of Quaternary Science, 2013, 28, 40-48.	2.1	27
119	Using the sunspot cycle to date ice cores. Geophysical Research Letters, 1998, 25, 163-166.	4.0	26
120	Modeled methanesulfonic acid (MSA) deposition in Antarctica and its relationship to sea ice. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	26
121	West Antarctic Ice Sheet Elevation Changes. Antarctic Research Series, 0, , 75-90.	0.2	26
122	A multimillion-year-old record of Greenland vegetation and glacial history preserved in sediment beneath 1.4 km of ice at Camp Century. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	26
123	Timing is everything in a game of two hemispheres. Nature, 1998, 394, 717-718.	27.8	25
124	Isotopic ratios in gasâ€phase HNO₃ and snow nitrate at Summit, Greenland. Journal of Geophysical Research, 2009, 114, .	3.3	24
125	Seasonal and spatial variations of ¹⁷O_{excess} and d_{excess} in Antarctic precipitation: Insights from an intermediate complexity isotope model. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,215.	3.3	24
126	Glaciological and climatic significance of Hercules Dome, Antarctica: An optimal site for deep ice core drilling. Journal of Geophysical Research, 2005, 110, .	3.3	23

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127	An overview of air-snow exchange at Summit, Greenland: Recent experiments and findings. Atmospheric Environment, 2007, 41, 4995-5006.	4.1	23
128	High-resolution ice-core stable-isotopic records from Antarctica: towards interannual climate reconstruction. Annals of Glaciology, 2005, 41, 63-70.	1.4	22
129	An observed negative trend in West Antarctic accumulation rates from 1975 to 2010: Evidence from new observed and simulated records. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4205-4216.	3.3	22
130	The Relationship between Snow Accumulation at Mt. Logan, Yukon, Canada, and Climate Variability in the North Pacific. Journal of Climate, 2004, 17, 4724-4739.	3.2	21
131	Ice-core net snow accumulation and seasonal snow chemistry at a temperate-glacier site: Mount Waddington, southwest British Columbia, Canada. Journal of Glaciology, 2012, 58, 1165-1175.	2.2	21
132	Tropical Pacific Influence on the Source and Transport of Marine Aerosols to West Antarctica*. Journal of Climate, 2014, 27, 1343-1363.	3.2	21
133	The southâ€“north connection. Nature, 2006, 444, 152-153.	27.8	20
134	A Horizontal Ice Core From Taylor Glacier, Its Implications for Antarctic Climate History, and an Improved Taylor Dome Ice Core Time Scale. Paleoceanography and Paleoclimatology, 2018, 33, 778-794.	2.9	20
135	Greenland temperature and precipitation over the last 20â€‰000 years using data assimilation. Climate of the Past, 2020, 16, 1325-1346.	3.4	19
136	Late-Holocene climate evolution at the WAIS Divide site, West Antarctica: bubble number-density estimates. Journal of Glaciology, 2011, 57, 629-638.	2.2	18
137	The heat is on in Antarctica. Nature Geoscience, 2013, 6, 87-88.	12.9	18
138	On the origin of the occasional spring nitrate peak in Greenland snow. Atmospheric Chemistry and Physics, 2014, 14, 13361-13376.	4.9	18
139	Continuous-Flow Analysis of Î´17O, Î´18O, and Î´D of H2O on an Ice Core from the South Pole. Frontiers in Earth Science, 2021, 9, .	1.8	18
140	The SP19 chronology for the South Pole Ice Core â€“ Part 2: gas chronology, Î”age, and smoothing of atmospheric records. Climate of the Past, 2020, 16, 2431-2444.	3.4	16
141	Nonequilibrium Fractionation During Ice Cloud Formation in iCAM5: Evaluating the Common Parameterization of Supersaturation as a Linear Function of Temperature. Journal of Advances in Modeling Earth Systems, 2019, 11, 3777-3793.	3.8	15
142	Ice Cores from the St. Elias Mountains, Yukon, Canada: Their Significance for Climate, Atmospheric Composition and Volcanism in the North Pacific Region. Arctic, 2014, 67, 35.	0.4	15
143	Glacier change along West Antarctica's Marie Byrd Land Sector and links to inter-decadal atmosphereâ€“ocean variability. Cryosphere, 2018, 12, 2461-2479.	3.9	14
144	Reconstructing annual and seasonal climatic responses from volcanic events since A.D. 1270 as recorded in the deuterium signal from the Greenland Ice Sheet Project 2 ice core. Journal of Geophysical Research, 1997, 102, 19683-19694.	3.3	13

