

# Caroline H Lear

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

6,342  
citations

109321

35  
h-index

133252

59  
g-index

68  
all docs

68  
docs citations

68  
times ranked

4435  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cenozoic Deep-Sea Temperatures and Global Ice Volumes from Mg/Ca in Benthic Foraminiferal Calcite. <i>Science</i> , 2000, 287, 269-272.	12.6	953
2	Rapid stepwise onset of Antarctic glaciation and deeper calcite compensation in the Pacific Ocean. <i>Nature</i> , 2005, 433, 53-57.	27.8	597
3	The Heartbeat of the Oligocene Climate System. <i>Science</i> , 2006, 314, 1894-1898.	12.6	530
4	Thresholds for Cenozoic bipolar glaciation. <i>Nature</i> , 2008, 455, 652-656.	27.8	361
5	Benthic foraminiferal Mg/Ca-paleothermometry: a revised core-top calibration. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 3375-3387.	3.9	311
6	Cooling and ice growth across the Eocene-Oligocene transition. <i>Geology</i> , 2008, 36, 251.	4.4	293
7	The evolution of pCO <sub>2</sub> , ice volume and climate during the middle Miocene. <i>Earth and Planetary Science Letters</i> , 2012, 341-344, 243-254.	4.4	239
8	Late Eocene to early Miocene ice sheet dynamics and the global carbon cycle. <i>Paleoceanography</i> , 2004, 19, n/a-n/a.	3.0	190
9	Interlaboratory comparison study of Mg/Ca and Sr/Ca measurements in planktonic foraminifera for paleoceanographic research. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a.	2.5	170
10	The Miocene: The Future of the Past. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004037.	2.9	166
11	The closing of a seaway: ocean water masses and global climate change. <i>Earth and Planetary Science Letters</i> , 2003, 210, 425-436.	4.4	146
12	Extinction and environmental change across the Eocene-Oligocene boundary in Tanzania. <i>Geology</i> , 2008, 36, 179.	4.4	140
13	A Cenozoic seawater Sr/Ca record from benthic foraminiferal calcite and its application in determining global weathering fluxes. <i>Earth and Planetary Science Letters</i> , 2003, 208, 69-84.	4.4	137
14	The DeepMIP contribution to PMIP4: methodologies for selection, compilation and analysis of latest Paleocene and early Eocene climate proxy data, incorporating version 0.1 of the DeepMIP database. <i>Geoscientific Model Development</i> , 2019, 12, 3149-3206.	3.6	131
15	Temperature and carbonate ion effects on Mg/Ca and Sr/Ca ratios in benthic foraminifera: Aragonitic species <i>Hoeglundina elegans</i> . <i>Paleoceanography</i> , 2006, 21, n/a-n/a.	3.0	120
16	Cenozoic climate changes: A review based on time series analysis of marine benthic $\delta^{18}O$ records. <i>Reviews of Geophysics</i> , 2014, 52, 333-374.	23.0	120
17	Cenozoic benthic foraminiferal Mg/Ca and Li/Ca records: Toward unlocking temperatures and saturation states. <i>Paleoceanography</i> , 2010, 25, n/a-n/a.	3.0	113
18	Middle Miocene climate instability associated with high amplitude CO <sub>2</sub> variability. <i>Paleoceanography</i> , 2014, 29, 845-853.	3.0	110

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19	Neogene ice volume and ocean temperatures: Insights from infaunal foraminiferal Mg/Ca paleothermometry. <i>Paleoceanography</i> , 2015, 30, 1437-1454.	3.0	96
20	CO <sub>2</sub> drawdown following the middle Miocene expansion of the Antarctic Ice Sheet. <i>Paleoceanography</i> , 2013, 28, 42-53.	3.0	92
21	The DeepMIP contribution to PMIP4: experimental design for model simulations of the EECO, PETM, and pre-PETM (version 1.0). <i>Geoscientific Model Development</i> , 2017, 10, 889-901.	3.6	90
22	The Eocene–Oligocene transition: a review of marine and terrestrial proxy data, models and model–data comparisons. <i>Climate of the Past</i> , 2021, 17, 269-315.	3.4	90
23	Deglacial upwelling, productivity and CO <sub>2</sub> outgassing in the North Pacific Ocean. <i>Nature Geoscience</i> , 2018, 11, 340-344.	12.9	73
24	Major shifts in calcareous phytoplankton assemblages through the Eocene–Oligocene transition of Tanzania and their implications for low-latitude primary production. <i>Paleoceanography</i> , 2008, 23, .	3.0	71
25	DeepMIP: model intercomparison of early Eocene climatic optimum (EECO) large-scale climate features and comparison with proxy data. <i>Climate of the Past</i> , 2021, 17, 203-227.	3.4	71
26	Export of nutrient rich Northern Component Water preceded early Oligocene Antarctic glaciation. <i>Nature Geoscience</i> , 2018, 11, 190-196.	12.9	67
27	Middle Eocene climate cyclicity in the southern Pacific: Implications for global ice volume. <i>Geology</i> , 2008, 36, 651.	4.4	59
28	Ocean Carbon Storage across the middle Miocene: a new interpretation for the Monterey Event. <i>Nature Communications</i> , 2020, 11, 134.	12.8	59
29	Benthic foraminiferal Li/Ca: Insights into Cenozoic seawater carbonate saturation state. <i>Geology</i> , 2006, 34, 985.	4.4	56
30	Simulating Miocene Warmth: Insights From an Opportunistic Multi-Model Ensemble (MioMIP1). <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004054.	2.9	52
31	Breathing more deeply: Deep ocean carbon storage during the mid-Pleistocene climate transition. <i>Geology</i> , 2016, 44, 1035-1038.	4.4	44
32	A record of Neogene seawater δ <sup>11</sup> B reconstructed from paired δ <sup>11</sup> B analyses on benthic and planktic foraminifera. <i>Climate of the Past</i> , 2017, 13, 149-170.	3.4	43
33	Carbon cycle feedbacks during the Oligocene-Miocene transient glaciation. <i>Geology</i> , 2013, 41, 963-966.	4.4	40
34	Sea ice dynamics across the Mid-Pleistocene transition in the Bering Sea. <i>Nature Communications</i> , 2018, 9, 941.	12.8	38
35	Orbital Forcing, Ice Volume, and CO <sub>2</sub> Across the Oligocene–Miocene Transition. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 316-328.	2.9	38
36	Stable Isotope and Sr/Ca Profiles From the Marine Gastropod <i>Conus ermineus</i> : Testing a Multiproxy Approach For Inferring Paleotemperature and Paleosalinity. <i>Palaios</i> , 2008, 23, 195-209.	1.3	34

