

# Elizabeth R Thomas

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

3,593  
citations

201674

27  
h-index

138484

58  
g-index

99  
all docs

99  
docs citations

99  
times ranked

4871  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Warming Reverses Long-Term Arctic Cooling. <i>Science</i> , 2009, 325, 1236-1239.	12.6	585
2	The 8.2ka event from Greenland ice cores. <i>Quaternary Science Reviews</i> , 2007, 26, 70-81.	3.0	386
3	Observed 20th century desert dust variability: impact on climate and biogeochemistry. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10875-10893.	4.9	355
4	A doubling in snow accumulation in the western Antarctic Peninsula since 1850. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	148
5	Antarctic climate variability on regional and continental scales over the last 2000 years. <i>Climate of the Past</i> , 2017, 13, 1609-1634.	3.4	145
6	In situ measurements of Antarctic snow compaction compared with predictions of models. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	134
7	Increased snowfall over the Antarctic Ice Sheet mitigated twentieth-century sea-level rise. <i>Nature Climate Change</i> , 2019, 9, 34-39.	18.8	132
8	Regional Antarctic snow accumulation over the past 1000 years. <i>Climate of the Past</i> , 2017, 13, 1491-1513.	3.4	124
9	A Validation of ERA5 Reanalysis Data in the Southern Antarctic Peninsulaâ€”Ellsworth Land Region, and Its Implications for Ice Core Studies. <i>Geosciences (Switzerland)</i> , 2019, 9, 289.	2.2	111
10	The Dominant Role of Extreme Precipitation Events in Antarctic Snowfall Variability. <i>Geophysical Research Letters</i> , 2019, 46, 3502-3511.	4.0	98
11	Ice core evidence for significant 100-year regional warming on the Antarctic Peninsula. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	91
12	The modelled surface mass balance of the Antarctic Peninsula at 5.5 km horizontal resolution. <i>Cryosphere</i> , 2016, 10, 271-285.	3.9	89
13	The 8200yr BP cold event in stable isotope records from the North Atlantic region. <i>Global and Planetary Change</i> , 2011, 79, 288-302.	3.5	84
14	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
15	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
16	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
17	Twentieth century increase in snowfall in coastal West Antarctica. <i>Geophysical Research Letters</i> , 2015, 42, 9387-9393.	4.0	70
18	A Comparison of Antarctic Ice Sheet Surface Mass Balance from Atmospheric Climate Models and In Situ Observations. <i>Journal of Climate</i> , 2016, 29, 5317-5337.	3.2	57

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19	Record Low Antarctic Sea Ice Cover in February 2022. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	49
20	A 308 year record of climate variability in West Antarctica. <i>Geophysical Research Letters</i> , 2013, 40, 5492-5496.	4.0	43
21	Anatomy of a Dansgaard-Oeschger warming transition: High-resolution analysis of the North Greenland Ice Core Project ice core. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	41
22	Ice core reconstruction of sea ice change in the Amundsen-Ross Seas since 1702 A.D.. <i>Geophysical Research Letters</i> , 2016, 43, 5309-5317.	4.0	41
23	Climate and surface mass balance of coastal West Antarctica resolved by regional climate modelling. <i>Annals of Glaciology</i> , 2018, 59, 29-41.	1.4	40
24	Antarctic Sea Ice Proxies from Marine and Ice Core Archives Suitable for Reconstructing Sea Ice over the Past 2000 Years. <i>Geosciences (Switzerland)</i> , 2019, 9, 506.	2.2	35
25	PaCTS 1.0: A Crowdsourced Reporting Standard for Paleoclimate Data. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1570-1596.	2.9	30
26	Improving ice core interpretation using in situ and reanalysis data. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	29
27	Interpreting temperature information from ice cores along the Antarctic Peninsula: ERA40 analysis. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	28
28	Automated ice-core layer-counting with strong univariate signals. <i>Climate of the Past</i> , 2012, 8, 1869-1879.	3.4	28
29	Precipitation pathways for five new ice core sites in Ellsworth Land, West Antarctica. <i>Climate Dynamics</i> , 2015, 44, 2067-2078.	3.8	27
30	Back to the Future: Using Long-Term Observational and Paleo-Proxy Reconstructions to Improve Model Projections of Antarctic Climate. <i>Geosciences (Switzerland)</i> , 2019, 9, 255.	2.2	27
31	Prospects for reconstructing paleoenvironmental conditions from organic compounds in polar snow and ice. <i>Quaternary Science Reviews</i> , 2018, 183, 1-22.	3.0	25
32	Tropical forcing of increased Southern Ocean climate variability revealed by a 140-year subantarctic temperature reconstruction. <i>Climate of the Past</i> , 2017, 13, 231-248.	3.4	23
33	Reconstructing atmospheric circulation and sea-ice extent in the West Antarctic over the past 200 years using data assimilation. <i>Climate Dynamics</i> , 2021, 57, 3479-3503.	3.8	22
34	How useful is snow accumulation in reconstructing surface air temperature in Antarctica? A study combining ice core records and climate models. <i>Cryosphere</i> , 2020, 14, 1187-1207.	3.9	19
35	Multi-tracer study of gas trapping in an East Antarctic ice core. <i>Cryosphere</i> , 2019, 13, 3383-3403.	3.9	18
36	Review article: Existing and potential evidence for Holocene grounding line retreat and readvance in Antarctica. <i>Cryosphere</i> , 2022, 16, 1543-1562.	3.9	16

