

# Anne Cohen

## List of Publications by Year in descending order

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Version: 2024-02-01

83  
papers

7,876  
citations

53794

45  
h-index

53230

85  
g-index

85  
all docs

85  
docs citations

85  
times ranked

6592  
citing authors

#	ARTICLE	IF	CITATIONS
1	Marine calcifiers exhibit mixed responses to CO <sub>2</sub> -induced ocean acidification. <i>Geology</i> , 2009, 37, 1131-1134.	4.4	1,033
2	Projecting Coral Reef Futures Under Global Warming and Ocean Acidification. <i>Science</i> , 2011, 333, 418-422.	12.6	1,001
3	Ocean Warming Slows Coral Growth in the Central Red Sea. <i>Science</i> , 2010, 329, 322-325.	12.6	363
4	Element partitioning during precipitation of aragonite from seawater: A framework for understanding paleoproxies. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 4617-4634.	3.9	349
5	Why Corals Care About Ocean Acidification: Uncovering the Mechanism. <i>Oceanography</i> , 2009, 22, 118-127.	1.0	314
6	Geochemical Perspectives on Coral Mineralization. <i>Reviews in Mineralogy and Geochemistry</i> , 2003, 54, 151-187.	4.8	305
7	Morphological and compositional changes in the skeletons of new coral recruits reared in acidified seawater: Insights into the biomineralization response to ocean acidification. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	188
8	Kinetic control of skeletal Sr/Ca in a symbiotic coral: Implications for the paleotemperature proxy. <i>Paleoceanography</i> , 2001, 16, 20-26.	3.0	176
9	Ocean acidification affects coral growth by reducing skeletal density. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1754-1759.	7.1	156
10	An ion probe study of annual cycles of Sr/Ca and other trace elements in corals. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 3075-3084.	3.9	148
11	The Effect of Algal Symbionts on the Accuracy of Sr/Ca Paleotemperatures from Coral. <i>Science</i> , 2002, 296, 331-333.	12.6	147
12	Compositional and morphological features of aragonite precipitated experimentally from seawater and biogenically by corals. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4166-4179.	3.9	144
13	Reduced calcification and lack of acclimatization by coral colonies growing in areas of persistent natural acidification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11044-11049.	7.1	139
14	Long-term effects of nutrient and CO <sub>2</sub> enrichment on the temperate coral <i>Astrangia poculata</i> (Ellis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.3	138
15	Surface-temperature trends and variability in the low-latitude North Atlantic since 1552. <i>Nature Geoscience</i> , 2009, 2, 492-495.	12.9	119
16	Coral macrobioerosion is accelerated by ocean acidification and nutrients. <i>Geology</i> , 2015, 43, 7-10.	4.4	119
17	Diverse coral communities in naturally acidified waters of a Western Pacific reef. <i>Geophysical Research Letters</i> , 2014, 41, 499-504.	4.0	118
18	Mass coral mortality under local amplification of 2â€‰%Â°C ocean warming. <i>Scientific Reports</i> , 2017, 7, 44586.	3.3	113

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19	Rayleigh-based, multi-element coral thermometry: A biomineralization approach to developing climate proxies. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 1920-1932.	3.9	108
20	21st-century rise in anthropogenic nitrogen deposition on a remote coral reef. <i>Science</i> , 2017, 356, 749-752.	12.6	105
21	Changes in coral reef communities across a natural gradient in seawater pH. <i>Science Advances</i> , 2015, 1, e1500328.	10.3	103
22	A Holocene Marine Climate Record in Mollusc Shells from the Southwest African Coast. <i>Quaternary Research</i> , 1992, 38, 379-385.	1.7	96
23	The impact of seawater saturation state and bicarbonate ion concentration on calcification by new recruits of two Atlantic corals. <i>Coral Reefs</i> , 2011, 30, 321-328.	2.2	92
24	Description and quantification of pteropod shell dissolution: a sensitive bioindicator of ocean acidification. <i>Global Change Biology</i> , 2012, 18, 2378-2388.	9.5	91
25	A nonlinear calcification response to CO <sub>2</sub> -induced ocean acidification by the coral <i>Oculina arbuscula</i> . <i>Coral Reefs</i> , 2010, 29, 661-674.	2.2	88
26	Community production modulates coral reef pH and the sensitivity of ecosystem calcification to ocean acidification. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 745-761.	2.6	82
27	Compositional variability in a cold-water scleractinian, <i>Lophelia pertusa</i> : New insights into "œvital effects" <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	81
28	Experimental determination of factors controlling U/Ca of aragonite precipitated from seawater: Implications for interpreting coral skeleton. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 162, 151-165.	3.9	80
29	Effects of diagenesis on paleoclimate reconstructions from modern and young fossil corals. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6361-6373.	3.9	78
30	Record of Little Ice Age sea surface temperatures at Bermuda using a growth-dependent calibration of coral Sr/Ca. <i>Paleoceanography</i> , 2005, 20, n/a-n/a.	3.0	76
31	The effect of colony topography on climate signals in coral skeleton. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 3905-3912.	3.9	70
32	Vulnerability of Coral Reefs to Bioerosion From Land-Based Sources of Pollution. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 9319-9331.	2.6	66
33	Internal waves influence the thermal and nutrient environment on a shallow coral reef. <i>Limnology and Oceanography</i> , 2019, 64, 1949-1965.	3.1	66
34	Adverse Effects of Ocean Acidification on Early Development of Squid ( <i>Doryteuthis pealeii</i> ). <i>PLoS ONE</i> , 2013, 8, e63714.	2.5	64
35	Ecological Impacts of the 2015/16 El Niño in the Central Equatorial Pacific. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, S21-S26.	3.3	63
36	Repeat bleaching of a central Pacific coral reef over the past six decades (1960–2016). <i>Communications Biology</i> , 2018, 1, 177.	4.4	62

