

William Leggat

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73 papers	3,599 citations	30 h-index	59 g-index
77 ext. papers	4,681 ext. citations	5.9 avg, IF	5.42 L-index

#	Paper	IF	Citations
73	Metabolic interactions between algal symbionts and invertebrate hosts. <i>Plant, Cell and Environment</i> , 2008 , 31, 679-94	8.4	367
72	The coral core microbiome identifies rare bacterial taxa as ubiquitous endosymbionts. <i>ISME Journal</i> , 2015 , 9, 2261-74	11.9	312
71	Climate change disables coral bleaching protection on the Great Barrier Reef. <i>Science</i> , 2016 , 352, 338-42	33.3	265
70	The effect of thermal history on the susceptibility of reef-building corals to thermal stress. <i>Journal of Experimental Biology</i> , 2008 , 211, 1050-6	3	197
69	Light-responsive cryptochromes from a simple multicellular animal, the coral <i>Acropora millepora</i> . <i>Science</i> , 2007 , 318, 467-70	33.3	193
68	The diversity and coevolution of Rubisco, plastids, pyrenoids, and chloroplast-based CO ₂ -concentrating mechanisms in algae. <i>Canadian Journal of Botany</i> , 1998 , 76, 1052-1071		141
67	An ancient and variable mannose-binding lectin from the coral <i>Acropora millepora</i> binds both pathogens and symbionts. <i>Developmental and Comparative Immunology</i> , 2008 , 32, 1582-92	3.2	134
66	Evidence for an inorganic carbon-concentrating mechanism in the symbiotic dinoflagellate <i>Symbiodinium</i> sp. <i>Plant Physiology</i> , 1999 , 121, 1247-56	6.6	103
65	Analysis of an EST library from the dinoflagellate (<i>Symbiodinium</i> sp.) symbiont of reef-building corals ¹ . <i>Journal of Phycology</i> , 2007 , 43, 1010-1021	3	99
64	Differential responses of the coral host and their algal symbiont to thermal stress. <i>PLoS ONE</i> , 2011 , 6, e26687	3.7	96
63	The Microbial Signature Provides Insight into the Mechanistic Basis of Coral Success across Reef Habitats. <i>MBio</i> , 2016 , 7,	7.8	93
62	Symbiotic Dinoflagellate Functional Diversity Mediates Coral Survival under Ecological Crisis. <i>Trends in Ecology and Evolution</i> , 2017 , 32, 735-745	10.9	86
61	<i>Symbiodinium</i> -invertebrate symbioses and the role of metabolomics. <i>Marine Drugs</i> , 2010 , 8, 2546-68	6	83
60	Early cellular changes are indicators of pre-bleaching thermal stress in the coral host. <i>Journal of Experimental Marine Biology and Ecology</i> , 2008 , 364, 63-71	2.1	82
59	Analysis of evolutionarily conserved innate immune components in coral links immunity and symbiosis. <i>Developmental and Comparative Immunology</i> , 2010 , 34, 1219-29	3.2	80
58	Molecular processes of transgenerational acclimation to a warming ocean. <i>Nature Climate Change</i> , 2015 , 5, 1074-1078	21.4	76
57	Differential coral bleaching-Contrasting the activity and response of enzymatic antioxidants in symbiotic partners under thermal stress. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2015 , 190, 15-25	2.6	66

