

Christian R Voolstra

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236 papers	10,185 citations	55 h-index	92 g-index
297 ext. papers	14,950 ext. citations	5.9 avg, IF	6.65 L-index

#	Paper	IF	Citations
236	Systematic Revision of Symbiodiniaceae Highlights the Antiquity and Diversity of Coral Endosymbionts. <i>Current Biology</i> , 2018 , 28, 2570-2580.e6	6.3	699
235	Differential gene expression during thermal stress and bleaching in the Caribbean coral <i>Montastraea faveolata</i> . <i>Molecular Ecology</i> , 2008 , 17, 3952-71	5.7	304
234	Bacterial diversity and White Plague Disease-associated community changes in the Caribbean coral <i>Montastraea faveolata</i> . <i>ISME Journal</i> , 2009 , 3, 512-21	11.9	287
233	Bacterial community dynamics are linked to patterns of coral heat tolerance. <i>Nature Communications</i> , 2017 , 8, 14213	17.4	262
232	Nitrogen cycling in corals: the key to understanding holobiont functioning?. <i>Trends in Microbiology</i> , 2015 , 23, 490-7	12.4	249
231	The genome of <i>Aiptasia</i> , a sea anemone model for coral symbiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 11893-8	11.5	244
230	Genomes of coral dinoflagellate symbionts highlight evolutionary adaptations conducive to a symbiotic lifestyle. <i>Scientific Reports</i> , 2016 , 6, 39734	4.9	210
229	Rapid adaptive responses to climate change in corals. <i>Nature Climate Change</i> , 2017 , 7, 627-636	21.4	201
228	The microbiome of the Red Sea coral <i>Stylophora pistillata</i> is dominated by tissue-associated <i>Endozoicomonas</i> bacteria. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 4759-62	4.8	188
227	Symbiodinium transcriptomes: genome insights into the dinoflagellate symbionts of reef-building corals. <i>PLoS ONE</i> , 2012 , 7, e35269	3.7	178
226	Assessing Symbiodinium diversity in scleractinian corals via next-generation sequencing-based genotyping of the ITS2 rDNA region. <i>Molecular Ecology</i> , 2014 , 23, 4418-33	5.7	161
225	Diversity and function of prevalent symbiotic marine bacteria in the genus <i>Endozoicomonas</i> . <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 8315-24	5.7	144
224	Differential specificity between closely related corals and abundant <i>Endozoicomonas</i> endosymbionts across global scales. <i>ISME Journal</i> , 2017 , 11, 186-200	11.9	142
223	Coral microbial community dynamics in response to anthropogenic impacts near a major city in the central Red Sea. <i>Marine Pollution Bulletin</i> , 2016 , 105, 629-40	6.7	133
222	Ancestral genetic diversity associated with the rapid spread of stress-tolerant coral symbionts in response to Holocene climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 4416-21	11.5	130
221	Transcriptomic responses to heat stress and bleaching in the elkhorn coral <i>Acropora palmata</i> . <i>Marine Ecology - Progress Series</i> , 2010 , 402, 97-113	2.6	126
220	Comparative genomics explains the evolutionary success of reef-forming corals. <i>ELife</i> , 2016 , 5,	8.9	126

219	Endozoicomonas genomes reveal functional adaptation and plasticity in bacterial strains symbiotically associated with diverse marine hosts. <i>Scientific Reports</i> , 2017 , 7, 40579	4.9	113
218	The host transcriptome remains unaltered during the establishment of coral-algal symbioses. <i>Molecular Ecology</i> , 2009 , 18, 1823-33	5.7	112
217	Coral life history and symbiosis: functional genomic resources for two reef building Caribbean corals, <i>Acropora palmata</i> and <i>Montastraea faveolata</i> . <i>BMC Genomics</i> , 2008 , 9, 97	4.5	110
216	Effects of temperature on gene expression in embryos of the coral <i>Montastraea faveolata</i> . <i>BMC Genomics</i> , 2009 , 10, 627	4.5	109
215	Thermal refugia against coral bleaching throughout the northern Red Sea. <i>Global Change Biology</i> , 2018 , 24, e474-e484	11.4	107
214	Coral host transcriptomic states are correlated with Symbiodinium genotypes. <i>Molecular Ecology</i> , 2010 , 19, 1174-86	5.7	105
213	Bicarbonate transporters in corals point towards a key step in the evolution of cnidarian calcification. <i>Scientific Reports</i> , 2015 , 5, 9983	4.9	103
212	Blind to morphology: genetics identifies several widespread ecologically common species and few endemics among Indo-Pacific cauliflower corals (<i>Pocillopora</i> , <i>Scleractinia</i>). <i>Journal of Biogeography</i> , 2013 , 40, 1595-1608	4.1	102
211	Bacterial profiling of White Plague Disease in a comparative coral species framework. <i>ISME Journal</i> , 2014 , 8, 31-9	11.9	98
210	Nutrient Availability and Metabolism Affect the Stability of Coral-Symbiodiniaceae Symbioses. <i>Trends in Microbiology</i> , 2019 , 27, 678-689	12.4	97
209	Metaorganisms in extreme environments: do microbes play a role in organismal adaptation?. <i>Zoology</i> , 2018 , 127, 1-19	1.7	94
208	Location-specific responses to thermal stress in larvae of the reef-building coral <i>Montastraea faveolata</i> . <i>PLoS ONE</i> , 2010 , 5, e11221	3.7	90
207	SymPortal: A novel analytical framework and platform for coral algal symbiont next-generation sequencing ITS2 profiling. <i>Molecular Ecology Resources</i> , 2019 , 19, 1063-1080	8.4	87
206	Biogeography and molecular diversity of coral symbionts in the genus around the Arabian Peninsula. <i>Journal of Biogeography</i> , 2017 , 44, 674-686	4.1	86
205	Microbiome structure of the fungid coral <i>Ctenactis echinata</i> aligns with environmental differences. <i>Molecular Ecology</i> , 2015 , 24, 3501-11	5.7	84
204	Integrating microRNA and mRNA expression profiling in Symbiodinium microadriaticum, a dinoflagellate symbiont of reef-building corals. <i>BMC Genomics</i> , 2013 , 14, 704	4.5	80
203	Long-term salinity tolerance is accompanied by major restructuring of the coral bacterial microbiome. <i>Molecular Ecology</i> , 2016 , 25, 1308-23	5.7	80
202	Rare symbionts may contribute to the resilience of coral-algal assemblages. <i>ISME Journal</i> , 2018 , 12, 161-172	8.0	80

