Chris Langdon

List of Publications by Year
in descending order

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92 papers	9,471 citations	50276 46 h-index	49909 87 g-index
95 all docs	95 docs citations	95 times ranked	7498 citing authors

#	Article	IF	Citations
1	Geochemical Consequences of Increased Atmospheric Carbon Dioxide on Coral Reefs. Science, 1999, 284, 118-120.	12.6	1,170
2	Losers and winners in coral reefs acclimatized to elevated carbon dioxide concentrations. Nature Climate Change, 2011, 1, 165-169.	18.8	856
3	Effect of calcium carbonate saturation state on the calcification rate of an experimental coral reef. Global Biogeochemical Cycles, 2000, 14, 639-654.	4.9	496
4	Effect of elevated pCO2on photosynthesis and calcification of corals and interactions with seasonal change in temperature/irradiance and nutrient enrichment. Journal of Geophysical Research, 2005, 110, .	3.3	488
5	The Pacific oyster, Crassostrea gigas, shows negative correlation to naturally elevated carbon dioxide levels: Implications for nearâ€term ocean acidification effects. Limnology and Oceanography, 2012, 57, 698-710.	3.1	424
6	Elevated consumption of carbon relative to nitrogen in the surface ocean. Nature, 1993, 363, 248-250.	27.8	323
7	Relationships between lorica volume, carbon, nitrogen, and ATP content of tintinnids In Narragansett Bay. Journal of Plankton Research, 1984, 6, 859-868.	1.8	299
8	Poorly cemented coral reefs of the eastern tropical Pacific: Possible insights into reef development in a high-CO ₂ world. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10450-10455.	7.1	265
9	Vulnerability and adaptation of US shellfisheries to ocean acidification. Nature Climate Change, 2015, 5, 207-214.	18.8	265
10	Ocean acidification compromises recruitment success of the threatened Caribbean coral Acropora palmata. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20400-20404.	7.1	234
11	A comparison of four methods for determining planktonic community production1. Limnology and Oceanography, 1987, 32, 1085-1098.	3.1	221
12	Effect of elevated CO2on the community metabolism of an experimental coral reef. Global Biogeochemical Cycles, 2003, 17, .	4.9	189
13	On the causes of interspecific differences in the growth-irradiance relationship for phytoplankton. II. A general review. Journal of Plankton Research, 1988, 10, 1291-1312.	1.8	186
14	Changes in Ocean Heat, Carbon Content, and Ventilation: A Review of the First Decade of GO-SHIP Global Repeat Hydrography. Annual Review of Marine Science, 2016, 8, 185-215.	11.6	183
15	Dependence of calcification on light and carbonate ion concentration for the hermatypic coral Porites compressa. Marine Ecology - Progress Series, 2001, 220, 153-162.	1.9	180
16	Ocean acidification impacts multiple early life history processes of the Caribbean coral Porites astreoides. Global Change Biology, 2011, 17, 2478-2487.	9.5	178
17	Effects of elevated pCO₂ on dissolution of coral carbonates by microbial euendoliths. Global Biogeochemical Cycles, 2009, 23, .	4.9	160
18	Coral reefs and changing seawater carbonate chemistry. Coastal and Estuarine Studies, 2006, , 73-110.	0.4	129