56	Dinoflagellate symbioses: strategies and adaptations for the acquisition and fixation of inorganic carbon. <i>Functional Plant Biology</i> , 2002 , 29, 309-322	2.7	62
55	Fidelity and flexibility in coral symbioses. <i>Marine Ecology - Progress Series</i> , 2007 , 347, 307-309	2.6	62
54	Rapid Coral Decay Is Associated with Marine Heatwave Mortality Events on Reefs. <i>Current Biology</i> , 2019 , 29, 2723-2730.e4	6.3	61
53	Transcriptomic Analysis of Thermally Stressed Reveals Differential Expression of Stress and Metabolism Genes. <i>Frontiers in Plant Science</i> , 2017 , 8, 271	6.2	58
52	Antioxidant plasticity and thermal sensitivity in four types of Symbiodinium sp. <i>Journal of Phycology</i> , 2014 , 50, 1035-47	3	55
51	Temperature affects the early life history stages of corals more than near future ocean acidification. <i>Marine Ecology - Progress Series</i> , 2013 , 475, 85-92	2.6	54
50	Rethinking the Coral Microbiome: Simplicity Exists within a Diverse Microbial Biosphere. <i>MBio</i> , 2018 , 9,	7.8	54
49	The coral immune response facilitates protection against microbes during tissue regeneration. <i>Molecular Ecology</i> , 2015 , 24, 3390-404	5.7	46
48	The impact of bleaching on the metabolic contribution of dinoflagellate symbionts to their giant clam host. <i>Plant, Cell and Environment</i> , 2003 , 26, 1951-1961	8.4	42
47	Transcriptomic characterization of the enzymatic antioxidants FeSOD, MnSOD, APX and KatG in the dinoflagellate genus Symbiodinium. <i>BMC Evolutionary Biology</i> , 2015 , 15, 48	3	41
46	Increased prevalence of ubiquitous ascomycetes in an acropoid coral (<i>Acropora formosa</i>) exhibiting symptoms of Brown Band syndrome and skeletal eroding band disease. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 2755-7	4.8	35
45	Marine Heatwave Hotspots in Coral Reef Environments: Physical Drivers, Ecophysiological Outcomes, and Impact Upon Structural Complexity. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	32
44	Evolutionary analysis of orthologous cDNA sequences from cultured and symbiotic dinoflagellate symbionts of reef-building corals (Dinophyceae: Symbiodinium). <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2009 , 4, 67-74	2	31
43	The combined effects of temperature and CO ₂ lead to altered gene expression in <i>Acropora aspera</i> . <i>Coral Reefs</i> , 2013 , 32, 895-907	4.2	28
42	Photoreactivation is the main repair pathway for UV-induced DNA damage in coral planulae. <i>Journal of Experimental Biology</i> , 2009 , 212, 2760-6	3	28
41	Recent progress in Symbiodinium transcriptomics. <i>Journal of Experimental Marine Biology and Ecology</i> , 2011 , 408, 120-125	2.1	27
40	The effect of temperature on the size and population density of dinoflagellates in larvae of the reef coral <i>Porites astreoides</i> . <i>Invertebrate Biology</i> , 2005 , 124, 185-193	1	26
39	Hyperdiversity of genes encoding integral light-harvesting proteins in the dinoflagellate Symbiodinium sp. <i>PLoS ONE</i> , 2012 , 7, e47456	3.7	26

38	Defining the tipping point: a complex cellular life/death balance in corals in response to stress. <i>Scientific Reports</i> , 2011 , 1, 160	4.9	25
37	Symbiosis and microbiome flexibility in calcifying benthic foraminifera of the Great Barrier Reef. <i>Microbiome</i> , 2017 , 5, 38	16.6	23
36	Near-future reductions in pH will have no consistent ecological effects on the early life-history stages of reef corals. <i>Marine Ecology - Progress Series</i> , 2013 , 486, 143-151	2.6	23
35	Elevated seawater temperatures have a limited impact on the coral immune response following physical damage. <i>Hydrobiologia</i> , 2015 , 759, 201-214	2.4	22
34	A novel carbonic anhydrase from the giant clam <i>Tridacna gigas</i> contains two carbonic anhydrase domains. <i>FEBS Journal</i> , 2005 , 272, 3297-305	5.7	19
33	Meeting the photosynthetic demand for inorganic carbon in an alga-invertebrate association: preferential use of CO ₂ by symbionts in the giant clam <i>Tridacna gigas</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000 , 267, 523-9	4.4	18
32	Ammonium, but not nitrate, stimulates an increase in glutamine concentration in the haemolymph of <i>Tridacna gigas</i> . <i>Marine Biology</i> , 1999 , 133, 45-53	2.5	16
31	Exposure to elevated sea-surface temperatures below the bleaching threshold impairs coral recovery and regeneration following injury. <i>PeerJ</i> , 2017 , 5, e3719	3.1	16
30	Extraction protocol for nontargeted NMR and LC-MS metabolomics-based analysis of hard coral and their algal symbionts. <i>Methods in Molecular Biology</i> , 2013 , 1055, 129-47	1.4	15
29	The hologenome theory disregards the coral holobiont. <i>Nature Reviews Microbiology</i> , 2007 , 5, 826-826	22.2	15
28	The ReFuGe 2020 Consortium Using Omics Approaches to explore the adaptability and resilience of coral holobionts to environmental change. <i>Frontiers in Marine Science</i> , 2015 , 2,	4.5	14
27	Revealing changes in the microbiome of Symbiodiniaceae under thermal stress. <i>Environmental Microbiology</i> , 2020 , 22, 1294-1309	5.2	14
26	Coral Disease Causes, Consequences, and Risk within Coral Restoration. <i>Trends in Microbiology</i> , 2020 , 28, 793-807	12.4	13
25	Aerial exposure influences bleaching patterns. <i>Coral Reefs</i> , 2006 , 25, 452-452	4.2	12
24	Seeking Resistance in Coral Reef Ecosystems: The Interplay of Biophysical Factors and Bleaching Resistance under a Changing Climate: The Interplay of a Reef's Biophysical Factors Can Mitigate the Coral Bleaching Response. <i>BioEssays</i> , 2019 , 41, e1800226	4.1	11
23	Unlocking the black-box of inorganic carbon-uptake and utilization strategies among coral endosymbionts (Symbiodiniaceae). <i>Limnology and Oceanography</i> , 2020 , 65, 1747-1763	4.8	11
22	Integral Light-Harvesting Complex Expression In Symbiodinium Within The Coral <i>Acropora aspera</i> Under Thermal Stress. <i>Scientific Reports</i> , 2016 , 6, 25081	4.9	9
21	Resolving coral photoacclimation dynamics through coupled photophysiological and metabolomic profiling. <i>Journal of Experimental Biology</i> , 2019 , 222,	3	8

