

Jean-Baptiste Raina

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

4,625
citations

159585

30
h-index

149698

56
g-index

62
all docs

62
docs citations

62
times ranked

4357
citing authors

#	ARTICLE	IF	CITATIONS
1	Heat stress reduces the contribution of diazotrophs to coral holobiont nitrogen cycling. <i>ISME Journal</i> , 2022, 16, 1110-1118.	9.8	21
2	Diatom Biogeography, Temporal Dynamics, and Links to Bacterioplankton across Seven Oceanographic Time-Series Sites Spanning the Australian Continent. <i>Microorganisms</i> , 2022, 10, 338.	3.6	5
3	Survival in a Sea of Gradients: Bacterial and Archaeal Foraging in a Heterogeneous Ocean. <i>The Microbiomes of Humans, Animals, Plants, and the Environment</i> , 2022, , 47-102.	0.6	1
4	Mucospheres produced by a mixotrophic protist impact ocean carbon cycling. <i>Nature Communications</i> , 2022, 13, 1301.	12.8	27
5	Chemotaxis shapes the microscale organization of the ocean's microbiome. <i>Nature</i> , 2022, 605, 132-138.	27.8	51
6	Disentangling compartment functions in sessile marine invertebrates. <i>Trends in Ecology and Evolution</i> , 2022, 37, 740-748.	8.7	13
7	DMSP Production by Coral-Associated Bacteria. <i>Frontiers in Marine Science</i> , 2022, 9, .	2.5	17
8	Greater functional diversity and redundancy of coral endolithic microbiomes align with lower coral bleaching susceptibility. <i>ISME Journal</i> , 2022, 16, 2406-2420.	9.8	21
9	Heat stress decreases the diversity, abundance and functional potential of coral gas emissions. <i>Global Change Biology</i> , 2021, 27, 879-891.	9.5	14
10	Symbiont shuffling across environmental gradients aligns with changes in carbon uptake and translocation in the reef-building coral <i>Pocillopora acuta</i> . <i>Coral Reefs</i> , 2021, 40, 595-607.	2.2	29
11	Comparative volatilomics of coral endosymbionts from one- and comprehensive two-dimensional gas chromatography approaches. <i>Marine Biology</i> , 2021, 168, 1.	1.5	12
12	Coral mucus rapidly induces chemokinesis and genome-wide transcriptional shifts toward early pathogenesis in a bacterial coral pathogen. <i>ISME Journal</i> , 2021, 15, 3668-3682.	9.8	14
13	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, .	7.1	179
14	Symbiotic associations of the deepest recorded photosynthetic scleractinian coral (172 m depth). <i>ISME Journal</i> , 2021, 15, 1564-1568.	9.8	25
15	Rapid Shifts in Bacterial Communities and Homogeneity of Symbiodiniaceae in Colonies of <i>Pocillopora acuta</i> Transplanted Between Reef and Mangrove Environments. <i>Frontiers in Microbiology</i> , 2021, 12, 756091.	3.5	18
16	Microvolume DNA extraction methods for microscale amplicon and metagenomic studies. <i>ISME Communications</i> , 2021, 1, .	4.2	10
17	Highly heterogeneous temporal dynamics in the abundance and diversity of the emerging pathogens <i>Arcobacter</i> at an urban beach. <i>Water Research</i> , 2020, 171, 115405.	11.3	11
18	Down to the bone: the role of overlooked endolithic microbiomes in reef coral health. <i>ISME Journal</i> , 2020, 14, 325-334.	9.8	97

