Steeve Comeau

List of Publications by Year
in descending order

52 papers	5,842 citations	126907 33 h-index	189892 50 g-index
55 all docs	55 docs citations	55 times ranked	5626 citing authors

#	Article	IF	Citations
1	Understanding coralline algal responses to ocean acidification: Metaâ€analysis and synthesis. Global Change Biology, 2022, 28, 362-374.	9.5	22
2	pH variability at volcanic CO₂ seeps regulates coral calcifying fluid chemistry. Global Change Biology, 2022, 28, 2751-2763.	9.5	8
3	Impacts of ocean warming and acidification on calcifying coral reef taxa: mechanisms responsible and adaptive capacity. Emerging Topics in Life Sciences, 2022, 6, 1-9.	2.6	3
4	Coral calcification mechanisms in a warming ocean and the interactive effects of temperature and light. Communications Earth & Environment, 2022, 3, .	6.8	5
5	Marine heatwaves drive recurrent mass mortalities in the Mediterranean Sea. Global Change Biology, 2022, 28, 5708-5725.	9.5	144
6	Rapid multi-generational acclimation of coralline algal reproductive structures to ocean acidification. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210130.	2.6	6
7	Global declines in coral reef calcium carbonate production under ocean acidification and warming. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	132
8	Two temperate corals are tolerant to low <scp>pH</scp> regardless of previous exposure to natural <scp>CO₂</scp> vents. Limnology and Oceanography, 2021, 66, 4046-4061.	3.1	5
9	Ocean acidification as a multiple driver: how interactions between changing seawater carbonate parameters affect marine life. Marine and Freshwater Research, 2020, 71, 263.	1.3	62
10	Ocean acidification causes variable traitâ€shifts in a coral species. Global Change Biology, 2020, 26, 6813-6830.	9.5	27
11	A coralline alga gains tolerance to ocean acidification over multiple generations of exposure. Nature Climate Change, 2020, 10, 143-146.	18.8	57
12	Flow-driven micro-scale pH variability affects the physiology of corals and coralline algae under ocean acidification. Scientific Reports, 2019, 9, 12829.	3.3	37
13	Investigating marine bioâ€calcification mechanisms in a changing ocean with in vivo and highâ€resolution ex vivo Raman spectroscopy. Global Change Biology, 2019, 25, 1877-1888.	9.5	17
14	Resistance to ocean acidification in coral reef taxa is not gained by acclimatization. Nature Climate Change, 2019, 9, 477-483.	18.8	53
15	Impacts of Ocean Warming on Coralline Algal Calcification: Meta-Analysis, Knowledge Gaps, and Key Recommendations for Future Research. Frontiers in Marine Science, 2019, 6, .	2.5	71
16	Coral resistance to ocean acidification linked to increased calcium at the site of calcification. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180564.	2.6	77
17	Similar controls on calcification under ocean acidification across unrelated coral reef taxa. Global Change Biology, 2018, 24, 4857-4868.	9.5	61
18	Resistance of corals and coralline algae to ocean acidification: physiological control of calcification under natural pH variability. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20181168.	2.6	75

