

# John C. Bythell

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

4,659  
citations

117625

34  
h-index

138484

58  
g-index

63  
all docs

63  
docs citations

63  
times ranked

3537  
citing authors

#	ARTICLE	IF	CITATIONS
1	Perspectives on mucus secretion in reef corals. <i>Marine Ecology - Progress Series</i> , 2005, 296, 291-309.	1.9	378
2	Characterization of the bacterial consortium associated with black band disease in coral using molecular microbiological techniques. <i>Environmental Microbiology</i> , 2002, 4, 401-413.	3.8	259
3	Are infectious diseases really killing corals? Alternative interpretations of the experimental and ecological data. <i>Journal of Experimental Marine Biology and Ecology</i> , 2007, 346, 36-44.	1.5	253
4	Response of two species of Indo-Pacific corals, <i>Porites cylindrica</i> and <i>Stylophora pistillata</i> , to short-term thermal stress: The host does matter in determining the tolerance of corals to bleaching. <i>Journal of Experimental Marine Biology and Ecology</i> , 2009, 373, 102-110.	1.5	216
5	The bacterial ecology of a plague-like disease affecting the Caribbean coral <i>Montastrea annularis</i> . <i>Environmental Microbiology</i> , 2003, 5, 370-382.	3.8	211
6	Climate change impedes scleractinian corals as primary reef ecosystem engineers. <i>Marine and Freshwater Research</i> , 2011, 62, 205.	1.3	210
7	Phase shifts and the role of herbivory in the resilience of coral reefs. <i>Coral Reefs</i> , 2007, 26, 641-653.	2.2	169
8	Bacterial assemblages differ between compartments within the coral holobiont. <i>Coral Reefs</i> , 2011, 30, 39-52.	2.2	168
9	Heat stress induces different forms of cell death in sea anemones and their endosymbiotic algae depending on temperature and duration. <i>Cell Death and Differentiation</i> , 2004, 11, 1213-1222.	11.2	163
10	Mechanisms of bleaching deduced from histological studies of reef corals sampled during a natural bleaching event. <i>Marine Biology</i> , 1995, 122, 655-663.	1.5	153
11	Programmed cell death and cell necrosis activity during hyperthermic stress-induced bleaching of the symbiotic sea anemone <i>Aiptasia</i> sp.. <i>Journal of Experimental Marine Biology and Ecology</i> , 2002, 272, 29-53.	1.5	141
12	Levels of immunity parameters underpin bleaching and disease susceptibility of reef corals. <i>FASEB Journal</i> , 2010, 24, 1935-1946.	0.5	131
13	Biology and ecology of coral mucus release. <i>Journal of Experimental Marine Biology and Ecology</i> , 2011, 408, 88-93.	1.5	130
14	Chronic and catastrophic natural mortality of three common Caribbean reef corals. <i>Coral Reefs</i> , 1993, 12, 143-152.	2.2	123
15	Three-dimensional morphometric measurements of reef corals using underwater photogrammetry techniques. <i>Coral Reefs</i> , 2001, 20, 193-199.	2.2	107
16	Local variability but landscape stability in coral reef communities following repeated hurricane impacts. <i>Marine Ecology - Progress Series</i> , 2000, 204, 93-100.	1.9	101
17	Ciliate and bacterial communities associated with White Syndrome and Brown Band Disease in reef-building corals. <i>Environmental Microbiology</i> , 2012, 14, 2184-2199.	3.8	98
18	Corals Use Similar Immune Cells and Wound-Healing Processes as Those of Higher Organisms. <i>PLoS ONE</i> , 2011, 6, e23992.	2.5	88

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19	Evolutionary conservation of the antimicrobial function of mucus: a first defence against infection. <i>Npj Biofilms and Microbiomes</i> , 2018, 4, 14.	6.4	85
20	Bacterial community structure associated with white band disease in the elkhorn coral <i>Acropora palmata</i> determined using culture-independent 16S rRNA techniques. <i>Diseases of Aquatic Organisms</i> , 2006, 69, 79-88.	1.0	84
21	A comparative study of phenoloxidase activity in diseased and bleached colonies of the coral <i>Acropora millepora</i> . <i>Developmental and Comparative Immunology</i> , 2011, 35, 1098-1101.	2.3	81
22	Algae as Reservoirs for Coral Pathogens. <i>PLoS ONE</i> , 2013, 8, e69717.	2.5	77
23	Experimental antibiotic treatment identifies potential pathogens of white band disease in the endangered Caribbean coral <i>Acropora cervicornis</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140094.	2.6	76
24	Expression of low molecular weight HSP 70 related polypeptides from the symbiotic sea anemone <i>Anemonia viridis</i> forskall in response to heat shock. <i>Journal of Experimental Marine Biology and Ecology</i> , 1994, 179, 179-193.	1.5	75
25	Histopathological methods for the investigation of microbial communities associated with disease lesions in reef corals. <i>Letters in Applied Microbiology</i> , 2002, 34, 359-364.	2.2	69
26	Environmental effects on bacterial diversity in the surface mucus layer of the reef coral <i>Montastraea faveolata</i> . <i>Marine Ecology - Progress Series</i> , 2006, 328, 133-142.	1.9	65
27	Habitat mapping in the Caribbean for management and conservation: Use and assessment of aerial photography. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 1995, 5, 277-298.	2.0	59
28	Evidence of Melanoma in Wild Marine Fish Populations. <i>PLoS ONE</i> , 2012, 7, e41989.	2.5	58
29	White Plague, White Band, and Other "White" Diseases. , 2004, , 351-365.		54
30	Nutrient uptake in the reef-building coral <i>Acropora palmata</i> at natural environmental concentrations. <i>Marine Ecology - Progress Series</i> , 1990, 68, 65-69.	1.9	53
31	Initial results of a long-term coral reef monitoring program: Impact of Hurricane Hugo at Buck Island Reef National Monument, St. Croix U.S. Virgin Islands. <i>Journal of Experimental Marine Biology and Ecology</i> , 1993, 172, 171-183.	1.5	51
32	The role of viruses in coral health and disease. <i>Journal of Invertebrate Pathology</i> , 2017, 147, 136-144.	3.2	47
33	Development of Bacterial Biofilms on Artificial Corals in Comparison to Surface-Associated Microbes of Hard Corals. <i>PLoS ONE</i> , 2011, 6, e21195.	2.5	42
34	Coral Mucus: The Properties of Its Constituent Mucins. <i>Biomacromolecules</i> , 2010, 11, 883-888.	5.4	41
35	White Syndrome in <i>Acropora muricata</i> : Nonspecific bacterial infection and ciliate histophagy. <i>Molecular Ecology</i> , 2015, 24, 1150-1159.	3.9	41
36	Effects of artificial settlement plate materials and methods of deployment on the sessile epibenthic community development in a tropical environment. <i>Coral Reefs</i> , 2007, 26, 279-289.	2.2	37

