

# Steeve Comeau

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Global warming and recurrent mass bleaching of corals. <i>Nature</i> , 2017, 543, 373-377.	27.8	2,363
2	Impacts of ocean acidification on marine shelled molluscs. <i>Marine Biology</i> , 2013, 160, 2207-2245.	1.5	557
3	Impact of ocean acidification on a key Arctic pelagic mollusc (&lt;i>Limacina) Tj ETQq1 1 0.784314 rgBT/Overlock_10 Tf 50	3.3	187
4	The responses of eight coral reef calcifiers to increasing partial pressure of CO <sub>2</sub> do not exhibit a tipping point. <i>Limnology and Oceanography</i> , 2013, 58, 388-398.	3.1	168
5	Marine heatwave causes unprecedented regional mass bleaching of thermally resistant corals in northwestern Australia. <i>Scientific Reports</i> , 2017, 7, 14999.	3.3	159
6	Response of the Arctic Pteropod <i>Limacina helicina</i> to Projected Future Environmental Conditions. <i>PLoS ONE</i> , 2010, 5, e11362.	2.5	157
7	Marine heatwaves drive recurrent mass mortalities in the Mediterranean Sea. <i>Global Change Biology</i> , 2022, 28, 5708-5725.	9.5	144
8	Global declines in coral reef calcium carbonate production under ocean acidification and warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	132
9	Fast coral reef calcifiers are more sensitive to ocean acidification in short-term laboratory incubations. <i>Limnology and Oceanography</i> , 2014, 59, 1081-1091.	3.1	122
10	The Role of Natural Variability in Shaping the Response of Coral Reef Organisms to Climate Change. <i>Current Climate Change Reports</i> , 2017, 3, 271-281.	8.6	101
11	Larvae of the pteropod <i>Cavolinia inflexa</i> exposed to aragonite undersaturation are viable but shell-less. <i>Marine Biology</i> , 2010, 157, 2341-2345.	1.5	99
12	Coralline algae elevate <math>pH</math> at the site of calcification under ocean acidification. <i>Global Change Biology</i> , 2017, 23, 4245-4256.	9.5	99
13	Coral reef calcifiers buffer their response to ocean acidification using both bicarbonate and carbonate. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20122374.	2.6	95
14	Shelled pteropods in peril: Assessing vulnerability in a high CO <sub>2</sub> ocean. <i>Earth-Science Reviews</i> , 2017, 169, 132-145.	9.1	78
15	Coral resistance to ocean acidification linked to increased calcium at the site of calcification. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180564.	2.6	77
16	Resistance of corals and coralline algae to ocean acidification: physiological control of calcification under natural pH variability. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181168.	2.6	75
17	Water flow modulates the response of coral reef communities to ocean acidification. <i>Scientific Reports</i> , 2014, 4, 6681.	3.3	72
18	Impacts of Ocean Warming on Coralline Algal Calcification: Meta-Analysis, Knowledge Gaps, and Key Recommendations for Future Research. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	71