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19	Changing the way we think about global change research: scaling up in experimental ecosystem science. Global Change Biology, 2004, 10, 393-407.	9.5	126
20	Effect of aragonite saturation state on settlement and post-settlement growth of Porites astreoides larvae. Coral Reefs, 2008, 27, 485-490.	2.2	123
21	Dynamics of seawater carbonate chemistry, production, and calcification of a coral reef flat, central Great Barrier Reef. Biogeosciences, 2013, 10, 6747-6758.	3.3	118
22	On the causes of interspecific differences in the growth-irradiance relationship for phytoplankton. Part I. A comparative study of the growth-irradiance relationship of three marine phytoplankton species: Skeletonema costatum, Olisthodiscus luteus and Gonyaulax tamarensis. Journal of Plankton Research, 1987, 9, 459-482.	1.8	113
23	Gas transfer experiment on Georges Bank using two volatile deliberate tracers. Journal of Geophysical Research, 1993, 98, 20237-20248.	3.3	110
24	Seasonal variability of bio-optical and physical properties in the Arabian Sea: October 1994â€“October 1995. Deep-Sea Research Part II: Topical Studies in Oceanography, 1998, 45, 2001-2025.	1.4	109
25	Threatened Caribbean Coral Is Able to Mitigate the Adverse Effects of Ocean Acidification on Calcification by Increasing Feeding Rate. PLoS ONE, 2015, 10, e0123394.	2.5	99
26	Ocean acidification along the Gulf Coast and East Coast of the USA. Continental Shelf Research, 2015, 98, 54-71.	1.8	96
27	Taking the metabolic pulse of the worldâ€™s coral reefs. PLoS ONE, 2018, 13, e0190872.	2.5	96
28	Differential effects of copper on three species of scleractinian corals and their algal symbionts (Symbiodinium spp.). Aquatic Toxicology, 2010, 97, 125-133.	4.0	95
29	ENDOLITHIC MICROFLORA ARE MAJOR PRIMARY PRODUCERS IN DEAD CARBONATE SUBSTRATES OF HAWAIIAN CORAL REEFS1. Journal of Phycology, 2006, 42, 292-303.	2.3	86
30	Rates of respiration in the light measured in marine phytoplankton using an 18O isotope-labelling technique. Journal of Experimental Marine Biology and Ecology, 1989, 129, 95-120.	1.5	83
31	Dynamics of carbonate chemistry, production, and calcification of the Florida Reef Tract (2009â€“2010): Evidence for seasonal dissolution. Global Biogeochemical Cycles, 2016, 30, 661-688.	4.9	79
32	Controls on surface water carbonate chemistry along North American ocean margins. Nature Communications, 2020, 11, 2691.	12.8	77
33	Decadal changes in Pacific carbon. Journal of Geophysical Research, 2008, 113, .	3.3	76
34	Coral Reefs and People in a High-CO2 World: Where Can Science Make a Difference to People?. PLoS ONE, 2016, 11, e0164699.	2.5	64
35	Speciesâ€specific responses to climate change and community composition determine future calcification rates of Florida Keys reefs. Global Change Biology, 2017, 23, 1023-1035.	9.5	61
36	Dissolved oxygen monitoring system using a pulsed electrode: design, performance, and evoluation. Deep-sea Research Part A, Oceanographic Research Papers, 1984, 31, 1357-1367.	1.5	60

