Janice Lough

List of Publications by Year
in descending order

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136	20,451	22132	12933
papers	citations	59 h-index	131 g-index

141	141	141	14092
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Climate Change, Human Impacts, and the Resilience of Coral Reefs. Science, 2003, 301, 929-933.	6.0	3,124
2	Global warming and recurrent mass bleaching of corals. Nature, 2017, 543, 373-377.	13.7	2,363
3	Spatial and temporal patterns of mass bleaching of corals in the Anthropocene. Science, 2018, 359, 80-83.	6.0	1,515
4	Coral reefs in the Anthropocene. Nature, 2017, 546, 82-90.	13.7	1,329
5	Losers and winners in coral reefs acclimatized to elevated carbon dioxide concentrations. Nature Climate Change, 2011, 1, 165-169.	8.1	856
6	Variability in the El Nino-Southern Oscillation Through a Glacial-Interglacial Cycle. Science, 2001, 291, 1511-1517.	6.0	833
7	Coral record of increased sediment flux to the inner Great Barrier Reef since European settlement. Nature, 2003, 421, 727-730.	13.7	610
8	High-resolution palaeoclimatology of the last millennium: a review of current status and future prospects. Holocene, 2009, 19, 3-49.	0.9	588
9	Declining Coral Calcification on the Great Barrier Reef. Science, 2009, 323, 116-119.	6.0	567
10	Environmental controls on growth of the massive coral Porites. Journal of Experimental Marine Biology and Ecology, 2000, 245, 225-243.	0.7	486
11	The coral reef crisis: The critical importance of<350ppm CO2. Marine Pollution Bulletin, 2009, 58, 1428-1436.	2.3	367
12	Abrupt Decrease in Tropical Pacific Sea Surface Salinity at End of Little Ice Age. Science, 2002, 295, 1511-1514.	6.0	274
13	Mixed responses of tropical Pacific fisheries and aquaculture to climate change. Nature Climate Change, 2013, 3, 591-599.	8.1	251
14	Climate change and coral reef connectivity. Coral Reefs, 2009, 28, 379-395.	0.9	242
15	Projected climate change in Australian marine and freshwater environments. Marine and Freshwater Research, 2011, 62, 1000.	0.7	242
16	Spatial patterns of precipitation in England and Wales and a revised, homogeneous England and Wales precipitation series. Journal of Climatology, 1984, 4, 1-25.	0.8	238
17	Declining coral calcification in massive Porites in two nearshore regions of the northern Great Barrier Reef. Global Change Biology, 2008, 14, 529-538.	4.2	222
18	Changes in Climate Extremes Over the Australian Region and New Zealand During the Twentieth Century. Climatic Change, 1999, 42, 183-202.	1.7	216

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19	Several centuries of variation in skeletal extension, density and calcification in massive Porites colonies from the Great Barrier Reef: A proxy for seawater temperature and a background of variability against which to identify unnatural change. Journal of Experimental Marine Biology and Ecology, 1997, 211, 29-67.	0.7	192
20	On the nature and causes of density banding in massive coral skeletons. Journal of Experimental Marine Biology and Ecology, 1993, 167, 91-108.	0.7	190
21	The Coral Trait Database, a curated database of trait information for coral species from the global oceans. Scientific Data, 2016, 3, 160017.	2.4	189
22	Preindustrial to Modern Interdecadal Variability in Coral Reef pH. Science, 2005, 309, 2204-2207.	6.0	186
23	Increasing thermal stress for tropical coral reefs: 1871â€“2017. Scientific Reports, 2018, 8, 6079.	1.6	182
24	Tropical Atlantic Sea Surface Temperatures and Rainfall Variations in Subsaharan Africa. Monthly Weather Review, 1986, 114, 561-570.	0.5	158
25	Temporal variation of light availability in coastal benthic habitats: Effects of clouds, turbidity, and tides. Limnology and Oceanography, 2004, 49, 2201-2211.	1.6	158
26	New insights from coral growth band studies in an era of rapid environmental change. Earth-Science Reviews, 2011, 108, 170-184.	4.0	138
27	Growth of Western Australian Corals in the Anthropocene. Science, 2012, 335, 593-596.	6.0	130
28	Palaeohydrological variation in a tropical river catchment: a reconstruction using fluorescent bands in corals of the Great Barrier Reef, Australia. Holocene, 1998, 8, 1-8.	0.9	128
29	Chronological control of coral records using luminescent lines and evidence for non-stationary ENSO teleconnections in northeast Australia. Holocene, 2003, 13, 187-199.	0.9	124
30	An assessment of the possible effects of volcanic eruptions on North American climate using tree-ring data, 1602 to 1900 A.D.. Climatic Change, 1987, 10, 219-239.	1.7	123
31	A strategy to improve the contribution of coral data to high-resolution paleoclimatology. Palaeogeography, Palaeoclimatology, Palaeoecology, 2004, 204, 115-143.	1.0	122
32	A multi-trace element coral record of land-use changes in the Burdekin River catchment, NE Australia. Palaeogeography, Palaeoclimatology, Palaeoecology, 2007, 246, 471-487.	1.0	122
33	Drought variability in the eastern Australia and New Zealand summer drought atlas (ANZDA, CE) Tj ETQq1 1 0.784314 rgBT /Overlock 1 124002.	2.2	121
34	Carbonate clumped isotope variability in shallow water corals: Temperature dependence and growth-related vital effects. Geochimica Et Cosmochimica Acta, 2012, 99, 224-242.	1.6	120
35	Observed climate change in Australian marine and freshwater environments. Marine and Freshwater Research, 2011, 62, 984.	0.7	115
36	Surviving Coral Bleaching Events: Porites Growth Anomalies on the Great Barrier Reef. PLoS ONE, 2014, 9, e88720.	1.1	114