20	Photoacclimatory and photoprotective responses to cold versus heat stress in high latitude reef corals. <i>Journal of Phycology</i> , 2017 , 53, 308-321	3	8
19	New-old hemoglobin-like proteins of symbiotic dinoflagellates. <i>Ecology and Evolution</i> , 2013 , 3, 822-34	2.8	8
18	Multiple techniques point to oxygenic phototrophs dominating the Isopora palifera skeletal microbiome. <i>Coral Reefs</i> , 2021 , 40, 275-282	4.2	7
17	A Comparative Analysis of Microbial DNA Preparation Methods for Use With Massive and Branching Coral Growth Forms. <i>Frontiers in Microbiology</i> , 2018 , 9, 2146	5.7	7
16	In situ hybridisation detects pro-apoptotic gene expression of a Bcl-2 family member in white syndrome-affected coral. <i>Diseases of Aquatic Organisms</i> , 2015 , 117, 155-63	1.7	6
15	A place for taxonomic profiling in the study of the coral prokaryotic microbiome. <i>FEMS Microbiology Letters</i> , 2019 , 366,	2.9	5
14	Complementary sampling methods for coral histology, metabolomics and microbiome. <i>Methods in Ecology and Evolution</i> , 2020 , 11, 1012-1020	7.7	5
13	Imaging the fluorescence of marine invertebrates and their associated flora. <i>Journal of Microscopy</i> , 2008 , 232, 197-9	1.9	5
12	Understanding decay in marine calcifiers: Micro-CT analysis of skeletal structures provides insight into the impacts of a changing climate in marine ecosystems. <i>Methods in Ecology and Evolution</i> , 2020 , 11, 1021-1041	7.7	4
11	Diverse symbiont bleaching responses are evident from 2-degree heating week bleaching conditions as thermal stress intensifies in coral. <i>Marine and Freshwater Research</i> , 2020 , 71, 1149	2.2	4
10	Light Capture, Skeletal Morphology, and the Biomass of Corals' Boring Endoliths. <i>MSphere</i> , 2021 , 6,	5	3
9	Experiment Degree Heating Week (eDHW) as a novel metric to reconcile and validate past and future global coral bleaching studies. <i>Journal of Environmental Management</i> , 2022 , 301, 113919	7.9	2
8	Experimental evolution of the coral algal endosymbiont, <i>Cladocopium goreaui</i> : lessons learnt across a decade of stress experiments to enhance coral heat tolerance. <i>Restoration Ecology</i> , 2021 , 29, e13342	3.1	2
7	The Mesophotic Coral Microbial Biosphere. <i>Coral Reefs of the World</i> , 2019 , 493-505	2.1	1
6	High flow conditions mediate damaging impacts of sub-lethal thermal stress on corals' endosymbiotic algae 2021 , 9, coab046		1
5	Rebuilding relationships on coral reefs: Coral bleaching knowledge-sharing to aid adaptation planning for reef users: Bleaching emergence on reefs demonstrates the need to consider reef scale and accessibility when preparing for, and responding to, coral bleaching. <i>BioEssays</i> , 2021 , 43, e2100048	4.1	1
4	Proteome metabolome and transcriptome data for three Symbiodiniaceae under ambient and heat stress conditions.. <i>Scientific Data</i> , 2022 , 9, 153	8.2	1
3	The Meta-Organism Response of the Environmental Generalist Pocillopora damicornis Exposed to Differential Accumulation of Heat Stress. <i>Frontiers in Marine Science</i> , 2021 , 8,	4.5	1

- 2 Thylakoid fatty acid composition and response to short-term cold and heat stress in high-latitude Symbiodiniaceae. *Coral Reefs*, 1 4.2 0
- 1 Will daytime community calcification reflect reef accretion on future, degraded coral reefs?. *Biogeosciences*, **2022**, 19, 891-906 4.6