

# Jennifer E Smith

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

3,439  
citations

201575

27  
h-index

182361

51  
g-index

54  
all docs

54  
docs citations

54  
times ranked

3804  
citing authors

#	ARTICLE	IF	CITATIONS
1	Baselines and Degradation of Coral Reefs in the Northern Line Islands. PLoS ONE, 2008, 3, e1548.	1.1	711
2	Towards Automated Annotation of Benthic Survey Images: Variability of Human Experts and Operational Modes of Automation. PLoS ONE, 2015, 10, e0130312.	1.1	250
3	Local genomic adaptation of coral reef-associated microbiomes to gradients of natural variability and anthropogenic stressors. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10227-10232.	3.3	220
4	Re-evaluating the health of coral reef communities: baselines and evidence for human impacts across the central Pacific. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20151985.	1.2	218
5	Global microbialization of coral reefs. Nature Microbiology, 2016, 1, 16042.	5.9	214
6	The effects of top-down versus bottom-up control on benthic coral reef community structure. Oecologia, 2010, 163, 497-507.	0.9	191
7	Social-environmental drivers inform strategic management of coral reefs in the Anthropocene. Nature Ecology and Evolution, 2019, 3, 1341-1350.	3.4	175
8	Benthic communities at two remote Pacific coral reefs: effects of reef habitat, depth, and wave energy gradients on spatial patterns. PeerJ, 2013, 1, e81.	0.9	113
9	Gradients in Primary Production Predict Trophic Strategies of Mixotrophic Corals across Spatial Scales. Current Biology, 2018, 28, 3355-3363.e4.	1.8	87
10	Contrasting effects of ocean acidification on tropical fleshy and calcareous algae. PeerJ, 2014, 2, e411.	0.9	83
11	Large-area imaging reveals biologically driven non-random spatial patterns of corals at a remote reef. Coral Reefs, 2017, 36, 1291-1305.	0.9	68
12	Assessment of net community production and calcification of a coral reef using a boundary layer approach. Journal of Geophysical Research: Oceans, 2016, 121, 5655-5671.	1.0	63
13	Diel temperature and pH variability scale with depth across diverse coral reef habitats. Limnology and Oceanography Letters, 2020, 5, 193-203.	1.6	59
14	Biophysical drivers of coral trophic depth zonation. Marine Biology, 2018, 165, 1.	0.7	56
15	Metabolomics of reef benthic interactions reveals a bioactive lipid involved in coral defence. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160469.	1.2	55
16	A Red Algal Bourbonane Sesquiterpene Synthase Defined by Microgram-Scale NMR-Coupled Crystalline Sponge X-ray Diffraction Analysis. Journal of the American Chemical Society, 2017, 139, 16838-16844.	6.6	55
17	Trophic plasticity in a common reef-building coral: Insights from $^{13}\text{C}$ analysis of essential amino acids. Functional Ecology, 2019, 33, 2203-2214.	1.7	55
18	Underwater microscopy for in situ studies of benthic ecosystems. Nature Communications, 2016, 7, 12093.	5.8	51