201	A genomic view of the reef-building coral <i>Porites lutea</i> and its microbial symbionts. <i>Nature Microbiology</i> , 2019 , 4, 2090-2100	26.6	79
200	. <i>IEEE Robotics and Automation Magazine</i> , 2016 , 23, 20-29	3.4	78
199	Bacteria of the genus <i>Endozoicomonas</i> dominate the microbiome of the Mediterranean gorgonian coral <i>Eunicella cavolini</i> . <i>Marine Ecology - Progress Series</i> , 2013 , 479, 75-84	2.6	78
198	genomes reveal adaptive evolution of functions related to coral-dinoflagellate symbiosis. <i>Communications Biology</i> , 2018 , 1, 95	6.7	78
197	Sugar enrichment provides evidence for a role of nitrogen fixation in coral bleaching. <i>Global Change Biology</i> , 2017 , 23, 3838-3848	11.4	76
196	Epigenome-associated phenotypic acclimatization to ocean acidification in a reef-building coral. <i>Science Advances</i> , 2018 , 4, eaar8028	14.3	74
195	Coral bacterial community structure responds to environmental change in a host-specific manner. <i>Nature Communications</i> , 2019 , 10, 3092	17.4	74
194	Rapid evolution of coral proteins responsible for interaction with the environment. <i>PLoS ONE</i> , 2011 , 6, e20392	3.7	74
193	Gene Expression Variation Resolves Species and Individual Strains among Coral-Associated Dinoflagellates within the Genus <i>Symbiodinium</i> . <i>Genome Biology and Evolution</i> , 2016 , 8, 665-80	3.9	73
192	Comparative analysis of the genomes of <i>Stylophora pistillata</i> and <i>Acropora digitifera</i> provides evidence for extensive differences between species of corals. <i>Scientific Reports</i> , 2017 , 7, 17583	4.9	72
191	The Global Invertebrate Genomics Alliance (GIGA): developing community resources to study diverse invertebrate genomes. <i>Journal of Heredity</i> , 2014 , 105, 1-18	2.4	70
190	The effect of surface colour on the formation of marine micro and macrofouling communities. <i>Biofouling</i> , 2013 , 29, 617-27	3.3	70
189	In-situ effects of eutrophication and overfishing on physiology and bacterial diversity of the red sea coral <i>Acropora hemprichii</i> . <i>PLoS ONE</i> , 2013 , 8, e62091	3.7	70
188	Reefgenomics.Org - a repository for marine genomics data. <i>Database: the Journal of Biological Databases and Curation</i> , 2016 , 2016,	5	69
187	Bacterial profiling of White Plague Disease across corals and oceans indicates a conserved and distinct disease microbiome. <i>Molecular Ecology</i> , 2014 , 23, 965-74	5.7	66
186	Spatio-temporal analyses of <i>Symbiodinium</i> physiology of the coral <i>Pocillopora verrucosa</i> along large-scale nutrient and temperature gradients in the Red Sea. <i>PLoS ONE</i> , 2014 , 9, e103179	3.7	65
185	Coral transcriptome and bacterial community profiles reveal distinct Yellow Band Disease states in <i>Orbicella faveolata</i> . <i>ISME Journal</i> , 2014 , 8, 2411-22	11.9	63
184	Dominance of bacteria throughout coral bleaching and mortality suggests structural inflexibility of the microbiome. <i>Ecology and Evolution</i> , 2018 , 8, 2240-2252	2.8	61