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37	Tropical river flow and rainfall reconstructions from coral luminescence: Great Barrier Reef, Australia. Paleoceanography, 2007, 22, .	3.0	113
38	Potential role of the ocean thermostat in determining regional differences in coral reef bleaching events. Geophysical Research Letters, 2008, 35, .	1.5	108
39	Coral calcification from skeletal records revisited. Marine Ecology - Progress Series, 2008, 373, 257-264.	0.9	106
40	Systematic variations in the depth of skeleton occupied by coral tissue in massive colonies of Porites from the Great barrier reef. Journal of Experimental Marine Biology and Ecology, 1992, 159, 113-128.	0.7	103
41	1997-98: Unprecedented thermal stress to coral reefs?. Geophysical Research Letters, 2000, 27, 3901-3904.	1.5	97
42	Climate records from corals. Wiley Interdisciplinary Reviews: Climate Change, 2010, 1, 318-331.	3.6	90
43	Climate Variability and Change: Monitoring Data and Evidence for Increased Coral Bleaching Stress. Ecological Studies, 2009, , 41-67.	0.4	90
44	Corals record long-term Leeuwin current variability including Ningaloo NiÃ±o/NiÃ±a since 1795. Nature Communications, 2014, 5, 3607.	5.8	89
45	Impact of skeletal dissolution and secondary aragonite on trace element and isotopic climate proxies in Porites corals. Paleoceanography, 2007, 22, .	3.0	86
46	Comparisons of skeletal density variations in Porites from the central Great Barrier Reef. Journal of Experimental Marine Biology and Ecology, 1992, 155, 1-25.	0.7	82
47	Climate and Climate Impact Scenarios for Europe in a Warmer World. Journal of Climate and Applied Meteorology, 1983, 22, 1673-1684.	1.0	78
48	Perspectives on Massive Coral Growth Rates in a Changing Ocean. Biological Bulletin, 2014, 226, 187-202.	0.7	77
49	Intra-annual timing of density band formation of Porites coral from the central Great Barrier Reef. Journal of Experimental Marine Biology and Ecology, 1990, 135, 35-57.	0.7	76
50	Great Barrier Reef coral luminescence reveals rainfall variability over northeastern Australia since the 17th century. Paleoceanography, 2011, 26, .	3.0	74
51	The nature of skeletal density banding in scleractinian corals: fine banding and seasonal patterns. Journal of Experimental Marine Biology and Ecology, 1989, 126, 119-134.	0.7	68
52	On the inclusion of trace materials into massive coral skeletons. Part II: distortions in skeletal records of annual climate cycles due to growth processes. Journal of Experimental Marine Biology and Ecology, 1995, 194, 251-275.	0.7	67
53	Luminescent lines in corals from the Great Barrier Reef provide spatial and temporal records of reefs affected by land runoff. Coral Reefs, 2002, 21, 333-343.	0.9	67
54	Freshwater impacts in the central Great Barrier Reef: 1648â€“2011. Coral Reefs, 2015, 34, 739-751.	0.9	67