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37	Evidence for a "Little Ice Age" glacial advance within the Antarctic Peninsula " Examples from glacially-overrun raised beaches. <i>Quaternary Science Reviews</i> , 2021, 271, 107195.	3.0	15
38	On high-resolution sampling of short ice cores: Dating and temperature information recovery from Antarctic Peninsula virtual cores. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	14
39	Snow Accumulation Variability Over the West Antarctic Ice Sheet Since 1900: A Comparison of Ice Core Records With ERA-20C Reanalysis. <i>Geophysical Research Letters</i> , 2017, 44, 11,482.	4.0	14
40	Continuous flow analysis methods for sodium, magnesium and calcium detection in the Skytrain ice core. <i>Journal of Glaciology</i> , 2022, 68, 90-100.	2.2	14
41	Organic Compounds in a Sub-Antarctic Ice Core: A Potential Suite of Sea Ice Markers. <i>Geophysical Research Letters</i> , 2019, 46, 9930-9939.	4.0	12
42	Sea salt sodium record from Talos Dome (East Antarctica) as a potential proxy of the Antarctic past sea ice extent. <i>Chemosphere</i> , 2017, 177, 266-274.	8.2	11
43	Stability of the Antarctic Ice Sheet during the pre-industrial Holocene. <i>Nature Reviews Earth &amp; Environment</i> , 2022, 3, 500-515.	29.7	11
44	Ice Core Chronologies from the Antarctic Peninsula: The Palmer, Jurassic, and Rendezvous Age-Scales. <i>Geosciences (Switzerland)</i> , 2022, 12, 87.	2.2	9
45	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
46	Evidence of Recent Active Volcanism in the Balleny Islands (Antarctica) From Ice Core Records. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, .	3.3	8
47	High-resolution aerosol concentration data from the Greenland NorthGRIP and NEEM deep ice cores. <i>Earth System Science Data</i> , 2022, 14, 1215-1231.	9.9	8
48	A change in seasonality in Greenland during a Dansgaard-Oeschger warming. <i>Annals of Glaciology</i> , 2008, 48, 19-24.	1.4	7
49	Direct Injection Liquid Chromatography High-Resolution Mass Spectrometry for Determination of Primary and Secondary Terrestrial and Marine Biomarkers in Ice Cores. <i>Analytical Chemistry</i> , 2019, 91, 5051-5057.	6.5	6
50	Preliminary Evidence for the Role Played by South Westerly Wind Strength on the Marine Diatom Content of an Antarctic Peninsula Ice Core (1980-2010). <i>Geosciences (Switzerland)</i> , 2020, 10, 87.	2.2	6
51	Physical properties of shallow ice cores from Antarctic and sub-Antarctic islands. <i>Cryosphere</i> , 2021, 15, 1173-1186.	3.9	6
52	A Refined Method to Analyze Insoluble Particulate Matter in Ice Cores, and Its Application to Diatom Sampling in the Antarctic Peninsula. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	6
53	Reconciling the surface temperature-surface mass balance relationship in models and ice cores in Antarctica over the last 2 centuries. <i>Cryosphere</i> , 2020, 14, 4083-4102.	3.9	6
54	A new method for the determination of primary and secondary terrestrial and marine biomarkers in ice cores using liquid chromatography high-resolution mass spectrometry. <i>Talanta</i> , 2019, 194, 233-242.	5.5	5

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55	An Age Scale for the First Shallow (Sub-)Antarctic Ice Core from Young Island, Northwest Ross Sea. <i>Geosciences (Switzerland)</i> , 2021, 11, 368.	2.2	5
56	Regional variability of diatoms in ice cores from the Antarctic Peninsula and Ellsworth Land, Antarctica. <i>Cryosphere</i> , 2022, 16, 779-798.	3.9	5
57	Century-scale perspectives on observed and simulated Southern Ocean sea ice trends from proxy reconstructions. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 7804-7818.	2.6	4
58	Accumulation in coastal West Antarctic ice core records and the role of cyclone activity. <i>Geophysical Research Letters</i> , 2017, 44, 9084-9092.	4.0	4
59	A New 200-Year Spatial Reconstruction of West Antarctic Surface Mass Balance. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 5282-5295.	3.3	4
60	<i>In situ</i> measurements of snow accumulation in the Amundsen Sea Embayment during 2016. <i>Antarctic Science</i> , 2018, 30, 197-203.	0.9	3
61	The Climate of the Antarctic Peninsula during the Twentieth Century: Evidence from Ice Cores. , 2019, , .		3
62	The Last Three Millions of Unequal Spring Thaws. <i>Springer Textbooks in Earth Sciences, Geography and Environment</i> , 2020, , 1-53.	0.3	0
63	Review article: Existing and potential evidence for Holocene grounding-line retreat and readvance in Antarctica. , 0, , .		0