183	In situ observations of coral bleaching in the central Saudi Arabian Red Sea during the 2015/2016 global coral bleaching event. <i>PLoS ONE</i> , 2018 , 13, e0195814	3.7	60
182	Developmental transcriptome of <i>Aplysia californica</i> . <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2011 , 316B, 113-34	1.8	58
181	Structural molecular components of septate junctions in cnidarians point to the origin of epithelial junctions in eukaryotes. <i>Molecular Biology and Evolution</i> , 2015 , 32, 44-62	8.3	55
180	Extensive phenotypic plasticity of a Red Sea coral over a strong latitudinal temperature gradient suggests limited acclimatization potential to warming. <i>Scientific Reports</i> , 2015 , 5, 8940	4.9	54
179	Identification and gene expression analysis of a taxonomically restricted cysteine-rich protein family in reef-building corals. <i>PLoS ONE</i> , 2009 , 4, e4865	3.7	53
178	<i>Aiptasia</i> sp. larvae as a model to reveal mechanisms of symbiont selection in cnidarians. <i>Scientific Reports</i> , 2016 , 6, 32366	4.9	51
177	Revealing microbial functional activities in the Red Sea sponge <i>Stylissa carteri</i> by metatranscriptomics. <i>Environmental Microbiology</i> , 2014 , 16, 3683-98	5.2	49
176	Adapting with Microbial Help: Microbiome Flexibility Facilitates Rapid Responses to Environmental Change. <i>BioEssays</i> , 2020 , 42, e2000004	4.1	48
175	Coral reef survival under accelerating ocean deoxygenation. <i>Nature Climate Change</i> , 2020 , 10, 296-307	21.4	48
174	From cholera to corals: Viruses as drivers of virulence in a major coral bacterial pathogen. <i>Scientific Reports</i> , 2015 , 5, 17889	4.9	48
173	Heat stress destabilizes symbiotic nutrient cycling in corals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	47
172	Mesophotic coral depth acclimatization is a function of host-specific symbiont physiology. <i>Frontiers in Marine Science</i> , 2015 , 2,	4.5	46
171	Limits to physiological plasticity of the coral <i>Pocillopora verrucosa</i> from the central Red Sea. <i>Coral Reefs</i> , 2014 , 33, 1115-1129	4.2	46
170	Down to the bone: the role of overlooked endolithic microbiomes in reef coral health. <i>ISME Journal</i> , 2020 , 14, 325-334	11.9	46
169	Desert plant bacteria reveal host influence and beneficial plant growth properties. <i>PLoS ONE</i> , 2018 , 13, e0208223	3.7	46
168	Whole-genome sequences of three symbiotic <i>Endozoicomonas</i> strains. <i>Genome Announcements</i> , 2014 , 2,		45
167	Spirochaetes dominate the microbial community associated with the red coral <i>Corallium rubrum</i> on a broad geographic scale. <i>Scientific Reports</i> , 2016 , 6, 27277	4.9	44
166	Comparative Assessment of Mediterranean Gorgonian-Associated Microbial Communities Reveals Conserved Core and Locally Variant Bacteria. <i>Microbial Ecology</i> , 2017 , 73, 466-478	4.4	44

165	Metatranscriptome analysis of the reef-building coral <i>Orbicella faveolata</i> indicates holobiont response to coral disease. <i>Frontiers in Marine Science</i> , 2015 , 2,	4.5	44
164	Rapid transcriptome and proteome profiling of a non-model marine invertebrate, <i>Bugula neritina</i> . <i>Proteomics</i> , 2010 , 10, 2972-81	4.8	44
163	Identification of differentially expressed genes involved in the formation of multicellular tumor spheroids by HT-29 colon carcinoma cells. <i>Molecular Therapy</i> , 2007 , 15, 94-102	11.7	44
162	Stable mucus-associated bacterial communities in bleached and healthy corals of <i>Porites lobata</i> from the Arabian Seas. <i>Scientific Reports</i> , 2017 , 7, 45362	4.9	43
161	Differential sensitivity of coral larvae to natural levels of ultraviolet radiation during the onset of larval competence. <i>Molecular Ecology</i> , 2011 , 20, 2955-72	5.7	43
160	Development and heat stress-induced transcriptomic changes during embryogenesis of the scleractinian coral <i>Acropora palmata</i> . <i>Marine Genomics</i> , 2010 , 3, 51-62	1.9	43
159	Year-Long Monitoring of Physico-Chemical and Biological Variables Provide a Comparative Baseline of Coral Reef Functioning in the Central Red Sea. <i>PLoS ONE</i> , 2016 , 11, e0163939	3.7	41
158	Standardized short-term acute heat stress assays resolve historical differences in coral thermotolerance across microhabitat reef sites. <i>Global Change Biology</i> , 2020 , 26, 4328-4343	11.4	40
157	Hologenome analysis of two marine sponges with different microbiomes. <i>BMC Genomics</i> , 2016 , 17, 158	4.5	40
156	Using <i>Aiptasia</i> as a Model to Study Metabolic Interactions in Cnidarian- Symbioses. <i>Frontiers in Physiology</i> , 2018 , 9, 214	4.6	39
155	DNA methylation regulates transcriptional homeostasis of algal endosymbiosis in the coral model <i>Aiptasia</i> . <i>Science Advances</i> , 2018 , 4, eaat2142	14.3	39
154	The chloroplast genome of a <i>Symbiodinium</i> sp. clade C3 isolate. <i>Protist</i> , 2014 , 165, 1-13	2.5	39
153	Distinct Bacterial Communities Associated with the Coral Model <i>Aiptasia</i> in Aposymbiotic and Symbiotic States with <i>Symbiodinium</i> . <i>Frontiers in Marine Science</i> , 2016 , 3,	4.5	39
152	Gene expression microarray analysis encompassing metamorphosis and the onset of calcification in the scleractinian coral <i>Montastraea faveolata</i> . <i>Marine Genomics</i> , 2009 , 2, 149-59	1.9	37
151	Condition-specific RNA editing in the coral symbiont <i>Symbiodinium microadriaticum</i> . <i>PLoS Genetics</i> , 2017 , 13, e1006619	6	36
150	Identification of microRNAs in the coral <i>Stylophora pistillata</i> . <i>PLoS ONE</i> , 2014 , 9, e91101	3.7	36
149	An improved primer set and amplification protocol with increased specificity and sensitivity targeting the ITS2 region. <i>PeerJ</i> , 2018 , 6, e4816	3.1	36
148	Excess labile carbon promotes the expression of virulence factors in coral reef bacterioplankton. <i>ISME Journal</i> , 2018 , 12, 59-76	11.9	34