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37	Coral diseases in aquaria and in nature. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2012, 92, 791-801.	0.8	37
38	Algal genotype and photoacclimatory responses of the symbiotic alga <i>Symbiodinium</i> in natural populations of the sea anemone <i>Anemonia viridis</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1997, 264, 1277-1282.	2.6	32
39	A novel reef coral symbiosis. <i>Coral Reefs</i> , 2010, 29, 761-770.	2.2	32
40	Vertical distribution and diel patterns of zooplankton abundance and biomass at Conch Reef, Florida Keys (USA). <i>Journal of Plankton Research</i> , 2010, 32, 75-91.	1.8	32
41	Enzyme activity demonstrates multiple pathways of innate immunity in Indo-Pacific anthozoans. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 3879-3887.	2.6	32
42	Do reef corals age?. <i>Biological Reviews</i> , 2018, 93, 1192-1202.	10.4	32
43	An Experimental Framework for Selectively Breeding Corals for Assisted Evolution. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	30
44	Dynamics of bacterial community development in the reef coral <i>Acropora muricata</i> following experimental antibiotic treatment. <i>Coral Reefs</i> , 2011, 30, 1121-1133.	2.2	29
45	Oxidative-stress: comparison of species specific and tissue specific effects in the marine bivalves <i>Mytilus edulis</i> (L.) and <i>Dosinia lupinus</i> (L.). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2000, 127, 347-355.	1.6	24
46	Temporal and spatial patterns in waterborne bacterial communities of an island reef system. <i>Aquatic Microbial Ecology</i> , 2010, 61, 1-11.	1.8	24
47	The hologenome theory disregards the coral holobiont. <i>Nature Reviews Microbiology</i> , 2007, 5, 826-826.	28.6	20
48	Measuring mucus thickness in reef corals using a technique devised for vertebrate applications. <i>Marine Biology</i> , 2010, 157, 261-267.	1.5	19
49	Ecological assessment: an initial evaluation of the ecological input in environmental impact assessment reports in Bahrain. <i>Impact Assessment and Project Appraisal</i> , 2008, 26, 201-208.	1.8	17
50	Photogrammetry as a tool to improve ecosystem restoration. <i>Trends in Ecology and Evolution</i> , 2021, 36, 1093-1101.	8.7	17
51	"Keep up or give up": hurricanes promote coral survival by interrupting burial from sediment accumulation. <i>Coral Reefs</i> , 1998, 17, 262-262.	2.2	15
52	A novel environmentally-regulated 33 kDa protein from tropical and temperate cnidarian zooxanthellae. <i>Journal of Thermal Biology</i> , 1995, 20, 15-22.	2.5	14
53	Fine-Tuning Heat Stress Algorithms to Optimise Global Predictions of Mass Coral Bleaching. <i>Remote Sensing</i> , 2021, 13, 2677.	4.0	11
54	Baseline coral disease surveys within three marine parks in Sabah, Borneo. <i>PeerJ</i> , 2015, 3, e1391.	2.0	10

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55	Surface flow for colonial integration in reef-building corals. <i>Current Biology</i> , 2022, 32, 2596-2609.e7.	3.9	10
56	Equistatin and equinatoxin gene expression is influenced by environmental temperature in the sea anemone <i>Actinia equina</i> . <i>Toxicon</i> , 2018, 153, 12-16.	1.6	9
57	Microbial Communities Associated with Healthy and White Syndrome-Affected <i>Echinopora lamellosa</i> in Aquaria and Experimental Treatment with the Antibiotic Ampicillin. <i>PLoS ONE</i> , 2015, 10, e0121780.	2.5	8
58	Preserving the viscous coral surface mucus layer using low-acid glycol methacrylate (GMA) resin. <i>Coral Reefs</i> , 2019, 38, 521-526.	2.2	3