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145	How well can we parameterize past accumulation rates in polar ice sheets?. Annals of Glaciology, 1997, 25, 418-422.	1.4	13
146	PALEOCLIMATE: No Two Latitudes Alike. Science, 2001, 293, 2015-2016.	12.6	13
147	A link between microwave extinction length, firn thermal diffusivity, and accumulation rate in West Antarctica. Journal of Geophysical Research, 2007, 112, .	3.3	13
148	Seasonally Resolved Holocene Sea Ice Variability Inferred From South Pole Ice Core Chemistry. Geophysical Research Letters, 2021, 48, e2020GL091602.	4.0	12
149	The Connection between Ice Dynamics and Paleoclimate from Ice Cores: A Study of Taylor Dome, Antarctica. , 1993, , 499-516.		12
150	Strengthening Southern Hemisphere Westerlies and Amundsen Sea Low Deepening Over the 20th Century Revealed by Proxyâ€Ðata Assimilation. Geophysical Research Letters, 2021, 48, e2021GL095999.	4.0	12
151	Temporal co-variation of surface and microwave brightness temperatures in Antarctica, with implications for the observation of surface temperature variability using satellite data. Annals of Glaciology, 2004, 39, 346-350.	1.4	11
152	Atmospheric dynamics drive most interannual U.S. droughts over the last millennium. Science Advances, 2020, 6, eaay7268.	10.3	11
153	Improving temperature reconstructions from ice-core water-isotope records. Climate of the Past, 2022, 18, 1321-1368.	3.4	11
154	A Generalized Approach to Estimating Diffusion Length of Stable Water Isotopes From Iceâ€Core Data. Journal of Geophysical Research F: Earth Surface, 2018, 123, 2377-2391.	2.8	10
155	An alternative model for the geomorphic history of pre-Wisconsinan surfaces on eastern Baffin Island: a comment on Bierman et al. (Geomorphology 25 (1999) 25â€“39). Geomorphology, 2001, 39, 251-254.	2.6	9
156	The prescience of paleoclimatology and the future of the Antarctic ice sheet. Nature Communications, 2018, 9, 2730.	12.8	9
157	How 17O excess in clumped isotope reference-frame materials and ETH standards affects reconstructed temperature. Chemical Geology, 2021, 563, 120059.	3.3	9
158	The geomorphic and climatic significance of rock glaciers. Geografiska Annaler, Series A: Physical Geography, 1998, 80, 173-174.	1.5	8
159	Advection and non-climate impacts on the South Pole Ice Core. Climate of the Past, 2020, 16, 819-832.	3.4	8
160	Core handling, transportation and processing for the South Pole ice core (SPICEcore) project. Annals of Glaciology, 2021, 62, 118-130.	1.4	8
161	Major element evolution of basaltic magmas: a comparison of the information in CMAS and ALFE projections. Contributions To Mineralogy and Petrology, 1989, 101, 318-325.	3.1	6
162	How well can we parameterize past accumulation rates in polar ice sheets?. Annals of Glaciology, 1997, 25, 418-422.	1.4	6

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163	Sprucing Up Greenland. Science, 2008, 320, 1595-1596.	12.6	6
164	Evaluating the Antarctic Observational Network with the Antarctic Mesoscale Prediction System (AMPS). Monthly Weather Review, 2014, 142, 3847-3859.	1.4	6
165	A Multidecadal-Scale Tropically Driven Global Teleconnection over the Past Millennium and Its Recent Strengthening. Journal of Climate, 2021, 34, 2549-2565.	3.2	6
166	Reconstruction of Temperature, Accumulation Rate, and Layer Thinning From an Ice Core at South Pole, Using a Statistical Inverse Method. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033300.	3.3	6
167	Brief but warm Antarctic summer. Nature, 2012, 489, 39-40.	27.8	5
168	How fast will the Antarctic ice sheet retreat?. Science, 2019, 364, 936-937.	12.6	5
169	Numerical experiments on firn isotope diffusion with the Community Firn Model. Journal of Glaciology, 2021, 67, 450-472.	2.2	5
170	Antarctic Ice Sheet Elevation Impacts on Water Isotope Records During the Last Interglacial. Geophysical Research Letters, 2021, 48, e2020GL091412.	4.0	5
171	Accumulation Rate Measurements at Taylor Dome, East Antarctica: Techniques and Strategies for Mass Balance Measurements in Polar Environments. Geografiska Annaler, Series A: Physical Geography, 1999, 81, 683-694.	1.5	5
172	Geophysics and Thermodynamics at South Pole Lake Indicate Stability and a Regionally Thawed Bed. Geophysical Research Letters, 2022, 49, .	4.0	4
173	Another look at An Inconvenient Truth. Geo Journal, 2007, 70, 5-9.	3.1	3
174	Commentary on duplicative publications. Quaternary Research, 2007, 68, 1-1.	1.7	2
175	Cooling in the Antarctic. Nature, 2016, 535, 358-359.	27.8	2
176	Preliminary results from a new high-resolution ice core from Combatant Col, Mount Waddington, British Columbia, Canada. Quaternary International, 2013, 310, 229.	1.5	0
177	CAMP CENTURY ICE CORE BASAL SEDIMENTS CONTAIN A MULTI-MILLION-YEAR RECORD OF ICE-COVER AND VEGETATION IN NORTHWESTERN GREENLAND. , 2020, , .		0