

Lonnie G Thompson

List of Publications by Year in descending order

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55
papers

10,635
citations

109137

35
h-index

155451

55
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57
all docs

57
docs citations

57
times ranked

7883
citing authors

#	ARTICLE	IF	CITATIONS
1	Increased Fire Activity in Alaska Since the 1980s: Evidence From an Ice Core-Derived Black Carbon Record. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	7
2	Possible Causes of Anomalous Glacier Mass Balance in the Western Kunlun Mountains. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	5
3	What induces the spatiotemporal variability of glacier mass balance across the Qilian Mountains. <i>Climate Dynamics</i> , 2022, 59, 3555-3577.	1.7	14
4	Temperature signals of ice core and speleothem isotopic records from Asian monsoon region as indicated by precipitation $\delta^{18}O$. <i>Earth and Planetary Science Letters</i> , 2021, 554, 116665.	1.8	31
5	Drought-induced biomass burning as a source of black carbon to the central Himalaya since 1781â€‰CE as reconstructed from the Dasuopu ice core. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5615-5633.	1.9	11
6	The Influence of Key Climate Variables on Mass Balance of Naimona'nyi Glacier on a North-Facing Slope in the Western Himalayas. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033956.	1.2	14
7	Influence of atmospheric circulation on glacier mass balance in western Tibet: an analysis based on observations and modeling. <i>Journal of Climate</i> , 2021, , 1-55.	1.2	4
8	Glacier ice archives nearly 15,000-year-old microbes and phages. <i>Microbiome</i> , 2021, 9, 160.	4.9	59
9	The impacts of warming on rapidly retreating high-altitude, low-latitude glaciers and ice core-derived climate records. <i>Global and Planetary Change</i> , 2021, 203, 103538.	1.6	25
10	Early atmospheric contamination on the top of the Himalayas since the onset of the European Industrial Revolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 3967-3973.	3.3	41
11	Ice Core $\delta^{18}O$ Record Linked to Western Arctic Sea Ice Variability. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 10784-10801.	1.2	6
12	Disappearance of the last tropical glaciers in the Western Pacific Warm Pool (Papua, Indonesia) appears imminent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 26382-26388.	3.3	13
13	21st-century Asian air pollution impacts glacier in northwestern Tibet. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 15533-15544.	1.9	10
14	Recent Third Pole's Rapid Warming Accompanies Cryospheric Melt and Water Cycle Intensification and Interactions between Monsoon and Environment: Multidisciplinary Approach with Observations, Modeling, and Analysis. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 423-444.	1.7	590
15	Ice core records of climate variability on the Third Pole with emphasis on the Guliya ice cap, western Kunlun Mountains. <i>Quaternary Science Reviews</i> , 2018, 188, 1-14.	1.4	97
16	Atmospheric depositions of natural and anthropogenic trace elements on the Guliya ice cap (northwestern Tibetan Plateau) during the last 340 years. <i>Atmospheric Environment</i> , 2018, 176, 91-102.	1.9	24
17	Ice thickness measurements of Guliya ice cap, western Kunlun Mountains (Tibetan Plateau), China. <i>Journal of Glaciology</i> , 2018, 64, 977-989.	1.1	16
18	Central Tibetan Plateau atmospheric trace metals contamination: A 500-year record from the Puruogangri ice core. <i>Science of the Total Environment</i> , 2017, 601-602, 1349-1363.	3.9	36