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37	Primary production, water column changes, and the demise of a Phaeocystis bloom at the Marine Light-Mixed Layers site (59Â°N, 21Â°W) in the northeast Atlantic Ocean. Journal of Geophysical Research, 1995, 100, 6633.	3.3	60
38	Climate variability in the North Pacific thermocline diagnosed from oxygen measurements: An update based on the U.S. CLIVAR/CO₂ Repeat Hydrography cruises. Global Biogeochemical Cycles, 2008, 22, .	4.9	60
39	Concurrent high resolution bioâ€optical and physical time series observations in the Sargasso Sea during the spring of 1987. Journal of Geophysical Research, 1991, 96, 8643-8663.	3.3	58
40	Seasonal variability of bioâ€optical and physical properties in the Sargasso Sea. Journal of Geophysical Research, 1993, 98, 865-898.	3.3	58
41	Summer plankton production and nutrient consumption patterns in the Mertz Glacier Region of East Antarctica. Deep-Sea Research Part II: Topical Studies in Oceanography, 2003, 50, 1393-1414.	1.4	57
42	Particulate matter production and consumption in deep mixed layers: observations in a warm-core ring. Deep-sea Research Part A, Oceanographic Research Papers, 1986, 33, 1813-1841.	1.5	56
43	Shortâ€term and seasonal pH,pCO₂and saturation state variability in a coralâ€reef ecosystem. Global Biogeochemical Cycles, 2012, 26, .	4.9	56
44	Diurnal variation in surface pCO2 and O2 at 60Â°N, 20Â°W in the North Atlantic. Deep-Sea Research Part II: Topical Studies in Oceanography, 1993, 40, 409-422.	1.4	55
45	Inorganic carbon dynamics during northern California coastal upwelling. Continental Shelf Research, 2011, 31, 1180-1192.	1.8	55
46	Multiple Stressors and Ecological Complexity Require a New Approach to Coral Reef Research. Frontiers in Marine Science, 2016, 3, .	2.5	49
47	Distribution and composition of biogenic particulate matter in a Gulf Stream warm-core ring. Deep-sea Research Part A, Oceanographic Research Papers, 1985, 32, 1347-1369.	1.5	48
48	Juvenile growth of the tropical sea urchin Lytechinus variegatus exposed to near-future ocean acidification scenarios. Journal of Experimental Marine Biology and Ecology, 2012, 426-427, 12-17.	1.5	46
49	The relationship between heterotrophic feeding and inorganic nutrient availability in the scleractinian coralT. reniformisunder a short-term temperature increase. Limnology and Oceanography, 2016, 61, 89-102.	3.1	46
50	Seasonal variations in the phytoplankton biomass and productivity of a warm-core Gulf Stream ring. Deep-sea Research Part A, Oceanographic Research Papers, 1985, 32, 1287-1300.	1.5	44
51	Responses of the tropical gorgonian coral Eunicea fusca to ocean acidification conditions. Coral Reefs, 2015, 34, 451-460.	2.2	41
52	Effects of elevated p CO2 on epilithic and endolithic metabolism of reef carbonates. Global Change Biology, 2006, 12, 2200-2208.	9.5	40
53	Increased temperature mitigates the effects of ocean acidification in calcified green algae (Halimeda) Tj ETQq1 1 0.784314 rgBT /Ove	2.2	39
54	Estimation of seasonal primary production from moored optical sensors in the Sargasso Sea. Journal of Geophysical Research, 1992, 97, 7399-7412.	3.3	38

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55	Factors controlling the rate of CaCO3precipitation on Great Bahama Bank. Global Biogeochemical Cycles, 2001, 15, 589-596.	4.9	38
56	Productivity of a coral reef using boundary layer and enclosure methods. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	37
57	Comment on â€œModernâ€•age buildup of CO₂ and its effects on seawater acidity and salinityâ€• by Hugo A. LoÃ¡iciga. Geophysical Research Letters, 2007, 34, .	4.0	36
58	Multiple driving factors explain spatial and temporal variability in coral calcification rates on the Bermuda platform. Coral Reefs, 2014, 33, 979-997.	2.2	34
59	The Biosphere 2 coral reef biome. Ecological Engineering, 1999, 13, 147-172.	3.6	33
60	Present and future changes in seawater chemistry due to ocean acidification. Geophysical Monograph Series, 2009, , 175-188.	0.1	32
61	Short-term changes in the biology of a Gulf Stream warm-core ring: Phytoplankton biomass and productivity1. Limnology and Oceanography, 1987, 32, 919-928.	3.1	31
62	Monsoonal differences in phytoplankton biomass and production in the Indonesian Seas: tracing vertical mixing using temperature. Deep-Sea Research Part I: Oceanographic Research Papers, 1997, 44, 581-592.	1.4	30
63	Responses of calcifying algae (Halimeda spp.) to ocean acidification: implications for herbivores. Marine Ecology - Progress Series, 2014, 514, 43-56.	1.9	29
64	A multiâ€tracer model approach to estimate reef water residence times. Limnology and Oceanography: Methods, 2012, 10, 1078-1095.	2.0	28
65	Moored instruments weather Arabian Sea monsoons, yield data. Eos, 1997, 78, 117.	0.1	27
66	Production-respiration relationships at different timescales within the Biosphere 2 coral reef biome. Limnology and Oceanography, 2001, 46, 1653-1660.	3.1	27
67	Comment on â€œCoral reef calcification and climate change: The effect of ocean warmingâ€• Geophysical Research Letters, 2005, 32, .	4.0	27
68	Stress-tolerant corals of Florida Bay are vulnerable to ocean acidification. Coral Reefs, 2013, 32, 671-683.	2.2	27
69	Measurements of net and gross O2production, dark O2respiration, and14C assimilation at the Marine Light-Mixed Layers site (59Â°N, 21Â°W) in the northeast Atlantic Ocean. Journal of Geophysical Research, 1995, 100, 6645.	3.3	26
70	Diel bio-optical variability observed from moored sensors in the Arabian Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 1999, 46, 1813-1831.	1.4	26
71	Water column dynamics of dissolved inorganic carbon (DIC), nitrogen and O2 on Georges Bank during April, 1990. Continental Shelf Research, 1994, 14, 765-789.	1.8	19
72	Two threatened Caribbean coral species have contrasting responses to combined temperature and acidification stress. Limnology and Oceanography, 2018, 63, 2450-2464.	3.1	17