147	First biological measurements of deep-sea corals from the Red Sea. <i>Scientific Reports</i> , 2013 , 3, 2802	4.9	34
146	The role of floridoside in osmoadaptation of coral-associated algal endosymbionts to high-salinity conditions. <i>Science Advances</i> , 2017 , 3, e1602047	14.3	33
145	Nitrogen Fixation Aligns with Abundance and Expression in Two Coral Trophic Functional Groups. <i>Frontiers in Microbiology</i> , 2017 , 8, 1187	5.7	33
144	Corals in the hottest reefs in the world exhibit symbiont fidelity not flexibility. <i>Molecular Ecology</i> , 2020 , 29, 899-911	5.7	32
143	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
142	Niche acclimatization in Red Sea corals is dependent on flexibility of host-symbiont association. <i>Marine Ecology - Progress Series</i> , 2015 , 533, 149-161	2.6	31
141	Seasonal Stability in the Microbiomes of Temperate Gorgonians and the Red Coral <i>Corallium rubrum</i> Across the Mediterranean Sea. <i>Microbial Ecology</i> , 2018 , 75, 274-288	4.4	30
140	Engineering Strategies to Decode and Enhance the Genomes of Coral Symbionts. <i>Frontiers in Microbiology</i> , 2017 , 8, 1220	5.7	30
139	Diatom modulation of select bacteria through use of two unique secondary metabolites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 27445-27455	11.5	30
138	Coral Probiotics: Premise, Promise, Prospects. <i>Annual Review of Animal Biosciences</i> , 2021 , 9, 265-288	13.7	30
137	Resolving structure and function of metaorganisms through a holistic framework combining reductionist and integrative approaches. <i>Zoology</i> , 2019 , 133, 81-87	1.7	29
136	Critical research needs for identifying future changes in Gulf coral reef ecosystems. <i>Marine Pollution Bulletin</i> , 2013 , 72, 406-16	6.7	29
135	A journey into the wild of the cnidarian model system <i>Aiptasia</i> and its symbionts. <i>Molecular Ecology</i> , 2013 , 22, 4366-8	5.7	29
134	Worldwide Occurrence and Activity of the Reef-Building Coral Symbiont Symbiodinium in the Open Ocean. <i>Current Biology</i> , 2018 , 28, 3625-3633.e3	6.3	29
133	Coral microbiome diversity reflects mass coral bleaching susceptibility during the 2016 El Niño heat wave. <i>Ecology and Evolution</i> , 2019 , 9, 938-956	2.8	28
132	Absence of genetic differentiation in the coral <i>Pocillopora verrucosa</i> along environmental gradients of the Saudi Arabian Red Sea. <i>Frontiers in Marine Science</i> , 2015 , 2,	4.5	28
131	Microbial community composition of deep-sea corals from the Red Sea provides insight into functional adaption to a unique environment. <i>Scientific Reports</i> , 2017 , 7, 44714	4.9	27
130	Expression of a symbiosis-specific gene in type A1 associated with coral, nudibranch and giant clam larvae. <i>Royal Society Open Science</i> , 2017 , 4, 170253	3.3	27

