

Erich C Osterberg

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

1,745
citations

257450

24
h-index

302126

39
g-index

66
all docs

66
docs citations

66
times ranked

2346
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous Ice Core Melter System with Discrete Sampling for Major Ion, Trace Element, and Stable Isotope Analyses. <i>Environmental Science & Technology</i> , 2006, 40, 3355-3361.	10.0	142
2	Total and Extreme Precipitation Changes over the Northeastern United States. <i>Journal of Hydrometeorology</i> , 2017, 18, 1783-1798.	1.9	99
3	The Mt Logan Holoceneâ€”late Wisconsinan isotope record: tropical Pacificâ€”Yukon connections. <i>Holocene</i> , 2008, 18, 667-677.	1.7	94
4	Snow chemistry across Antarctica. <i>Annals of Glaciology</i> , 2005, 41, 167-179.	1.4	90
5	Ice core record of rising lead pollution in the North Pacific atmosphere. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	87
6	Ice Core Perspective on Mercury Pollution during the Past 600 Years. <i>Environmental Science & Technology</i> , 2015, 49, 7641-7647.	10.0	69
7	Recent increases in atmospheric concentrations of Bi, U, Cs, S and Ca from a 350â€”year Mount Everest ice core record. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	65
8	Holocene temperatures and isotopes of precipitation in Northwest Greenland recorded in lacustrine organic materials. <i>Quaternary Science Reviews</i> , 2017, 170, 45-55.	3.0	59
9	The 1200â€”year composite ice core record of Aleutian Low intensification. <i>Geophysical Research Letters</i> , 2017, 44, 7447-7454.	4.0	55
10	Industrial-age doubling of snow accumulation in the Alaska Range linked to tropical ocean warming. <i>Scientific Reports</i> , 2017, 7, 17869.	3.3	49
11	Mechanisms of Abrupt Extreme Precipitation Change Over the Northeastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7179-7192.	3.3	49
12	Stable Isotope Records from Mount Logan, Eclipse Ice Cores and Nearby Jellybean Lake. <i>Water Cycle of the North Pacific Over 2000 Years and Over Five Vertical Kilometres: Sudden Shifts and Tropical Connections</i> . <i>GÃ©ographie Physique Et Quaternaire</i> , 2004, 58, 337-352.	0.2	44
13	Recent accumulation variability in northwest Greenland from ground-penetrating radar and shallow cores along the Greenland Inland Traverse. <i>Journal of Glaciology</i> , 2014, 60, 375-382.	2.2	44
14	Spatially Distinct Seasonal Patterns and Forcings of the U.S. Warming Hole. <i>Geophysical Research Letters</i> , 2018, 45, 2055-2063.	4.0	42
15	The SP19 chronology for the South Pole Ice Core â€” Part 1: volcanic matching and annual layer counting. <i>Climate of the Past</i> , 2019, 15, 1793-1808.	3.4	38
16	Ice Core Records of West Greenland Melt and Climate Forcing. <i>Geophysical Research Letters</i> , 2018, 45, 3164-3172.	4.0	36
17	Pronounced summer warming in northwest Greenland during the Holocene and Last Interglacial. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6357-6362.	7.1	36
18	Solar forcing of the polar atmosphere. <i>Annals of Glaciology</i> , 2005, 41, 147-154.	1.4	33

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19	Regional Greenland accumulation variability from Operation IceBridge airborne accumulation radar. <i>Cryosphere</i> , 2017, 11, 773-788.	3.9	32
20	Late Quaternary (marine isotope stages 6-1) seismic sequence stratigraphic evolution of the Otago continental shelf, New Zealand. <i>Marine Geology</i> , 2006, 229, 159-178.	2.1	31
21	Past Warmth and Its Impacts During the Holocene Thermal Maximum in Greenland. <i>Annual Review of Earth and Planetary Sciences</i> , 2021, 49, 279-307.	11.0	31
22	Mount Logan ice core record of tropical and solar influences on Aleutian Low variability: 500â€“1998 A.D.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 11,189.	3.3	29
23	Dependence of ice-core relative trace-element concentration on acidification. <i>Journal of Glaciology</i> , 2014, 60, 103-112.	2.2	28
24	Holocene temperature history of northwest Greenland â€“ With new ice cap constraints and chironomid assemblages from DeltasÃ. <i>Quaternary Science Reviews</i> , 2019, 215, 160-172.	3.0	26
25	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
26	Rapid transport of ash and sulfate from the 2011 Puyehueâ€“CordÃn Caulle (Chile) eruption to West Antarctica. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8908-8920.	3.3	24
27	Coast-to-interior gradient in recent northwest Greenland precipitation trends (1952â€“2012). <i>Environmental Research Letters</i> , 2015, 10, 114008.	5.2	23
28	Recent precipitation decrease across the western Greenland ice sheet percolation zone. <i>Cryosphere</i> , 2019, 13, 2797-2815.	3.9	22
29	Holocene Iceâ€“Flow Speedup in the Vicinity of the South Pole. <i>Geophysical Research Letters</i> , 2018, 45, 6557-6565.	4.0	21
30	A 400â€“Year Ice Core Melt Layer Record of Summertime Warming in the Alaska Range. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 3594-3611.	3.3	20
31	Volcanic glass properties from 1459 C.E. volcanic event in South Pole ice core dismiss Kuwae caldera as a potential source. <i>Scientific Reports</i> , 2019, 9, 14437.	3.3	20
32	Simulating precipitation and temperature in the Lake Champlain basin using a regional climate model: limitations and uncertainties. <i>Climate Dynamics</i> , 2020, 54, 69-84.	3.8	17
33	Coastal ice-core record of recent northwest Greenland temperature and sea-ice concentration. <i>Journal of Glaciology</i> , 2015, 61, 1137-1146.	2.2	16
34	Holocene history of the Greenland Ice-Sheet margin in Northern Nunatarssuaq, Northwest Greenland. <i>Arktos</i> , 2018, 4, 1-27.	1.0	16
35	The SP19 chronology for the South Pole Ice Core â€“ Part 2: gas chronology, Î”age, and smoothing of atmospheric records. <i>Climate of the Past</i> , 2020, 16, 2431-2444.	3.4	16
36	Ice Cores from the St. Elias Mountains, Yukon, Canada: Their Significance for Climate, Atmospheric Composition and Volcanism in the North Pacific Region. <i>Arctic</i> , 2014, 67, 35.	0.4	15