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37	Experimental calibration of Mg isotope fractionation between aragonite and seawater. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 102, 113-123.	3.9	61
38	Calcification by juvenile corals under heterotrophy and elevated CO <sub>2</sub> . <i>Coral Reefs</i> , 2013, 32, 727-735.	2.2	59
39	Interpreting sea surface temperature from strontium/calcium ratios in <i>Montastrea</i> corals: Link with growth rate and implications for proxy reconstructions. <i>Paleoceanography</i> , 2008, 23, .	3.0	56
40	A multicoral calibration method to approximate a universal equation relating Sr/Ca and growth rate to sea surface temperature. <i>Paleoceanography</i> , 2007, 22, n/a-n/a.	3.0	53
41	Dissepiments, density bands and signatures of thermal stress in <i>Porites</i> skeletons. <i>Coral Reefs</i> , 2017, 36, 749-761.	2.2	52
42	Deglacial sea surface temperatures of the western tropical Pacific: A new look at old coral. <i>Paleoceanography</i> , 2004, 19, n/a-n/a.	3.0	51
43	Integrating the Effects of Ocean Acidification across Functional Scales on Tropical Coral Reefs. <i>BioScience</i> , 2016, 66, 350-362.	4.9	51
44	Equatorial refuge amid tropical warming. <i>Nature Climate Change</i> , 2012, 2, 530-534.	18.8	50
45	Coastal sea surface temperature variability along the south coast of South Africa and the relationship to regional and global climate. <i>Journal of Marine Research</i> , 1995, 53, 231-248.	0.3	49
46	Early Exposure of Bay Scallops ( <i>Argopecten irradians</i> ) to High CO <sub>2</sub> Causes a Decrease in Larval Shell Growth. <i>PLoS ONE</i> , 2013, 8, e61065.	2.5	49
47	Comparison of equatorial Pacific sea surface temperature variability and trends with Sr/Ca records from multiple corals. <i>Paleoceanography</i> , 2016, 31, 252-265.	3.0	48
48	An investigation of the calcification response of the scleractinian coral <i>Astrangia poculata</i> to elevated pCO <sub>2</sub> and the effects of nutrients, zooxanthellae and gender. <i>Biogeosciences</i> , 2012, 9, 29-39.	3.3	43
49	Coral Sr thermometry. <i>Paleoceanography</i> , 2016, 31, 626-638.	3.0	41
50	In situ <sup>7</sup> Li, Li/Ca, and Mg/Ca analyses of synthetic aragonites. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	2.5	38
51	The challenges of detecting and attributing ocean acidification impacts on marine ecosystems. <i>ICES Journal of Marine Science</i> , 2020, 77, 2411-2422.	2.5	36
52	Corals record persistent multidecadal SST variability in the Atlantic Warm Pool since 1775 AD. <i>Paleoceanography</i> , 2012, 27, .	3.0	35
53	Skeletal records of community-level bleaching in <i>Porites</i> corals from Palau. <i>Coral Reefs</i> , 2016, 35, 1407-1417.	2.2	35
54	El Niño-associated catastrophic coral mortality at Jarvis Island, central Equatorial Pacific. <i>Coral Reefs</i> , 2019, 38, 731-741.	2.2	35