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55	Climate variation and El Nïï¿½o-Southern Oscillation events on the Great Barrier Reef: 1958 to 1987. Coral Reefs, 1994, 13, 181-185.	0.9	66
56	Shifting climate zones for Australia's tropical marine ecosystems. Geophysical Research Letters, 2008, 35, .	1.5	66
57	Simple models of density band formation in massive corals. Journal of Experimental Marine Biology and Ecology, 1993, 167, 109-125.	0.7	64
58	Porites growth characteristics in a changed environment: Misima Island, Papua New Guinea. Coral Reefs, 1999, 18, 213-218.	0.9	63
59	Coral skeletons: storage and recovery of environmental information. Global Change Biology, 1996, 2, 569-582.	4.2	62
60	Rainfall variations in Queensland, Australia: 1891â€“1986. International Journal of Climatology, 1991, 11, 745-768.	1.5	62
61	10th Anniversary Review: a changing climate for coral reefs. Journal of Environmental Monitoring, 2008, 10, 21-29.	2.1	62
62	Coral record of southeast Indian Ocean marine heatwaves with intensified Western Pacific temperature gradient. Nature Communications, 2015, 6, 8562.	5.8	62
63	Small change, big difference: Sea surface temperature distributions for tropical coral reef ecosystems, 1950â€“2011. Journal of Geophysical Research, 2012, 117, .	3.3	60
64	Assessing amino acid racemization variability in coral intra-crystalline protein for geochronological applications. Geochimica Et Cosmochimica Acta, 2012, 86, 338-353.	1.6	56
65	The Southern Oscillation and Tree Rings: 1600â€“1961. Journal of Climate and Applied Meteorology, 1985, 24, 952-966.	1.0	53
66	Spatial variability of initial 230Th/232Th in modern Porites from the inshore region of the Great Barrier Reef. Geochimica Et Cosmochimica Acta, 2012, 78, 99-118.	1.6	53
67	Possible relationships between environmental variables and skeletal density in a coral colony from the central Great Barrier Reef. Journal of Experimental Marine Biology and Ecology, 1989, 134, 221-241.	0.7	51
68	Interdecadal climate variability in the Coral Sea since 1708 A.D.. Palaeogeography, Palaeoclimatology, Palaeoecology, 2007, 248, 190-201.	1.0	47
69	An estimate of average annual temperature variations for North America, 1602 to 1961. Climatic Change, 1985, 7, 203-224.	1.7	46
70	Coastal climate of northwest Australia and comparisons with the Great Barrier Reef: 1960 to 1992. Coral Reefs, 1998, 17, 351-367.	0.9	46
71	REGIONAL INDICES OF CLIMATE VARIATION: TEMPERATURE AND RAINFALL IN QUEENSLAND, AUSTRALIA. International Journal of Climatology, 1997, 17, 55-66.	1.5	44
72	On the inclusion of trace materials into massive coral skeletons. 1. Materials occurring in the environment in short pulses. Journal of Experimental Marine Biology and Ecology, 1995, 185, 255-278.	0.7	43

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73	Historical mortality in massive Porites from the central Great Barrier Reef, Australia: evidence for past environmental stress?. Coral Reefs, 2003, 22, 207-215.	0.9	37
74	An assessment of an environmental gradient using coral geochemical records, Whitsunday Islands, Great Barrier Reef, Australia. Marine Pollution Bulletin, 2012, 65, 306-319.	2.3	36
75	Measured coral luminescence as a freshwater proxy: comparison with visual indices and a potential age artefact. Coral Reefs, 2011, 30, 169-182.	0.9	35
76	Measurement of luminescence in coral skeletons. Journal of Experimental Marine Biology and Ecology, 2003, 295, 91-106.	0.7	33
77	Growth and luminescence characteristics in skeletons of massive Porites from a depth gradient in the central Great Barrier Reef. Journal of Experimental Marine Biology and Ecology, 2007, 351, 27-36.	0.7	32
78	A critical evaluation of coral Ba/Ca, Mn/Ca and Y/Ca ratios as indicators of terrestrial input: New data from the Great Barrier Reef, Australia. Geochimica Et Cosmochimica Acta, 2018, 237, 131-154.	1.6	31
79	Evidence for climateâ€driven synchrony of marine and terrestrial ecosystems in northwest Australia. Global Change Biology, 2016, 22, 2776-2786.	4.2	30
80	Variations of some seasonal rainfall characteristics in Queensland, Australia: 1921â€“1987. International Journal of Climatology, 1993, 13, 391-409.	1.5	29
81	Density measurements and the interpretation of X-radiographic images of slices of skeleton from the colonial hard coral Porites. Journal of Experimental Marine Biology and Ecology, 1989, 131, 45-60.	0.7	28
82	Coral growth bands: A new and easy to use paleothermometer in paleoenvironment analysis and paleoceanography (late Miocene, Greece). Paleoceanography, 2006, 21, .	3.0	27
83	Yes â€” Coral calcification rates have decreased in the last twenty-five years!. Marine Geology, 2013, 346, 400-402.	0.9	26
84	Trace analysis of hydrocarbons in coral cores from Saudi Arabia. Organic Geochemistry, 2006, 37, 1913-1930.	0.9	25
85	The paleoclimate context and future trajectory of extreme summer hydroclimate in eastern Australia. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12820-12838.	1.2	24
86	Variations of sea-surface temperatures off north-eastern Australia and associations with rainfall in Queensland: 1956â€“1987. International Journal of Climatology, 1992, 12, 765-782.	1.5	23
87	Temperature variations in a tropical-subtropical environment: Queensland, Australia, 1910â€“1987. International Journal of Climatology, 1995, 15, 77-95.	1.5	23
88	Development of an inshore fringing coral reef using textural, compositional and stratigraphic data from Magnetic Island, Great Barrier Reef, Australia. Marine Geology, 2012, 299-302, 18-32.	0.9	23
89	Environmental drivers of growth in massive Porites corals over 16 degrees of latitude along Australia's northwest shelf. Limnology and Oceanography, 2016, 61, 684-700.	1.6	23
90	Ocean acidification: Linking science to management solutions using the Great Barrier Reef as a case study. Journal of Environmental Management, 2016, 182, 641-650.	3.8	22