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37	Atmospheric deposition of cadmium in the northeastern USA. <i>Applied Geochemistry</i> , 2007, 22, 1217-1222.	3.0	14
38	Melt regimes, stratigraphy, flow dynamics and glaciochemistry of three glaciers in the Alaska Range. <i>Journal of Glaciology</i> , 2012, 58, 99-109.	2.2	13
39	Volume loss from lower Peyto Glacier, Alberta, Canada, between 1966 and 2010. <i>Journal of Glaciology</i> , 2014, 60, 51-56.	2.2	13
40	Effect of Rising Temperature on Lyme Disease: <i>Ixodes scapularis</i> Population Dynamics and <i>Borrelia burgdorferi</i> Transmission and Prevalence. <i>Canadian Journal of Infectious Diseases and Medical Microbiology</i> , 2019, 2019, 1-15.	1.9	13
41	Rise in Northeast US extreme precipitation caused by Atlantic variability and climate change. <i>Weather and Climate Extremes</i> , 2021, 33, 100351.	4.1	13
42	Trace-element and physical response to melt percolation in Summit (Greenland) snow. <i>Annals of Glaciology</i> , 2013, 54, 52-62.	1.4	12
43	Seasonally Resolved Holocene Sea Ice Variability Inferred From South Pole Ice Core Chemistry. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091602.	4.0	12
44	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
45	Paleoseismicity and mass movements interpreted from seismic reflection data, Lake Tekapo, South Canterbury, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2007, 50, 343-356.	1.8	11
46	Anthropogenic Impacts on the Exceptional Precipitation of 2018 in the Mid-Atlantic United States. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, S5-S10.	3.3	9
47	Ice layers as an indicator of summer warmth and atmospheric blocking in Alaska. <i>Journal of Glaciology</i> , 2010, 56, 715-722.	2.2	8
48	Quaternary shelf structures SE of the South Island, imaged by high-resolution seismic profiling. <i>New Zealand Journal of Geology, and Geophysics</i> , 2013, 56, 68-82.	1.8	8
49	Strain-rate estimates for crevasse formation at an alpine ice divide: Mount Hunter, Alaska. <i>Annals of Glaciology</i> , 2013, 54, 200-208.	1.4	8
50	Water, agriculture, and climate dynamics in central Chile's Aconcagua River Basin. <i>Physical Geography</i> , 2021, 42, 395-415.	1.4	8
51	Reconstruction of historical surface mass balance, 1984–2017 from GreenTrACS multi-offset ground-penetrating radar. <i>Journal of Glaciology</i> , 2021, 67, 219-228.	2.2	7
52	Last interglacial lake sediments preserved beneath Laurentide and Greenland Ice sheets provide insights into Arctic climate amplification and constrain 130 ka of ice sheet history. <i>Journal of Quaternary Science</i> , 2022, 37, 979-1005.	2.1	7
53	High-frequency observations of melt effects on snowpack stratigraphy, Kahiltna Glacier, Central Alaska Range. <i>Hydrological Processes</i> , 2012, 26, 2573-2582.	2.6	5
54	Modeling the Sensitivity of Blacklegged Ticks (<i>Ixodes scapularis</i>) to Temperature and Land Cover in the Northeastern United States. <i>Journal of Medical Entomology</i> , 2021, 58, 416-427.	1.8	5

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55	The role of blocking circulation and emerging open water feedbacks on Greenland cold-season air temperature variability over the last century. <i>International Journal of Climatology</i> , 2021, 41, E2778.	3.5	5
56	Flow dynamics of an accumulation basin: a case study of upper Kahiltna Glacier, Mount McKinley, Alaska. <i>Journal of Glaciology</i> , 2012, 58, 185-195.	2.2	4
57	Determination of Osmium Concentration and Isotope Composition at Ultra-low Level in Polar Ice and Snow. <i>Analytical Chemistry</i> , 2018, 90, 5781-5787.	6.5	4
58	Boreal blazes: biomass burning and vegetation types archived in the Juneau Icefield. <i>Environmental Research Letters</i> , 2020, 15, 085005.	5.2	4
59	Denali Ice Core Methanesulfonic Acid Records North Pacific Marine Primary Production. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4642-4653.	3.3	3
60	Atmospheric Blocking Drives Recent Albedo Change Across the Western Greenland Ice Sheet Percolation Zone. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092814.	4.0	3
61	Response to Comment on "Ice Core Perspective on Mercury Pollution during the Past 600 Years". <i>Environmental Science & Technology</i> , 2016, 50, 1068-1069.	10.0	1
62	GreenTrACS multi-offset GPR: Velocity analysis and imaging techniques for ice sheet surface mass balance time series reconstruction. , 2020, , .		0