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55	Fate of Internal Waves on a Shallow Shelf. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015377.	2.6	35
56	Environmentally controlled variation in the structure and mineralogy of <i>Patella granularis</i> shells from the coast of southern Africa: implications for palaeotemperature assessments. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1992, 91, 49-57.	2.3	34
57	Influence of open ocean nitrogen supply on the skeletal $\delta^{15}\text{N}$ of modern shallow-water scleractinian corals. <i>Earth and Planetary Science Letters</i> , 2016, 441, 125-132.	4.4	34
58	Tidal modulation of Sr/Ca ratios in a Pacific reef coral. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	33
59	Oxygen isotope fractionation between aragonite and seawater: Developing a novel kinetic oxygen isotope fractionation model. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 117, 232-251.	3.9	32
60	An evaluation of staining techniques for marking daily growth in scleractinian corals. <i>Journal of Experimental Marine Biology and Ecology</i> , 2013, 440, 126-131.	1.5	32
61	Relationship between water and aragonite barium concentrations in aquaria reared juvenile corals. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 209, 123-134.	3.9	29
62	Natural forcing of the North Atlantic nitrogen cycle in the Anthropocene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10606-10611.	7.1	29
63	Mechanisms and thresholds for pH tolerance in Palau corals. <i>Journal of Experimental Marine Biology and Ecology</i> , 2017, 489, 7-14.	1.5	25
64	Increasing Coral Reef Resilience Through Successive Marine Heatwaves. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094128.	4.0	22
65	Ocean Acidification Has Impacted Coral Growth on the Great Barrier Reef. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086761.	4.0	19
66	Recovery of temperature records from slow-growing corals by fine scale sampling of skeletons. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	18
67	Low and variable ecosystem calcification in a coral reef lagoon under natural acidification. <i>Limnology and Oceanography</i> , 2018, 63, 714-730.	3.1	17
68	Twentieth century warming of the tropical Atlantic captured by Sr/Ca paleothermometry. <i>Paleoceanography</i> , 2017, 32, 146-160.	3.0	15
69	Skeletal records of bleaching reveal different thermal thresholds of Pacific coral reef assemblages. <i>Coral Reefs</i> , 2019, 38, 743-757.	2.2	15
70	Mid-Holocene, Coral-Based Sea Surface Temperatures in the Western Tropical Atlantic. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1234-1245.	2.9	11
71	Physical Processes Determine Spatial Structure in Water Temperature and Residence Time on a Wide Reef Flat. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016543.	2.6	11
72	Tropical Atlantic climate response to low-latitude and extratropical sea-surface temperature: A Little Ice Age perspective. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	10

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73	Crystallographic and chemical signatures in coral skeletal aragonite. <i>Coral Reefs</i> , 2022, 41, 19-34.	2.2	10
74	Coral Bleaching on Johnston Atoll, Central Pacific Ocean. <i>Biological Bulletin</i> , 1997, 193, 276-279.	1.8	8
75	The Future of Coral Reefsâ€™ Response. <i>Science</i> , 2011, 334, 1495-1496.	12.6	8
76	Reply to Iglesias-Prieto et al.: Combined field and laboratory approaches for the study of coral calcification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E302-E303.	7.1	8
77	Mitigation of Coral Reef Warming Across the Central Pacific by the Equatorial Undercurrent: A Past and Future Divide. <i>Scientific Reports</i> , 2016, 6, 21213.	3.3	8
78	Juveniles of the Atlantic coral, <i>Favia fragum</i> (Esper, 1797) do not invest energy to maintain calcification under ocean acidification. <i>Journal of Experimental Marine Biology and Ecology</i> , 2018, 507, 61-69.	1.5	8
79	Comment on â€œEquatorial Pacific coral geochemical records show recent weakening of the Walker circulationâ€• by J. Carilli et al.. <i>Paleoceanography</i> , 2015, 30, 570-574.	3.0	5
80	Uptake of groundwater nitrogen by a near-shore coral reef community on Bermuda. <i>Coral Reefs</i> , 2020, 39, 215-228.	2.2	5
81	Validation of the remotely sensed nighttime sea surface temperature in the shallow waters at the Dongsha Atoll. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2017, 28, 517-524.	0.6	5
82	Imaging Coral II: Using Ultrasound to Image Coral Skeleton. <i>Subsurface Sensing Technologies and Applications</i> , 2004, 5, 43-61.	0.9	4
83	Observations and a Model of Net Calcification Declines in Palau's Largest Coral Reef Lagoon Between 1992 and 2015. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016147.	2.6	1