Lonnie G Thompson

List of Publications by Year
in descending order

55 papers	10,635 citations	109137 35 h-index	155451 55 g-index
57 all docs	57 docs citations	57 times ranked	7883 citing authors

#	Article	IF	Citations
1	Different glacier status with atmospheric circulations in Tibetan Plateau and surroundings. Nature Climate Change, 2012, 2, 663-667.	8.1	1,979
2	Tropical Climate Instability: The Last Glacial Cycle from a Qinghai-Tibetan Ice Core. Science, 1997, 276, 1821-1825.	6.0	993
3	A High-Resolution Millennial Record of the South Asian Monsoon from Himalayan Ice Cores. Science, 2000, 289, 1916-1919.	6.0	817
4	Late Glacial Stage and Holocene Tropical Ice Core Records from Huascaran, Peru. Science, 1995, 269, 46-50.	6.0	772
5	Kilimanjaro Ice Core Records: Evidence of Holocene Climate Change in Tropical Africa. Science, 2002, 298, 589-593.	6.0	715
6	Recent Third Poleâ€™s Rapid Warming Accompanies Cryospheric Melt and Water Cycle Intensification and Interactions between Monsoon and Environment: Multidisciplinary Approach with Observations, Modeling, and Analysis. Bulletin of the American Meteorological Society, 2019, 100, 423-444.	1.7	590
7	Holocene--Late Pleistocene Climatic Ice Core Records from Qinghai-Tibetan Plateau. Science, 1989, 246, 474-477.	6.0	444
8	Abrupt tropical climate change: Past and present. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10536-10543.	3.3	393
9	The Little Ice Age as Recorded in the Stratigraphy of the Tropical Quelccaya Ice Cap. Science, 1986, 234, 361-364.	6.0	388
10	A 1500-Year Record of Tropical Precipitation in Ice Cores from the Quelccaya Ice Cap, Peru. Science, 1985, 229, 971-973.	6.0	368
11	Reconstructed changes in Arctic sea ice over the past 1,450 years. Nature, 2011, 479, 509-512.	13.7	292
12	Ice core evidence for climate change in the Tropics: implications for our future. Quaternary Science Reviews, 2000, 19, 19-35.	1.4	274
13	Annually Resolved Ice Core Records of Tropical Climate Variability over the Past ~1800 Years. Science, 2013, 340, 945-950.	6.0	216
14	Climatological significance of Î´18O in north Tibetan ice cores. Journal of Geophysical Research, 1996, 101, 29531-29537.	3.3	170
15	Mass loss on Himalayan glacier endangers water resources. Geophysical Research Letters, 2008, 35, .	1.5	169
16	Climate variation since the Last Interglaciation recorded in the Guliya ice core. Science in China Series D: Earth Sciences, 1997, 40, 662-668.	0.9	152
17	Holocene climate variability archived in the Puruogangri ice cap on the central Tibetan Plateau. Annals of Glaciology, 2006, 43, 61-69.	2.8	132
18	Tropical glaciers, recorders and indicators of climate change, are disappearing globally. Annals of Glaciology, 2011, 52, 23-34.	2.8	120

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19	Oxygen isotope changes in tropical ice, Quelccaya, Peru. Journal of Geophysical Research, 1989, 94, 1187-1194.	3.3	117
20	Modeling Î´ 18 O in precipitation over the tropical Americas: 2. Simulation of the stable isotope signal in Andean ice cores. Journal of Geophysical Research, 2003, 108, .	3.3	115
21	Ice core evidence for an explosive tropical volcanic eruption 6 years preceding Tambora. Journal of Geophysical Research, 1991, 96, 17361-17366.	3.3	111
22	Low latitude ice cores record Pacific sea surface temperatures. Geophysical Research Letters, 2003, 30, .	1.5	109
23	Local to regional-scale variability of annual net accumulation on the Greenland ice sheet from PARCA cores. Journal of Geophysical Research, 2001, 106, 33839-33851.	3.3	106
24	Ice core records of climate variability on the Third Pole with emphasis on the Guliya ice cap, western Kunlun Mountains. Quaternary Science Reviews, 2018, 188, 1-14.	1.4	97
25	Climate variability during the last 1000Âyears inferred from Andean ice cores: A review of methodology and recent results. Palaeogeography, Palaeoclimatology, Palaeoecology, 2009, 281, 229-241.	1.0	88
26	Tropical ice core records: evidence for asynchronous glaciation on Milankovitch timescales. Journal of Quaternary Science, 2005, 20, 723-733.	1.1	84
27	Forcing of the Asian monsoon on the Tibetan Plateau: Evidence from high-resolution ice core and tropical coral records. Journal of Geophysical Research, 2005, 110, .	3.3	80
28	Glacier ice archives nearly 15,000-year-old microbes and phages. Microbiome, 2021, 9, 160.	4.9	59
29	Widespread pollution of the South American atmosphere predates the industrial revolution by 240 y. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2349-2354.	3.3	57
30	A 1000 year history of atmospheric sulfate concentrations in southern Asia as recorded by a Himalayan ice core. Geophysical Research Letters, 2007, 34, .	1.5	54
31	Recording of El NiÃ±o in ice core Î´18O records from Nevado HuascarÃ¡n, Peru. Journal of Geophysical Research, 1999, 104, 31053-31065.	3.3	48
32	Cold air incursions, Î´¹⁸O variability, and monsoon dynamics associated with snow days at Quelccaya Ice Cap, Peru. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7467-7487.	1.2	47
33	Glaciological Investigations of the Tropical Quelccaya Ice Cap, Peru. Journal of Glaciology, 1980, 25, 69-84.	1.1	43
34	Early atmospheric contamination on the top of the Himalayas since the onset of the European Industrial Revolution. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3967-3973.	3.3	41
35	Central Tibetan Plateau atmospheric trace metals contamination: A 500-year record from the Puruogangri ice core. Science of the Total Environment, 2017, 601-602, 1349-1363.	3.9	36
36	Tropical West Pacific moisture dynamics and climate controls on rainfall isotopic ratios in southern Papua, Indonesia. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2222-2245.	1.2	33