129	Coral microbiome composition along the northern Red Sea suggests high plasticity of bacterial and specificity of endosymbiotic dinoflagellate communities. <i>Microbiome</i> , 2020 , 8, 8	16.6	26
128	High salinity conveys thermotolerance in the coral model <i>Aiptasia</i> . <i>Biology Open</i> , 2017 , 6, 1943-1948	2.2	26
127	Spatial and seasonal reef calcification in corals and calcareous crusts in the central Red Sea. <i>Coral Reefs</i> , 2016 , 35, 681-693	4.2	26
126	Coral reefs of the Red Sea – Challenges and potential solutions. <i>Regional Studies in Marine Science</i> , 2019 , 25, 100498	1.5	25
125	Increasing comparability among coral bleaching experiments. <i>Ecological Applications</i> , 2021 , 31, e02262	4.9	24
124	Prevalent and persistent viral infection in cultures of the coral algal endosymbiont Symbiodinium. <i>Coral Reefs</i> , 2017 , 36, 773-784	4.2	23
123	Designing a blueprint for coral reef survival. <i>Biological Conservation</i> , 2021 , 257, 109107	6.2	23
122	Environmental latitudinal gradients and host-specificity shape Symbiodiniaceae distribution in Red Sea <i>Porites</i> corals. <i>Journal of Biogeography</i> , 2019 , 46, 2323-2335	4.1	22
121	In-Situ Effects of Simulated Overfishing and Eutrophication on Benthic Coral Reef Algae Growth, Succession, and Composition in the Central Red Sea. <i>PLoS ONE</i> , 2013 , 8, e66992	3.7	22
120	Fine-scale delineation of Symbiodiniaceae genotypes on a previously bleached central Red Sea reef system demonstrates a prevalence of coral host-specific associations. <i>Coral Reefs</i> , 2020 , 39, 583-601	4.2	21
119	Evidence for coral range expansion accompanied by reduced diversity of Symbiodinium genotypes. <i>Coral Reefs</i> , 2017 , 36, 981-985	4.2	21
118	Extending the natural adaptive capacity of coral holobionts. <i>Nature Reviews Earth & Environment</i> ,	30.2	21
117	Evidence for miRNA-mediated modulation of the host transcriptome in cnidarian-dinoflagellate symbiosis. <i>Molecular Ecology</i> , 2018 , 27, 403-418	5.7	21
116	Marine Invertebrate Larvae Associated with Symbiodinium: A Mutualism from the Start?. <i>Frontiers in Ecology and Evolution</i> , 2017 , 5,	3.7	20
115	Alkaloids from the Sponge <i>Stylissa carteri</i> Present Prospective Scaffolds for the Inhibition of Human Immunodeficiency Virus 1 (HIV-1). <i>Marine Drugs</i> , 2016 , 14,	6	20
114	An optimized embryonic stem cell model for consistent gene expression and developmental studies: a fundamental study. <i>Thrombosis and Haemostasis</i> , 2005 , 94, 719-27	7	19
113	Coral microbiome manipulation elicits metabolic and genetic restructuring to mitigate heat stress and evade mortality. <i>Science Advances</i> , 2021 , 7,	14.3	19
112	The Red Sea: Environmental Gradients Shape a Natural Laboratory in a Nascent Ocean. <i>Coral Reefs of the World</i> , 2019 , 1-10	2.1	18

111	High salinity tolerance of the Red Sea coral <i>Fungia granulosa</i> under desalination concentrate discharge conditions: an in situ photophysiology experiment. <i>Frontiers in Marine Science</i> , 2014 , 1,	4.5	18
110	A change of expression in the conserved signaling gene MKK7 is associated with a selective sweep in the western house mouse <i>Mus musculus domesticus</i> . <i>Journal of Evolutionary Biology</i> , 2006 , 19, 1486-963	2.3	18
109	Corals exhibit distinct patterns of microbial reorganisation to thrive in an extreme inshore environment. <i>Coral Reefs</i> , 2020 , 39, 701-716	4.2	18
108	Denitrification Aligns with N Fixation in Red Sea Corals. <i>Scientific Reports</i> , 2019 , 9, 19460	4.9	18
107	Expanding Tara Oceans Protocols for Underway, Ecosystemic Sampling of the Ocean-Atmosphere Interface During Tara Pacific Expedition (2016-2018). <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	18
106	The Tara Pacific expedition-A pan-ecosystemic approach of the "-omics" complexity of coral reef holobionts across the Pacific Ocean. <i>PLoS Biology</i> , 2019 , 17, e3000483	9.7	17
105	Differential Ecological Specificity of Protist and Bacterial Microbiomes across a Set of Termite Species. <i>Frontiers in Microbiology</i> , 2017 , 8, 2518	5.7	17
104	Advancing Genomics through the Global Invertebrate Genomics Alliance (GIGA). <i>Invertebrate Systematics</i> , 2017 , 31, 1-7	1.2	16
103	Disentangling the complex microbial community of coral reefs using standardized Autonomous Reef Monitoring Structures (ARMS). <i>Molecular Ecology</i> , 2019 , 28, 3496-3507	5.7	16
102	Distinct Bacterial Microbiomes Associate with the Deep-Sea Coral <i>Eguchipsammia fistula</i> from the Red Sea and from Aquaria Settings. <i>Frontiers in Marine Science</i> , 2017 , 4,	4.5	16
101	Genetic and spatial organization of the unusual chromosomes of the dinoflagellate <i>Symbiodinium microadriaticum</i> . <i>Nature Genetics</i> , 2021 , 53, 618-629	36.3	16
100	Association of coral algal symbionts with a diverse viral community responsive to heat shock. <i>BMC Microbiology</i> , 2017 , 17, 174	4.5	15
99	Stimulated Respiration and Net Photosynthesis in <i>Cassiopeia</i> sp. during Glucose Enrichment Suggests in hospite CO ₂ Limitation of Algal Endosymbionts. <i>Frontiers in Marine Science</i> , 2017 , 4,	4.5	15
98	Fast and pervasive transcriptomic resilience and acclimation of extremely heat-tolerant coral holobionts from the northern Red Sea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	15
97	An in situ approach for measuring biogeochemical fluxes in structurally complex benthic communities. <i>Methods in Ecology and Evolution</i> , 2019 , 10, 712-725	7.7	15
96	Laboratory-Cultured Strains of the Sea Anemone <i>Exaiptasia</i> Reveal Distinct Bacterial Communities. <i>Frontiers in Marine Science</i> , 2017 , 4,	4.5	14
95	Anti-cancer agents in Saudi Arabian herbals revealed by automated high-content imaging. <i>PLoS ONE</i> , 2017 , 12, e0177316	3.7	14
94	In situ effects of simulated overfishing and eutrophication on settlement of benthic coral reef invertebrates in the Central Red Sea. <i>PeerJ</i> , 2014 , 2, e339	3.1	14