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19	Impacts of coral bleaching on pH and oxygen gradients across the coral concentration boundary layer: a microsensor study. Coral Reefs, 2018, 37, 1169-1180.	2.2	5
20	Effects of pCO2 on photosynthesis and respiration of tropical scleractinian corals and calcified algae. ICES Journal of Marine Science, 2017, 74, 1092-1102.	2.5	34
21	Coral calcifying fluid pH is modulated by seawater carbonate chemistry not solely seawater pH. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20161669.	2.6	58
22	Complex and interactive effects of ocean acidification and temperature on epilithic and endolithic coral-reef turf algal assemblages. Coral Reefs, 2017, 36, 1059-1070.	2.2	25
23	Coralline algae elevate <scp>pH</scp> at the site of calcification under ocean acidification. Global Change Biology, 2017, 23, 4245-4256.	9.5	99
24	Shelled pteropods in peril: Assessing vulnerability in a high CO2 ocean. Earth-Science Reviews, 2017, 169, 132-145.	9.1	78
25	Global warming and recurrent mass bleaching of corals. Nature, 2017, 543, 373-377.	27.8	2,363
26	Contrasting Effects of Ocean Acidification on Coral Reef â€œAnimal Forestsâ€•Versus Seaweed â€œKelp Forestsâ€• , 2017, , 1083-1107.		2
27	Decoupling between the response of coral calcifying fluid pH and calcification to ocean acidification. Scientific Reports, 2017, 7, 7573.	3.3	51
28	The Role of Natural Variability in Shaping the Response of Coral Reef Organisms to Climate Change. Current Climate Change Reports, 2017, 3, 271-281.	8.6	101
29	Marine heatwave causes unprecedented regional mass bleaching of thermally resistant corals in northwestern Australia. Scientific Reports, 2017, 7, 14999.	3.3	159
30	Organisms Composing an Experimental Coral Reef Community from Mo'orea, French Polynesia, Exhibit Taxon-Specific Net Production: Net Calcification Ratios. Frontiers in Marine Science, 2017, 4, .	2.5	6
31	Daily variation in net primary production and net calcification in coral reef communities exposed to elevated <i>p</i>CO₂. Biogeosciences, 2017, 14, 3549-3560.	3.3	8
32	Framework of barrier reefs threatened by ocean acidification. Global Change Biology, 2016, 22, 1225-1234.	9.5	25
33	Integrating the Effects of Ocean Acidification across Functional Scales on Tropical Coral Reefs. BioScience, 2016, 66, 350-362.	4.9	51
34	Parameterization of the response of calcification to temperature and pCO2 in the coral Acropora pulchra and the alga Lithophyllum kotschyanum. Coral Reefs, 2016, 35, 929-939.	2.2	20
35	Contrasting Effects of Ocean Acidification on Coral Reef â€œAnimal Forestsâ€•Versus Seaweed â€œKelp Forestsâ€• , 2016, , 1-25.		7
36	Ocean acidification accelerates dissolution of experimental coral reef communities. Biogeosciences, 2015, 12, 365-372.	3.3	43

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37	Pacific-wide contrast highlights resistance of reef calcifiers to ocean acidification. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141339.	2.6	48
38	Effects of irradiance on the response of the coral Acropora pulchra and the calcifying alga Hydrolithon reinboldii to temperature elevation and ocean acidification. Journal of Experimental Marine Biology and Ecology, 2014, 453, 28-35.	1.5	55
39	Sink and swim: a status review of thecosome pteropod culture techniques. Journal of Plankton Research, 2014, 36, 299-315.	1.8	48
40	Fast coral reef calcifiers are more sensitive to ocean acidification in shortâ€term laboratory incubations. Limnology and Oceanography, 2014, 59, 1081-1091.	3.1	122
41	Water flow modulates the response of coral reef communities to ocean acidification. Scientific Reports, 2014, 4, 6681.	3.3	72
42	Diel pCO2 oscillations modulate the response of the coral Acropora hyacinthus to ocean acidification. Marine Ecology - Progress Series, 2014, 501, 99-111.	1.9	61
43	Coral reef calcifiers buffer their response to ocean acidification using both bicarbonate and carbonate. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122374.	2.6	95
44	The responses of eight coral reef calcifiers to increasing partial pressure of CO₂ do not exhibit a tipping point. Limnology and Oceanography, 2013, 58, 388-398.	3.1	168
45	Impacts of ocean acidification on marine shelled molluscs. Marine Biology, 2013, 160, 2207-2245.	1.5	557
46	Effects of feeding and light intensity on the response of the coral Porites rus to ocean acidification. Marine Biology, 2013, 160, 1127-1134.	1.5	39
47	Response to coral reef calcification: carbonate, bicarbonate and proton flux under conditions of increasing ocean acidification. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20131153.	2.6	12
48	Impact of aragonite saturation state changes on migratory pteropods. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 732-738.	2.6	65
49	Effects of ocean acidification on overwintering juvenile Arctic pteropods Limacina helicina. Marine Ecology - Progress Series, 2012, 456, 279-284.	1.9	50
50	Larvae of the pteropod Cavolinia inflexa exposed to aragonite undersaturation are viable but shell-less. Marine Biology, 2010, 157, 2341-2345.	1.5	99
51	Response of the Arctic Pteropod Limacina helicina to Projected Future Environmental Conditions. PLoS ONE, 2010, 5, e11362.	2.5	157
52	Impact of ocean acidification on a key Arctic pelagic mollusc (<i>Limacina) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td	3.3	187