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91	Effect of early marine diagenesis on coral reconstructions of surface-ocean13C/12C and carbonate saturation state. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	1.9	21
92	Changes in Climate Extremes Over the Australian Region and New Zealand During the Twentieth Century. , 1999, , 183-202.		21
93	Computer simulations showing the likely effects of calix architecture and other factors on retrieval of density information from coral skeletons. Journal of Experimental Marine Biology and Ecology, 1990, 137, 141-164.	0.7	20
94	Climate variability of the Great Barrier Reef in relation to the tropical Pacific and El NiÃ±o-Southern Oscillation. Marine and Freshwater Research, 2012, 63, 34.	0.7	20
95	Coral skeletons reveal the history of nitrogen cycling in the coastal Great Barrier Reef. Nature Communications, 2020, 11, 1500.	5.8	20
96	Luminescence and density banding patterns in massive Porites corals around the Thai-Malay Peninsula, Southeast Asia. Limnology and Oceanography, 2016, 61, 2003-2026.	1.6	19
97	Coral Skeletons Record Increasing Agricultureâ€Related Groundwater Nitrogen Inputs to a South Pacific Reef Over the Past Century. Geophysical Research Letters, 2018, 45, 8370-8378.	1.5	19
98	Modelling coral calcification accounting for the impacts of coral bleaching and ocean acidification. Biogeosciences, 2015, 12, 2607-2630.	1.3	18
99	Synthesis: Coral Bleaching: Patterns, Processes, Causes and Consequences. Ecological Studies, 2018, , 343-348.	0.4	18
100	Coral-based high-resolution rare earth element proxy for terrestrial sediment discharge affecting coastal seawater quality, Great Barrier Reef. Geochimica Et Cosmochimica Acta, 2019, 254, 173-191.	1.6	18
101	Senegal River runoff. Nature, 1981, 293, 414-414.	13.7	16
102	The influence of temperature and vital effects on magnesium isotope variability in Porites and Astrangia corals. Chemical Geology, 2013, 360-361, 105-117.	1.4	16
103	Evidence for suppressed mid-Holocene northeastern Australian monsoon variability from coral luminescence. Paleoceanography, 2014, 29, 581-594.	3.0	16
104	Measurement of density in slices of coral skeleton: effect of densitometer beam diameter. Journal of Experimental Marine Biology and Ecology, 1990, 143, 91-99.	0.7	15
105	Evidence of reduced midâ€Holocene ENSO variance on the Great Barrier Reef, Australia. Paleoceanography, 2016, 31, 1248-1260.	3.0	15
106	Introduction: Coral Bleaching â€" Patterns, Processes, Causes and Consequences. Ecological Studies, 2009, , 1-5.	0.4	14
107	Multi-trace-element sea surface temperature coral reconstruction for the southern Mozambique Channel reveals teleconnections with the tropical Atlantic. Biogeosciences, 2019, 16, 695-712.	1.3	12
108	Impacts of Coral Growth on Geochemistry: Lessons From the GalÃ¡pagos Islands. Paleoceanography and Paleoclimatology, 2021, 36, e2020PA004051.	1.3	12