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19	Impacts of Recent Warming and the 2015/2016 El Niño on Tropical Peruvian Ice Fields. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,688.	1.2	18
20	Tropical West Pacific moisture dynamics and climate controls on rainfall isotopic ratios in southern Papua, Indonesia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2222-2245.	1.2	33
21	Cold air incursions, $\delta^{18}O$ variability, and monsoon dynamics associated with snow days at Quelccaya Ice Cap, Peru. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 7467-7487.	1.2	47
22	Widespread pollution of the South American atmosphere predates the industrial revolution by 240 y. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2349-2354.	3.3	57
23	Large variability of trace element mass fractions determined by ICP-SFMS in ice core samples from worldwide high altitude glaciers. <i>Applied Geochemistry</i> , 2014, 47, 109-121.	1.4	26
24	Annually Resolved Ice Core Records of Tropical Climate Variability over the Past ~1800 Years. <i>Science</i> , 2013, 340, 945-950.	6.0	216
25	Different glacier status with atmospheric circulations in Tibetan Plateau and surroundings. <i>Nature Climate Change</i> , 2012, 2, 663-667.	8.1	1,979
26	Reconstructed changes in Arctic sea ice over the past 1,450 years. <i>Nature</i> , 2011, 479, 509-512.	13.7	292
27	Tropical glaciers, recorders and indicators of climate change, are disappearing globally. <i>Annals of Glaciology</i> , 2011, 52, 23-34.	2.8	120
28	Climate variability during the last 1000 years inferred from Andean ice cores: A review of methodology and recent results. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2009, 281, 229-241.	1.0	88
29	Mass loss on Himalayan glacier endangers water resources. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	169
30	A 1000 year history of atmospheric sulfate concentrations in southern Asia as recorded by a Himalayan ice core. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	54
31	Thirty-year history of glacier melting in the Nepal Himalayas. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	23
32	Holocene climate variability archived in the Puruogangri ice cap on the central Tibetan Plateau. <i>Annals of Glaciology</i> , 2006, 43, 61-69.	2.8	132
33	Abrupt tropical climate change: Past and present. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10536-10543.	3.3	393
34	Tropical ice core records: evidence for asynchronous glaciation on Milankovitch timescales. <i>Journal of Quaternary Science</i> , 2005, 20, 723-733.	1.1	84
35	Forcing of the Asian monsoon on the Tibetan Plateau: Evidence from high-resolution ice core and tropical coral records. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	80
36	Modeling $\delta^{18}O$ in precipitation over the tropical Americas: 2. Simulation of the stable isotope signal in Andean ice cores. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	115

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37	Low latitude ice cores record Pacific sea surface temperatures. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	109
38	Kilimanjaro Ice Core Records: Evidence of Holocene Climate Change in Tropical Africa. <i>Science</i> , 2002, 298, 589-593.	6.0	715
39	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
40	ENSO Events Recorded in the Guliya Ice Core. <i>Climatic Change</i> , 2000, 47, 401-409.	1.7	30
41	Ice core evidence for climate change in the Tropics: implications for our future. <i>Quaternary Science Reviews</i> , 2000, 19, 19-35.	1.4	274
42	A High-Resolution Millennial Record of the South Asian Monsoon from Himalayan Ice Cores. <i>Science</i> , 2000, 289, 1916-1919.	6.0	817
43	Recording of El Niño in ice core δ ¹⁸ O records from Nevado Huascarán, Peru. <i>Journal of Geophysical Research</i> , 1999, 104, 31053-31065.	3.3	48
44	Tropical Climate Instability: The Last Glacial Cycle from a Qinghai-Tibetan Ice Core. <i>Science</i> , 1997, 276, 1821-1825.	6.0	993
45	Climate variation since the Last Interglacion recorded in the Guliya ice core. <i>Science in China Series D: Earth Sciences</i> , 1997, 40, 662-668.	0.9	152
46	Climatological significance of δ ¹⁸ O in north Tibetan ice cores. <i>Journal of Geophysical Research</i> , 1996, 101, 29531-29537.	3.3	170
47	Late Glacial Stage and Holocene Tropical Ice Core Records from Huascarán, Peru. <i>Science</i> , 1995, 269, 46-50.	6.0	772
48	Ice core evidence for an explosive tropical volcanic eruption 6 years preceding Tambora. <i>Journal of Geophysical Research</i> , 1991, 96, 17361-17366.	3.3	111
49	Holocene–Late Pleistocene Climatic Ice Core Records from Qinghai-Tibetan Plateau. <i>Science</i> , 1989, 246, 474-477.	6.0	444
50	Oxygen isotope changes in tropical ice, Quelccaya, Peru. <i>Journal of Geophysical Research</i> , 1989, 94, 1187-1194.	3.3	117
51	The Little Ice Age as Recorded in the Stratigraphy of the Tropical Quelccaya Ice Cap. <i>Science</i> , 1986, 234, 361-364.	6.0	388
52	A 1500-Year Record of Tropical Precipitation in Ice Cores from the Quelccaya Ice Cap, Peru. <i>Science</i> , 1985, 229, 971-973.	6.0	368
53	Geophysical Investigations Of The Tropical Quelccaya Ice Cap, Peru. <i>Journal of Glaciology</i> , 1982, 28, 57-69.	1.1	27
54	Geophysical Investigations Of The Tropical Quelccaya Ice Cap, Peru. <i>Journal of Glaciology</i> , 1982, 28, 57-69.	1.1	10

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55	Glaciological Investigations of the Tropical Quelccaya Ice Cap, Peru. Journal of Glaciology, 1980, 25, 69-84.	1.1	43