93	Divergent expression of hypoxia response systems under deoxygenation in reef-forming corals aligns with bleaching susceptibility. <i>Global Change Biology</i> , 2021 , 27, 312-326	11.4	14
92	Science, Diplomacy, and the Red Sea—Unique Coral Reef: It's Time for Action. <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	13
91	Transcriptomes and expression profiling of deep-sea corals from the Red Sea provide insight into the biology of azooxanthellate corals. <i>Scientific Reports</i> , 2017 , 7, 6442	4.9	13
90	Ecological and molecular characterization of a coral black band disease outbreak in the Red Sea during a bleaching event. <i>PeerJ</i> , 2018 , 6, e5169	3.1	13
89	Carbohydrate composition of mucus from scleractinian corals from the central Red Sea. <i>Coral Reefs</i> , 2019 , 38, 21-27	4.2	13
88	High-resolution phenotypic profiling of natural products-induced effects on the single-cell level. <i>Scientific Reports</i> , 2017 , 7, 44472	4.9	12
87	Long-Term Impacts of the 1997–1998 Bleaching Event on the Growth and Resilience of Massive Porites Corals From the Central Red Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 2936-2954	3.6	12
86	Coral reef carbonate budgets and ecological drivers in the central Red Sea in a naturally high temperature and high total alkalinity environment. <i>Biogeosciences</i> , 2018 , 15, 6277-6296	4.6	12
85	Key Questions for Research and Conservation of Mesophotic Coral Ecosystems and Temperate Mesophotic Ecosystems. <i>Coral Reefs of the World</i> , 2019 , 989-1003	2.1	11
84	Bioactive Potential of Marine Macroalgae from the Central Red Sea (Saudi Arabia) Assessed by High-Throughput Imaging-Based Phenotypic Profiling. <i>Marine Drugs</i> , 2017 , 15,	6	11
83	Identification of a 3-Alkylpyridinium Compound from the Red Sea Sponge with Inhibitory Activity against the West Nile Virus NS3 Protease. <i>Molecules</i> , 2018 , 23,	4.8	11
82	A test of the neutral model of expression change in natural populations of house mouse subspecies. <i>Evolution; International Journal of Organic Evolution</i> , 2010 , 64, 549-60	3.8	11
81	In situ eutrophication stimulates dinitrogen fixation, denitrification, and productivity in Red Sea coral reefs. <i>Marine Ecology - Progress Series</i> , 2020 , 645, 55-66	2.6	11
80	The World Coral Conservatory (WCC): A Noah's ark for corals to support survival of reef ecosystems. <i>PLoS Biology</i> , 2020 , 18, e3000823	9.7	11
79	Insights into the Cultured Bacterial Fraction of Corals. <i>MSystems</i> , 2021 , 6, e0124920	7.6	11
78	Remarkably high and consistent tolerance of a Red Sea coral to acute and chronic thermal stress exposures. <i>Limnology and Oceanography</i> , 2021 , 66, 1718-1729	4.8	11
77	Low Symbiodiniaceae diversity in a turbid marginal reef environment. <i>Coral Reefs</i> , 2020 , 39, 545-553	4.2	10
76	Physical Mechanisms Routing Nutrients in the Central Red Sea. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 9032-9046	3.3	10

75	Aqueous extracts of the marine brown alga <i>Lobophora variegata</i> inhibit HIV-1 infection at the level of virus entry into cells. <i>PLoS ONE</i> , 2014 , 9, e103895	3.7	10
74	Captive rearing of the deep-sea coral <i>Eguchipsammia fistula</i> from the Red Sea demonstrates remarkable physiological plasticity. <i>PeerJ</i> , 2015 , 3, e734	3.1	9
73	High levels of floridoside at high salinity link osmoadaptation with bleaching susceptibility in the cnidarian-algal endosymbiosis. <i>Biology Open</i> , 2019 , 8,	2.2	9
72	High summer temperatures amplify functional differences between coral- and algae-dominated reef communities. <i>Ecology</i> , 2021 , 102, e03226	4.6	9
71	Transcriptional response of the heat shock gene hsp70 aligns with differences in stress susceptibility of shallow-water corals from the Mediterranean Sea. <i>Marine Environmental Research</i> , 2018 , 140, 444-454	3.3	8
70	Assessing the effects of iron enrichment across holobiont compartments reveals reduced microbial nitrogen fixation in the Red Sea coral. <i>Ecology and Evolution</i> , 2017 , 7, 6614-6621	2.8	8
69	Genomic Blueprint of Glycine Betaine Metabolism in Coral Metaorganisms and Their Contribution to Reef Nitrogen Budgets. <i>IScience</i> , 2020 , 23, 101120	6.1	8
68	Rebuilding Coral Reefs: A Decadal Grand Challenge		8
67	Similar bacterial communities on healthy and injured skin of black tip reef sharks. <i>Animal Microbiome</i> , 2019 , 1, 9	4.1	8
66	Consensus Guidelines for Advancing Coral Holobiont Genome and Specimen Voucher Deposition. <i>Frontiers in Marine Science</i> , 2021 , 8,	4.5	8
65	Contrasting heat stress response patterns of coral holobionts across the Red Sea suggest distinct mechanisms of thermal tolerance. <i>Molecular Ecology</i> , 2021 , 30, 4466-4480	5.7	8
64	Tissue-Specific Microbiomes of the Red Sea Giant Clam Highlight Differential Abundance of Endozoicomonadaceae. <i>Frontiers in Microbiology</i> , 2019 , 10, 2661	5.7	7
63	Evolutionary insights into scleractinian corals using comparative genomic hybridizations. <i>BMC Genomics</i> , 2012 , 13, 501	4.5	7
62	Unexpected complexity of the reef-building coral <i>Acropora millepora</i> transcription factor network. <i>BMC Systems Biology</i> , 2011 , 5, 58	3.5	7
61	The coral holobiont highlights the dependence of cnidarian animal hosts on their associated microbes 2020 , 91-118		7
60	Coral-Associated Viral Assemblages From the Central Red Sea Align With Host Species and Contribute to Holobiont Genetic Diversity. <i>Frontiers in Microbiology</i> , 2020 , 11, 572534	5.7	7
59	Nutrient stress arrests tentacle growth in the coral model <i>Aiptasia</i> . <i>Symbiosis</i> , 2019 , 78, 61-64	3	6
58	Ecophysiology of Reef-Building Corals in the Red Sea. <i>Coral Reefs of the World</i> , 2019 , 33-52	2.1	6