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37	Temperature signals of ice core and speleothem isotopic records from Asian monsoon region as indicated by precipitation Î´18O. Earth and Planetary Science Letters, 2021, 554, 116665.	1.8	31
38	ENSO Events Recorded in the Guliya Ice Core. Climatic Change, 2000, 47, 401-409.	1.7	30
39	Geophysical Investigations Of The Tropical Quelccaya Ice Cap, Peru. Journal of Glaciology, 1982, 28, 57-69.	1.1	27
40	Large variability of trace element mass fractions determined by ICP-SFMS in ice core samples from worldwide high altitude glaciers. Applied Geochemistry, 2014, 47, 109-121.	1.4	26
41	The impacts of warming on rapidly retreating high-altitude, low-latitude glaciers and ice core-derived climate records. Global and Planetary Change, 2021, 203, 103538.	1.6	25
42	Atmospheric depositions of natural and anthropogenic trace elements on the Guliya ice cap (northwestern Tibetan Plateau) during the last 340 years. Atmospheric Environment, 2018, 176, 91-102.	1.9	24
43	Thirty-year history of glacier melting in the Nepal Himalayas. Journal of Geophysical Research, 2006, 111, .	3.3	23
44	Impacts of Recent Warming and the 2015/2016 El NiÃ±o on Tropical Peruvian Ice Fields. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,688.	1.2	18
45	Ice thickness measurements of Guliya ice cap, western Kunlun Mountains (Tibetan Plateau), China. Journal of Glaciology, 2018, 64, 977-989.	1.1	16
46	The Influence of Key Climate Variables on Mass Balance of Naimona'nyi Glacier on a Northâ€Facing Slope in the Western Himalayas. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033956.	1.2	14
47	What induces the spatiotemporal variability of glacier mass balance across the Qilian Mountains. Climate Dynamics, 2022, 59, 3555-3577.	1.7	14
48	Disappearance of the last tropical glaciers in the Western Pacific Warm Pool (Papua, Indonesia) appears imminent. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26382-26388.	3.3	13
49	Drought-induced biomass burning as a source of black carbon to the central Himalaya since 1781â€‰CE as reconstructed from the Dasuopu ice core. Atmospheric Chemistry and Physics, 2021, 21, 5615-5633.	1.9	11
50	Geophysical Investigations Of The Tropical Quelccaya Ice Cap, Peru. Journal of Glaciology, 1982, 28, 57-69.	1.1	10
51	21st-century Asian air pollution impacts glacier in northwestern Tibet. Atmospheric Chemistry and Physics, 2019, 19, 15533-15544.	1.9	10
52	Increased Fire Activity in Alaska Since the 1980s: Evidence From an Ice Coreâ€Derived Black Carbon Record. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	7
53	Ice Core Î´ 18 O Record Linked to Western Arctic Sea Ice Variability. Journal of Geophysical Research D: Atmospheres, 2019, 124, 10784-10801.	1.2	6
54	Possible Causes of Anomalous Glacier Mass Balance in the Western Kunlun Mountains. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	5

#	Article	IF	Citations
55	Influence of atmospheric circulation on glacier mass balance in western Tibet: an analysis based on observations and modeling. Journal of Climate, 2021, , 1-55.	1.2	4