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109	Pharmacokinetic modelling of multi-decadal luminescence time series in coral skeletons. Geochimica Et Cosmochimica Acta, 2012, 83, 263-271.	1.6	11
110	The potential of massive corals for the study of high-resolution climate variation in the past millennium. , 1996, , 355-371.		11
111	Comparison of Sea Level Pressure Reconstructions from Western North American Tree Rings with a Proxy Record of Winter Severity in Japan. Journal of Climate and Applied Meteorology, 1985, 24, 1219-1224.	1.0	9
112	Growth responses of branching versus massive corals to ocean warming on the Great Barrier Reef, Australia. Science of the Total Environment, 2020, 705, 135908.	3.9	9
113	Variations in massive Porites growth rates at Hainan Island, northern South China Sea. Marine Ecology - Progress Series, 2016, 546, 47-60.	0.9	9
114	Estimating north pacific summer sea-level pressure back to 1600 using proxy climate records from China and North America. Advances in Atmospheric Sciences, 1987, 4, 74-84.	1.9	8
115	Turning back time. Nature, 2016, 531, 314-315.	13.7	8
116	Linking climate variability and growth in coral skeletal records from the Great Barrier Reef. Coral Reefs, 2019, 38, 29-43.	0.9	8
117	Use of skeletal Sr/Ca ratios to determine growth patterns in a branching coral Isopora palifera. Marine Biology, 2017, 164, 1.	0.7	7
118	Presence of skeletal banding in a reef-building tropical crustose coralline alga. PLoS ONE, 2017, 12, e0185124.	1.1	6
119	Commentary: Reconstructing Four Centuries of Temperature-Induced Coral Bleaching on the Great Barrier Reef. Frontiers in Marine Science, 2019, 6, .	1.2	6
120	Has Nitrogen Supply to Coral Reefs in the South Pacific Ocean Changed Over the Past 50 Thousand Years?. Paleoceanography and Paleoclimatology, 2019, 34, 567-579.	1.3	6
121	SURFACE OCEAN RADIOCARBON FROM A PORITES CORAL RECORD IN THE GREAT BARRIER REEF: 1945â€“2017. Radiocarbon, 2021, 63, 1193-1203.	0.8	6
122	Impacts of Climate Change on Marine Resources in the Pacific Island Region. Springer Climate, 2020, , 359-402.	0.3	6
123	Temporal and taxonomic contrasts in coral growth at Davies Reef, central Great Barrier Reef, Australia. Coral Reefs, 2018, 37, 409-421.	0.9	5
124	Climate Variability and Change on the Great Barrier Reef. , 2000, , 269-300.		5
125	Marginal Reefs Under Stress: Physiological Limits Render GalÃ¡pagos Corals Susceptible to Ocean Acidification and Thermal Stress. AGU Advances, 2022, 3, .	2.3	5
126	Climate Variability and Change: Monitoring Data and Evidence for Increased Coral Bleaching Stress. Ecological Studies, 2018, , 51-84.	0.4	4

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127	Assessing multiproxy approaches (Sr/Ca, U/Ca, Li/Mg, and B/Mg) to reconstruct sea surface temperature from coral skeletons throughout the Great Barrier Reef. Science of the Total Environment, 2021, 786, 147393.	3.9	4
128	Climate Change and Coral Reefs. Encyclopedia of Earth Sciences Series, 2011, , 198-210.	0.1	4
129	Introduction: Coral Bleachingâ€“Patterns, Processes, Causes and Consequences. Ecological Studies, 2018, , 1-8.	0.4	2
130	Can coral skeletal-bound nitrogen isotopes be used as a proxy for past bleaching?. Biogeochemistry, 2020, 151, 31-41.	1.7	2
131	Long-term growth trends of massive Porites corals across a latitudinal gradient in the Indo-Pacific. Marine Ecology - Progress Series, 2019, 626, 69-82.	0.9	2
132	Low Florida coral calcification rates in the Plio-Pleistocene. Biogeosciences, 2016, 13, 4513-4532.	1.3	1
133	Effect of intraband variability on stable isotope and density time series obtained from banded corals. Journal of Earth System Science, 2000, 109, 145-151.	0.6	0
134	Reply to Comment on â€˜Drought variability in the eastern Australia and New Zealand summer drought atlas (ANZDA, CE 1500â€“2012) modulated by the Interdecadal Pacific Oscillationâ€™. Environmental Research Letters, 2017, 12, 068002.	2.2	0
135	Australiaâ€™s Great Barrier Reef. , 2019, , 333-362.		0
136	A changing climate: evidence and consequences. Microbiology Australia, 2009, 30, 58.	0.1	0