57	Microbial Communities of Red Sea Coral Reefs. <i>Coral Reefs of the World</i> , 2019 , 53-68	2.1	6
56	Robustness to extinction and plasticity derived from mutualistic bipartite ecological networks. <i>Scientific Reports</i> , 2020 , 10, 9783	4.9	6
55	Status of coral reefs of Upolu (Independent State of Samoa) in the South West Pacific and recommendations to promote resilience and recovery of coastal ecosystems. <i>Marine Pollution Bulletin</i> , 2018 , 129, 392-398	6.7	6
54	Genome-Based Analyses of Six Hexacorallian Species Reject the "Naked Coral" Hypothesis. <i>Genome Biology and Evolution</i> , 2017 , 9, 2626-2634	3.9	6
53	Contrasting heat stress response patterns of coral holobionts across the Red Sea suggest distinct mechanisms of thermal tolerance		6
52	First insight into the viral community of the cnidarian model metaorganism Aiptasia using RNA-Seq data. <i>PeerJ</i> , 2018 , 6, e4449	3.1	6
51	Epigenome-associated phenotypic acclimatization to ocean acidification in a reef-building coral		6
50	Relative Diazotroph Abundance in Symbiotic Red Sea Corals Decreases With Water Depth. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	6
49	High rates of carbon and dinitrogen fixation suggest a critical role of benthic pioneer communities in the energy and nutrient dynamics of coral reefs. <i>Functional Ecology</i> , 2020 , 34, 1991-2004	5.6	5
48	Evidence for a role of protein phosphorylation in the maintenance of the cnidarian-algal symbiosis. <i>Molecular Ecology</i> , 2019 , 28, 5373-5386	5.7	5
47	Ecological specificity of the metagenome in a set of lower termite species supports contribution of the microbiome to adaptation of the host. <i>Animal Microbiome</i> , 2019 , 1, 13	4.1	5
46	Tara Pacific Expedition—Atmospheric Measurements of Marine Aerosols across the Atlantic and Pacific Oceans: Overview and Preliminary Results. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E536-E554	6.1	5
45	Projecting coral responses to intensifying marine heatwaves under ocean acidification. <i>Global Change Biology</i> , 2021 ,	11.4	5
44	Symbiodiniaceae Diversity in Red Sea Coral Reefs & Coral Bleaching. <i>Coral Reefs of the World</i> , 2019 , 69-82.	8.1	4
43	Simultaneous Measurements of Dinitrogen Fixation and Denitrification Associated With Coral Reef Substrates: Advantages and Limitations of a Combined Acetylene Assay. <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	4
42	Molecular techniques and their limitations shape our view of the holobiont. <i>Zoology</i> , 2019 , 137, 125695	1.7	4
41	DNA methylation regulates transcriptional homeostasis of algal endosymbiosis in the coral model Aiptasia		4
40	The Genome of the Cauliflower Coral <i>Pocillopora verrucosa</i> . <i>Genome Biology and Evolution</i> , 2020 , 12, 1911-1917	3.9	4