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19	Impact of aragonite saturation state changes on migratory pteropods. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 732-738.	2.6	65
20	Ocean acidification as a multiple driver: how interactions between changing seawater carbonate parameters affect marine life. <i>Marine and Freshwater Research</i> , 2020, 71, 263.	1.3	62
21	Similar controls on calcification under ocean acidification across unrelated coral reef taxa. <i>Global Change Biology</i> , 2018, 24, 4857-4868.	9.5	61
22	Diel pCO <sub>2</sub> oscillations modulate the response of the coral <i>Acropora hyacinthus</i> to ocean acidification. <i>Marine Ecology - Progress Series</i> , 2014, 501, 99-111.	1.9	61
23	Coral calcifying fluid pH is modulated by seawater carbonate chemistry not solely seawater pH. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20161669.	2.6	58
24	A coralline alga gains tolerance to ocean acidification over multiple generations of exposure. <i>Nature Climate Change</i> , 2020, 10, 143-146.	18.8	57
25	Effects of irradiance on the response of the coral <i>Acropora pulchra</i> and the calcifying alga <i>Hydolithon reinboldii</i> to temperature elevation and ocean acidification. <i>Journal of Experimental Marine Biology and Ecology</i> , 2014, 453, 28-35.	1.5	55
26	Resistance to ocean acidification in coral reef taxa is not gained by acclimatization. <i>Nature Climate Change</i> , 2019, 9, 477-483.	18.8	53
27	Integrating the Effects of Ocean Acidification across Functional Scales on Tropical Coral Reefs. <i>BioScience</i> , 2016, 66, 350-362.	4.9	51
28	Decoupling between the response of coral calcifying fluid pH and calcification to ocean acidification. <i>Scientific Reports</i> , 2017, 7, 7573.	3.3	51
29	Effects of ocean acidification on overwintering juvenile Arctic pteropods <i>Limacina helicina</i> . <i>Marine Ecology - Progress Series</i> , 2012, 456, 279-284.	1.9	50
30	Pacific-wide contrast highlights resistance of reef calcifiers to ocean acidification. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20141339.	2.6	48
31	Sink and swim: a status review of thecosome pteropod culture techniques. <i>Journal of Plankton Research</i> , 2014, 36, 299-315.	1.8	48
32	Ocean acidification accelerates dissolution of experimental coral reef communities. <i>Biogeosciences</i> , 2015, 12, 365-372.	3.3	43
33	Effects of feeding and light intensity on the response of the coral <i>Porites rus</i> to ocean acidification. <i>Marine Biology</i> , 2013, 160, 1127-1134.	1.5	39
34	Flow-driven micro-scale pH variability affects the physiology of corals and coralline algae under ocean acidification. <i>Scientific Reports</i> , 2019, 9, 12829.	3.3	37
35	Effects of pCO <sub>2</sub> on photosynthesis and respiration of tropical scleractinian corals and calcified algae. <i>ICES Journal of Marine Science</i> , 2017, 74, 1092-1102.	2.5	34
36	Ocean acidification causes variable trait shifts in a coral species. <i>Global Change Biology</i> , 2020, 26, 6813-6830.	9.5	27

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37	Framework of barrier reefs threatened by ocean acidification. <i>Global Change Biology</i> , 2016, 22, 1225-1234.	9.5	25
38	Complex and interactive effects of ocean acidification and temperature on epilithic and endolithic coral-reef turf algal assemblages. <i>Coral Reefs</i> , 2017, 36, 1059-1070.	2.2	25
39	Understanding coralline algal responses to ocean acidification: Meta-analysis and synthesis. <i>Global Change Biology</i> , 2022, 28, 362-374.	9.5	22
40	Parameterization of the response of calcification to temperature and pCO <sub>2</sub> in the coral <i>Acropora pulchra</i> and the alga <i>Lithophyllum kotschyannum</i> . <i>Coral Reefs</i> , 2016, 35, 929-939.	2.2	20
41	Investigating marine bio-calcification mechanisms in a changing ocean with in vivo and high-resolution ex vivo Raman spectroscopy. <i>Global Change Biology</i> , 2019, 25, 1877-1888.	9.5	17
42	Response to coral reef calcification: carbonate, bicarbonate and proton flux under conditions of increasing ocean acidification. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20131153.	2.6	12
43	Daily variation in net primary production and net calcification in coral reef communities exposed to elevated pCO <sub>2</sub> . <i>Biogeosciences</i> , 2017, 14, 3549-3560.	3.3	8
44	pH variability at volcanic CO <sub>2</sub> seeps regulates coral calcifying fluid chemistry. <i>Global Change Biology</i> , 2022, 28, 2751-2763.	9.5	8
45	Contrasting Effects of Ocean Acidification on Coral Reef "Animal Forests" Versus Seaweed "Kelp Forests", 2016, , 1-25.		7
46	Organisms Composing an Experimental Coral Reef Community from Mo'orea, French Polynesia, Exhibit Taxon-Specific Net Production: Net Calcification Ratios. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	6
47	Rapid multi-generational acclimation of coralline algal reproductive structures to ocean acidification. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210130.	2.6	6
48	Impacts of coral bleaching on pH and oxygen gradients across the coral concentration boundary layer: a microsensor study. <i>Coral Reefs</i> , 2018, 37, 1169-1180.	2.2	5
49	Two temperate corals are tolerant to low pH regardless of previous exposure to natural CO <sub>2</sub> vents. <i>Limnology and Oceanography</i> , 2021, 66, 4046-4061.	3.1	5
50	Coral calcification mechanisms in a warming ocean and the interactive effects of temperature and light. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	6.8	5
51	Impacts of ocean warming and acidification on calcifying coral reef taxa: mechanisms responsible and adaptive capacity. <i>Emerging Topics in Life Sciences</i> , 2022, 6, 1-9.	2.6	3
52	Contrasting Effects of Ocean Acidification on Coral Reef "Animal Forests" Versus Seaweed "Kelp Forests", 2017, , 1083-1107.		2