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73	Coastal Ocean Data Analysis Product in North America (CODAP-NA) â€“ an internally consistent data product for discrete inorganic carbon, oxygen, and nutrients on the North American ocean margins. Earth System Science Data, 2021, 13, 2777-2799.	9.9	14
74	Seasonal Variations of Carbonate Chemistry at Two Western Atlantic Coral Reefs. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016108.	2.6	12
75	Diel variations of bio-optical properties in the Sargasso Sea. , 1990, 1302, 214.		11
76	Environmental controls on daytime net community calcification on a Red Sea reef flat. Coral Reefs, 2016, 35, 697-711.	2.2	11
77	Preconditioning to high CO2 exacerbates the response of the Caribbean branching coral Porites porites to high temperature stress. Marine Ecology - Progress Series, 2016, 546, 75-84.	1.9	9
78	Impacts of Stony Coral Tissue Loss Disease (SCTLD) on Coral Community Structure at an Inshore Patch Reef of the Upper Florida Keys Using Photomosaics. Frontiers in Marine Science, 2021, 8, .	2.5	8
79	Comparative diel oxygen cycles preceding and during a Karenia bloom in Sarasota Bay, Florida, USA. Harmful Algae, 2014, 38, 95-100.	4.8	7
80	The Integrated Coral Observing Network: Sensor Solutions for Sensitive Sites. , 2007, , .		6
81	Ocean Acidification's Effects on Marine Ecosystems and Biogeochemistry: Ocean Carbon and Biogeochemistry Scoping Workshop on Ocean Acidification Research; La Jolla, California, 9â€“11 October 2007. Eos, 2008, 89, 143.	0.1	6
82	Cytoplasmic and shell fine structure of Tetrapetalon elegans (Polycystinea) and comparisons to Hexacontium spp. with implications for phylogeny and taxonomy of the Spumellarida. Marine Micropaleontology, 1998, 33, 299-307.	1.2	5
83	In-situ measurement of metabolic status in three coral species from the Florida Reef Tract. Regional Studies in Marine Science, 2015, 2, 145-153.	0.7	5
84	Time series observations of bio-optical properties in the upper layer of the Sargasso Sea. , 1990, 1302, 202.		4
85	Source location and food availability determine the growth response of Orbicella faveolata to climate change stressors. Regional Studies in Marine Science, 2017, 10, 107-115.	0.7	4
86	O₂-MAVS: An instrument for measuring oxygen flux. , 2009, , .		4
87	Algal chemical ecology in a changing ocean. Planta Medica, 2014, 80, .	1.3	2
88	Net ecosystem dissolution and respiration dominate metabolic rates at two western Atlantic reef sites. Limnology and Oceanography, 2022, 67, 527-539.	3.1	2
89	Coral reef pH altered in situ. Nature Ecology and Evolution, 2019, 3, 1380-1381.	7.8	1
90	Description of conversion of an EG&G VMCM into a MVMS (multi-variable moored sensor). , 0, , .		0

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91	Respiratory Rate and Effects of Heat Stress in Physarum polycephalum during Transformation from Sclerotium to Plasmodium. Archiv FÃ¼r Protistenkunde, 1996, 147, 93-99.	0.8	0
92	Response from Chris Langdon, Biosphere 2 Center. BioScience, 2002, 52, 463.	4.9	0