39	Surface Topography, Bacterial Carrying Capacity, and the Prospect of Microbiome Manipulation in the Sea Anemone Coral Model <i>Aiptasia</i> . <i>Frontiers in Microbiology</i> , 2021 , 12, 637834	5.7	4
38	Nitrogen fixation and denitrification activity differ between coral- and algae-dominated Red Sea reefs. <i>Scientific Reports</i> , 2021 , 11, 11820	4.9	4
37	Xestospongia testudinaria nighttime mass spawning observation in Indonesia. <i>Galaxea</i> , 2016 , 18, 1-2	0.5	4
36	The many faced symbiotic snakelocks anemone (<i>Anemonia viridis</i> , Anthozoa): host and symbiont genetic differentiation among colour morphs. <i>Heredity</i> , 2020 , 124, 351-366	3.6	4
35	Repeated observations of cetaceans and carcharhiniformes associations in the Red Sea. <i>Marine Biodiversity</i> , 2016 , 46, 25-26	1.4	3
34	Heat stress reduces the contribution of diazotrophs to coral holobiont nitrogen cycling. <i>ISME Journal</i> , 2021 ,	11.9	3
33	First record of crustose coralline algae diseases in the Red Sea. <i>Bulletin of Marine Science</i> , 2017 , 93, 985-986	1.9	3
32	Advanced identification of global bioactivity hotspots via screening of the metabolic fingerprint of entire ecosystems. <i>Scientific Reports</i> , 2020 , 10, 1319	4.9	3
31	Chromosome-scale assembly of the coral endosymbiont <i>Symbiodinium microadriaticum</i> genome provides insight into the unique biology of dinoflagellate chromosomes		3
30	Nutrient pollution enhances productivity and framework dissolution in algae- but not in coral-dominated reef communities. <i>Marine Pollution Bulletin</i> , 2021 , 168, 112444	6.7	3
29	Microbes support enhanced nitrogen requirements of coral holobionts in a high CO ₂ environment. <i>Molecular Ecology</i> , 2021 , 30, 5888-5899	5.7	3
28	Characterization of new microsatellite loci for population genetic studies in the Smooth Cauliflower Coral (<i>Stylophora</i> sp.). <i>Conservation Genetics Resources</i> , 2013 , 5, 561-563	0.8	2
27	Identification of a gene expression core signature for Duchenne muscular dystrophy (DMD) via integrative analysis reveals novel potential compounds for treatment 2010 ,		2
26	Naturally occurring fire coral clones demonstrate a genetic and environmental basis of microbiome composition. <i>Nature Communications</i> , 2021 , 12, 6402	17.4	2
25	Contrasting microbiome dynamics of putative denitrifying bacteria in two octocoral species exposed to dissolved organic carbon (DOC) and warming. <i>Applied and Environmental Microbiology</i> , 2021 , AEM0188621	4.8	2
24	mtDNA recombination indicative of hybridization suggests a role of the mitogenome in the adaptation of reef-building corals to extreme environments		2
23	Hypoxia as a physiological cue and pathological stress for coral larvae. <i>Molecular Ecology</i> , 2021 ,	5.7	2
22	<i>Symbiodinium</i> genomes reveal adaptive evolution of functions related to symbiosis		2

21	A framework for in situ molecular characterization of coral holobionts using nanopore sequencing. <i>Scientific Reports</i> , 2020 , 10, 15893	4.9	2
20	Relative abundance of nitrogen cycling microbes in coral holobionts reflects environmental nitrate availability. <i>Royal Society Open Science</i> , 2021 , 8, 201835	3.3	2
19	High plasticity of nitrogen fixation and denitrification of common coral reef substrates in response to nitrate availability. <i>Marine Pollution Bulletin</i> , 2021 , 168, 112430	6.7	2
18	A comparative baseline of coral disease in three regions along the Saudi Arabian coast of the central Red Sea. <i>PLoS ONE</i> , 2021 , 16, e0246854	3.7	2
17	Diel cycle of sea spray aerosol concentration. <i>Nature Communications</i> , 2021 , 12, 5476	17.4	2
16	Integrating environmental variability to broaden the research on coral responses to future ocean conditions. <i>Global Change Biology</i> , 2021 , 27, 5532-5546	11.4	2
15	A new species of squat lobster of the genus <i>Munida</i> (Galatheoidea, Munididae) from the Red Sea. <i>Crustaceana</i> , 2017 , 90, 1005-1014	0.4	1
14	Corrigendum to: Advancing genomics through the Global Invertebrate Genomics Alliance (GIGA). <i>Invertebrate Systematics</i> , 2017 , 31, 231	1.2	1
13	Effects of Ocean Acidification on Resident and Active Microbial Communities of .. <i>Frontiers in Microbiology</i> , 2021 , 12, 707674	5.7	1
12	A Closing Window of Opportunity to Save a Unique Marine Ecosystem. <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	1
11	A Salty Coral Secret: How High Salinity Helps Corals To Be Stronger. <i>Frontiers for Young Minds</i> , 7,	1.5	1
10	Physicochemical Dynamics, Microbial Community Patterns, and Reef Growth in Coral Reefs of the Central Red Sea. <i>Springer Oceanography</i> , 2019 , 401-418	0.5	1
9	A comparative baseline of coral disease across the central Red Sea		1
8	Widespread oxyregulation in tropical corals under hypoxia.. <i>Marine Pollution Bulletin</i> , 2022 , 179, 113722	6.7	1
7	Coral Bleaching: A Colorful Struggle for Survival. <i>Current Biology</i> , 2020 , 30, R768-R770	6.3	0
6	Flexibility in Red Sea -Symbiodiniaceae associations supports environmental niche adaptation. <i>Ecology and Evolution</i> , 2021 , 11, 3393-3406	2.8	0
5	Evolutionary Cell Biology (ECB): Lessons, challenges, and opportunities for the integrative study of cell evolution. <i>Journal of Biosciences</i> , 2021 , 46, 1	2.3	0
4	Symbiodinium microadriaticum (coral microalgal endosymbiont). <i>Trends in Genetics</i> , 2021 , 37, 1044-1045	8.5	0

- 3 Emergence of distinct syntenic density regimes is associated with early metazoan genomic transitions.. *BMC Genomics*, **2022**, 23, 143 4.5 ○
- 2 Molecular methods for biofilms **2014**, 87-137
- 1 Horizontal acquisition of Symbiodiniaceae in the *Anemonia viridis* (Cnidaria, Anthozoa) species complex. *Molecular Ecology*, **2021**, 30, 391-405 5.7