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37	Strontium to calcium ratios in the marine gastropod <i>Conus ermineus</i> : Growth rate effects and temperature calibration. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	33
38	Exploring uncertainties in the relationship between temperature, ice volume, and sea level over the past 50 million years. <i>Reviews of Geophysics</i> , 2012, 50, .	23.0	33
39	Atmospheric and oceanic impacts of Antarctic glaciation across the Eocene–Oligocene transition. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140419.	3.4	33
40	Warm Middle Miocene Indian Ocean Bottom Water Temperatures: Comparison of Clumped Isotope and Mg/Ca-Based Estimates. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2020PA003927.	2.9	33
41	The Mg/Ca–temperature relationship in brachiopod shells: Calibrating a potential palaeoseasonality proxy. <i>Chemical Geology</i> , 2015, 397, 106-117.	3.3	25
42	Initiation of the Western Pacific Warm Pool at the Middle Miocene Climate Transition?. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2020PA003920.	2.9	23
43	Arctic Ocean benthic foraminifera Mg/Ca ratios and global Mg/Ca-temperature calibrations: New constraints at low temperatures. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 236, 240-259.	3.9	22
44	Testing the effect of carbonate saturation on the Sr/Ca of biogenic aragonite: A case study from the River Ehen, Cumbria, UK. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	20
45	Chapter 10 Middle Miocene to Pliocene History of Antarctica and the Southern Ocean. <i>Developments in Earth and Environmental Sciences</i> , 2008, 8, 401-463.	0.1	19
46	Cenozoic seawater Sr/Ca evolution. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	19
47	Meridional Contrasts in Productivity Changes Driven by the Opening of Drake Passage. <i>Paleoceanography and Paleoclimatology</i> , 2018, 33, 302-317.	2.9	18
48	Hydrological impact of Middle Miocene Antarctic ice-free areas coupled to deep ocean temperatures. <i>Nature Geoscience</i> , 2021, 14, 429-436.	12.9	16
49	Fidelity of radially viewed ICP-OES and magnetic-sector ICP-MS measurement of Mg/Ca and Sr/Ca ratios in marine biogenic carbonates: Are they trustworthy together?. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	15
50	Modern and ancient hiatuses in the pelagic caps of Pacific guyots and seamounts and internal tides. , 2015, 11, 1590-1606.		12
51	How Antarctica got its ice. <i>Science</i> , 2016, 352, 34-35.	12.6	12
52	Geological Society of London Scientific Statement: what the geological record tells us about our present and future climate. <i>Journal of the Geological Society</i> , 2021, 178, .	2.1	12
53	Multi-elemental composition of authigenic carbonates in benthic foraminifera from the eastern Bering Sea continental margin (International Ocean Discovery Program Site U1343). <i>Geochimica Et Cosmochimica Acta</i> , 2020, 268, 1-21.	3.9	11
54	Mg/Ca-temperature calibration for the benthic foraminifera <i>Melonis barleeanum</i> and <i>Melonis pompilioides</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2017, 217, 365-383.	3.9	10

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55	No substantial long-term bias in the Cenozoic benthic foraminifera oxygen-isotope record. <i>Nature Communications</i> , 2018, 9, 2875.	12.8	8
56	Joint inversion of proxy system models to reconstruct paleoenvironmental time series from heterogeneous data. <i>Climate of the Past</i> , 2020, 16, 65-78.	3.4	8
57	Tropical Sea Surface Temperatures Following the Middle Miocene Climate Transition From Laser Ablation ICP-MS Analysis of Glassy Foraminifera. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004165.	2.9	6
58	Apparent preservation of primary foraminiferal Mg/Ca ratios and Mg-banding in recrystallized foraminifera. <i>Geology</i> , 2022, 50, 760-764.	4.4	3
59	Late quaternary sea-ice and sedimentary redox conditions in the eastern Bering Sea – Implications for ventilation of the mid-depth North Pacific and an Atlantic-Pacific seesaw mechanism. <i>Quaternary Science Reviews</i> , 2020, 248, 106549.	3.0	1