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19	Acute effects of removing large fish from a near-pristine coral reef. <i>Marine Biology</i> , 2010, 157, 2739-2750.	0.7	50
20	Effects of reduced dissolved oxygen concentrations on physiology and fluorescence of hermatypic corals and benthic algae. <i>PeerJ</i> , 2014, 2, e235.	0.9	48
21	Visualization of oxygen distribution patterns caused by coral and algae. <i>PeerJ</i> , 2013, 1, e106.	0.9	43
22	Coupled changes in oxygen concentration and pH caused by metabolism of benthic coral reef organisms. <i>Marine Biology</i> , 2013, 160, 2437-2447.	0.7	41
23	Investigating functional redundancy versus complementarity in Hawaiian herbivorous coral reef fishes. <i>Oecologia</i> , 2016, 182, 1151-1163.	0.9	39
24	Preparing to manage coral reefs for ocean acidification: lessons from coral bleaching. <i>Frontiers in Ecology and the Environment</i> , 2013, 11, 20-27.	1.9	38
25	Limited coral mortality following acute thermal stress and widespread bleaching on Palmyra Atoll, central Pacific. <i>Coral Reefs</i> , 2019, 38, 701-712.	0.9	35
26	Can we measure beauty? Computational evaluation of coral reef aesthetics. <i>PeerJ</i> , 2015, 3, e1390.	0.9	31
27	A budget of algal production and consumption by herbivorous fish in an herbivore fisheries management area, Maui, Hawaii. <i>Ecosphere</i> , 2017, 8, e01899.	1.0	29
28	Diel population and functional synchrony of microbial communities on coral reefs. <i>Nature Communications</i> , 2019, 10, 1691.	5.8	28
29	Genetic and Biochemical Reconstitution of Bromoform Biosynthesis in <i>Asparagopsis</i> Lends Insights into Seaweed Reactive Oxygen Species Enzymology. <i>ACS Chemical Biology</i> , 2020, 15, 1662-1670.	1.6	27
30	Environmental impacts and implications of tropical carrageenophyte seaweed farming. <i>Conservation Biology</i> , 2020, 34, 326-337.	2.4	27
31	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.	0.9	25
32	The Lagoon at Caroline/Millennium Atoll, Republic of Kiribati: Natural History of a Nearly Pristine Ecosystem. <i>PLoS ONE</i> , 2010, 5, e10950.	1.1	22
33	Increasing Coral Reef Resilience Through Successive Marine Heatwaves. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094128.	1.5	22
34	Classification of remote Pacific coral reefs by physical oceanographic environment. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	21
35	Before platelets: the production of platelet-activating factor during growth and stress in a basal marine organism. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181307.	1.2	20
36	Synthetic algal-bacteria consortia for space-efficient microalgal growth in a simple hydrogel system. <i>Journal of Applied Phycology</i> , 2021, 33, 2805-2815.	1.5	20

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37	Sequencing at sea: challenges and experiences in Ion Torrent PGM sequencing during the 2013 Southern Line Islands Research Expedition. PeerJ, 2014, 2, e520.	0.9	19
38	Palstimolide A: A Complex Polyhydroxy Macrolide with Antiparasitic Activity. Molecules, 2020, 25, 1604.	1.7	18
39	Baseline Assessment of Net Calcium Carbonate Accretion Rates on U.S. Pacific Reefs. PLoS ONE, 2015, 10, e0142196.	1.1	17
40	Future sea-level rise drives rocky intertidal habitat loss and benthic community change. PeerJ, 2020, 8, e9186.	0.9	14
41	Ecophysiology of coral reef primary producers across an upwelling gradient in the tropical central Pacific. PLoS ONE, 2020, 15, e0228448.	1.1	13
42	Differential resistance and acclimation of two coral species to chronic nutrient enrichment reflect life history traits. Functional Ecology, 2021, 35, 1081-1093.	1.7	13
43	An unusual cyanobacterial bloom in Hawai'i. Coral Reefs, 2008, 27, 851-851.	0.9	12
44	Changes in benthic community composition associated with the outbreak of the corallimorph, <i>Rhodactis howesii</i> , at Palmyra Atoll. Coral Reefs, 2019, 38, 1267-1279.	0.9	12
45	Comparative metabolic ecology of tropical herbivorous echinoids on a coral reef. PLoS ONE, 2018, 13, e0190470.	1.1	7
46	Calcification accretion units (<sc>CAUs</sc>): A standardized approach for quantifying recruitment and calcium carbonate accretion in marine habitats. Methods in Ecology and Evolution, 2022, 13, 1436-1446.	2.2	7
47	Ecological assessment of the marine ecosystems of Barbuda, West Indies: Using rapid scientific assessment to inform ocean zoning and fisheries management. PLoS ONE, 2018, 13, e0189355.	1.1	6
48	Decadal stability of coral reef benthic communities on Palmyra Atoll, central Pacific, through two bleaching events. Coral Reefs, 2022, 41, 1017-1029.	0.9	4
49	<i>Dictyota cyanoloma</i> (Dictyotales, Phaeophyceae), a Newly Introduced Brown Algal Species in California. Journal of Phycology, 2021, 57, 370-378.	1.0	3
50	Benthic assemblages are more predictable than fish assemblages at an island scale. Coral Reefs, 2022, 41, 1031-1043.	0.9	3
51	<i>Brilliantia kiribatiensis</i>, a new genus and species of Cladophorales (Chlorophyta) from the remote coral reefs of the Southern Line Islands, Pacific Ocean. Journal of Phycology, 2022, 58, 183-197.	1.0	1