

# Robert C Carpenter

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

1,384  
citations

394286

19  
h-index

345118

36  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1508  
citing authors

#	ARTICLE	IF	CITATIONS
1	Algal blooms on coral reefs: What are the causes?. <i>Limnology and Oceanography</i> , 1999, 44, 1583-1586.	1.6	153
2	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, .	3.3	132
3	Recruitment Drives Spatial Variation in Recovery Rates of Resilient Coral Reefs. <i>Scientific Reports</i> , 2018, 8, 7338.	1.6	106
4	COMPETITION AMONG MARINE MACROALGAE: A PHYSIOLOGICAL PERSPECTIVE. <i>Journal of Phycology</i> , 1990, 26, 6-12.	1.0	103
5	Measurements of primary productivity and nitrogenase activity of coral reef algae in a chamber incorporating oscillatory flow. <i>Limnology and Oceanography</i> , 1991, 36, 40-49.	1.6	97
6	Effects of algal turf canopy height and microscale substratum topography on profiles of flow speed in a coral forereef environment. <i>Limnology and Oceanography</i> , 1993, 38, 687-694.	1.6	87
7	THE EFFECTS OF MORPHOLOGY AND WATER FLOW ON PHOTOSYNTHESIS OF MARINE MACROALGAE. <i>Ecology</i> , 2003, 84, 2999-3012.	1.5	87
8	Persistence and Change in Community Composition of Reef Corals through Present, Past, and Future Climates. <i>PLoS ONE</i> , 2014, 9, e107525.	1.1	75
9	Mass transfer limitation of photosynthesis of coral reef algal turfs. <i>Marine Biology</i> , 2007, 151, 435-450.	0.7	59
10	Acclimatization of the Crustose Coralline Alga <i>Porolithon onkodes</i> to Variable pCO <sub>2</sub> . <i>PLoS ONE</i> , 2014, 9, e87678.	1.1	59
11	Landscape-scale patterns of nutrient enrichment in a coral reef ecosystem: implications for coral to algae phase shifts. <i>Ecological Applications</i> , 2021, 31, e2227.	1.8	49
12	PHOTOSYNTHESIS/PHOTON FLUX DENSITY RELATIONSHIPS AMONG COMPONENTS OF CORAL REEF ALGAL TURFS1. <i>Journal of Phycology</i> , 1990, 26, 36-40.	1.0	39
13	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.	0.7	39
14	Intraspecific variability in the response to ocean warming and acidification in the scleractinian coral <i>Acropora pulchra</i> . <i>Marine Biology</i> , 2016, 163, 1.	0.7	29
15	Seasonal acclimatization of <i>Asparagopsis taxiformis</i> (Rhodophyta) from different biogeographic regions. <i>Limnology and Oceanography</i> , 2007, 52, 833-842.	1.6	26
16	The effects of water flow and sedimentation on interactions between massive <i>Porites</i> and algal turf. <i>Coral Reefs</i> , 2014, 33, 651-663.	0.9	26
17	Framework of barrier reefs threatened by ocean acidification. <i>Global Change Biology</i> , 2016, 22, 1225-1234.	4.2	25
18	Ocean acidification effects on in situ coral reef metabolism. <i>Scientific Reports</i> , 2019, 9, 12067.	1.6	24

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19	Extreme rainfall events pulse substantial nutrients and sediments from terrestrial to nearshore coastal communities: a case study from French Polynesia. <i>Scientific Reports</i> , 2020, 10, 2955.	1.6	22
20	Nitrogen enrichment offsets direct negative effects of ocean acidification on a reef-building crustose coralline alga. <i>Biology Letters</i> , 2018, 14, 20180371.	1.0	17
21	Habitat-induced morphological variation influences photosynthesis and drag on the marine macroalga <i>Pachydictyon coriaceum</i> . <i>Marine Biology</i> , 2007, 151, 243-255.	0.7	15
22	Water flow influences the mechanisms and outcomes of interactions between massive <i>Porites</i> and coral reef algae. <i>Marine Biology</i> , 2015, 162, 459-468.	0.7	15
23	THERMAL ECOPHYSIOLOGY OF <i>LAURENCIA PACIFICA</i> AND <i>LAURENCIA NIDIFICA</i> (CERAMIALES, Tj ETQq1 1 0.784314 rjB 2007, 43, 686-692.	1.0	13
24	Multi-Decadal Change in Reef-Scale Production and Calcification Associated With Recent Disturbances on a Lizard Island Reef Flat. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	12
25	Contrasting responses of photosynthesis and photochemical efficiency to ocean acidification under different light environments in a calcifying alga. <i>Scientific Reports</i> , 2019, 9, 3986.	1.6	12
26	Resilience: insights from the U.S. LongTerm Ecological Research Network. <i>Ecosphere</i> , 2021, 12, e03434.	1.0	11
27	Macroalgal morphology mediates particle capture by the corallimorpharian <i>Corynactis californica</i> . <i>Marine Biology</i> , 2008, 155, 273-280.	0.7	10
28	Epifaunal invertebrate assemblages associated with branching Pocilloporids in Moorea, French Polynesia. <i>PeerJ</i> , 2020, 8, e9364.	0.9	9
29	Obligate ectosymbionts increase the physiological resilience of a scleractinian coral to high temperature and elevated pCO <sub>2</sub> . <i>Coral Reefs</i> , 2018, 37, 997-1001.	0.9	7
30	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, .	1.2	6
31	Shallow coral reef free ocean carbon enrichment: Novel in situ flumes to manipulate pCO <sub>2</sub> on shallow tropical coral reef communities. <i>Limnology and Oceanography: Methods</i> , 2020, 18, 116-128.	1.0	6
32	Changes in coral reef community structure in response to year-long incubations under contrasting pCO <sub>2</sub> regimes. <i>Marine Biology</i> , 2019, 166, 1.	0.7	5
33	Year-long effects of high pCO <sub>2</sub> on the community structure of a tropical fore reef assembled in outdoor flumes. <i>ICES Journal of Marine Science</i> , 2020, 77, 1055-1065.	1.2	4
34	Stony coral populations are more sensitive to changes in vital rates in disturbed environments. <i>Ecological Applications</i> , 2021, 31, e02234.	1.8	3
35	Susan Lynn Williams: the Life of an Exceptional Scholar, Leader, and Friend (1951â€“2018). <i>Estuaries and Coasts</i> , 2021, 44, 304-311.	1.0	1
36	Modes of Metabolic Performance of Pacific Reefs. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092930.	1.5	1