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19	Crustose coralline algae that promote coral larval settlement harbor distinct surface bacterial communities. <i>Coral Reefs</i> , 2020, 39, 1703-1713.	2.2	23
20	The Volatilomes of Symbiodiniaceae-Associated Bacteria Are Influenced by Chemicals Derived From Their Algal Partner. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	22
21	In Situ Chemotaxis Assay to Examine Microbial Behavior in Aquatic Ecosystems. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	10
22	Symbiodiniaceae-bacteria interactions: rethinking metabolite exchange in reef-building corals as multi-partner metabolic networks. <i>Environmental Microbiology</i> , 2020, 22, 1675-1687.	3.8	89
23	Single-cell bacterial transcription measurements reveal the importance of dimethylsulfoniopropionate (DMSP) hotspots in ocean sulfur cycling. <i>Nature Communications</i> , 2020, 11, 1942.	12.8	30
24	The coral holobiont highlights the dependence of cnidarian animal hosts on their associated microbes. , 2020, , 91-118.		23
25	The role of microbial motility and chemotaxis in symbiosis. <i>Nature Reviews Microbiology</i> , 2019, 17, 284-294.	28.6	160
26	Transcriptomic analysis reveals protein homeostasis breakdown in the coral <i>Acropora millepora</i> during hypo-saline stress. <i>BMC Genomics</i> , 2019, 20, 148.	2.8	33
27	Coral endosymbionts (Symbiodiniaceae) emit species-specific volatilomes that shift when exposed to thermal stress. <i>Scientific Reports</i> , 2019, 9, 17395.	3.3	35
28	Symbiosis in the microbial world: from ecology to genome evolution. <i>Biology Open</i> , 2018, 7, .	1.2	34
29	DSYB catalyses the key step of dimethylsulfoniopropionate biosynthesis in many phytoplankton. <i>Nature Microbiology</i> , 2018, 3, 430-439.	13.3	116
30	Antimicrobial and stress responses to increased temperature and bacterial pathogen challenge in the holobiont of a reef-building coral. <i>Molecular Ecology</i> , 2018, 27, 1065-1080.	3.9	53
31	<i>In situ</i> metabolomic- and transcriptomic-profiling of the host-associated cyanobacteria <i>Prochloron</i> and <i>Acaryochloris marina</i> . <i>ISME Journal</i> , 2018, 12, 556-567.	9.8	7
32	Defining the core microbiome of the symbiotic dinoflagellate, <i>Symbiodinium</i> . <i>Environmental Microbiology Reports</i> , 2018, 10, 7-11.	2.4	94
33	Quantifying Inorganic Nitrogen Assimilation by <i>Synechococcus</i> Using Bulk and Single-Cell Mass Spectrometry: A Comparative Study. <i>Frontiers in Microbiology</i> , 2018, 9, 2847.	3.5	6
34	The Life Aquatic at the Microscale. <i>MSystems</i> , 2018, 3, .	3.8	3
35	Using <i>Aiptasia</i> as a Model to Study Metabolic Interactions in Cnidarian-Symbiodinium Symbioses. <i>Frontiers in Physiology</i> , 2018, 9, 214.	2.8	72
36	Swimming in the sea: chemotaxis by marine bacteria. <i>Microbiology Australia</i> , 2018, 39, 12.	0.4	4

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37	Reactive oxygen species (ROS) and dimethylated sulphur compounds in coral explants under acute thermal stress. <i>Journal of Experimental Biology</i> , 2017, 220, 1787-1791.	1.7	37
38	Zooming in on the phycosphere: the ecological interface for phytoplankton-bacteria relationships. <i>Nature Microbiology</i> , 2017, 2, 17065.	13.3	727
39	Transcriptomic analysis of the response of <i>Acropora millepora</i> to hypo-osmotic stress provides insights into DMSP biosynthesis by corals. <i>BMC Genomics</i> , 2017, 18, 612.	2.8	22
40	A multi-trait systems approach reveals a response cascade to bleaching in corals. <i>BMC Biology</i> , 2017, 15, 117.	3.8	45
41	A microfluidics-based in situ chemotaxis assay to study the behaviour of aquatic microbial communities. <i>Nature Microbiology</i> , 2017, 2, 1344-1349.	13.3	60
42	Subcellular tracking reveals the location of dimethylsulfoniopropionate in microalgae and visualises its uptake by marine bacteria. <i>ELife</i> , 2017, 6, .	6.0	74
43	Genetic markers for antioxidant capacity in a reef-building coral. <i>Science Advances</i> , 2016, 2, e1500842.	10.3	69
44	Isolation of an antimicrobial compound produced by bacteria associated with reef-building corals. <i>PeerJ</i> , 2016, 4, e2275.	2.0	122
45	Validation of picogram- and femtogram-input DNA libraries for microscale metagenomics. <i>PeerJ</i> , 2016, 4, e2486.	2.0	64
46	The coral core microbiome identifies rare bacterial taxa as ubiquitous endosymbionts. <i>ISME Journal</i> , 2015, 9, 2261-2274.	9.8	548
47	Host Coenzyme Q Redox State Is an Early Biomarker of Thermal Stress in the Coral <i>Acropora millepora</i> . <i>PLoS ONE</i> , 2015, 10, e0139290.	2.5	25
48	A bacterial pathogen uses dimethylsulfoniopropionate as a cue to target heat-stressed corals. <i>ISME Journal</i> , 2014, 8, 999-1007.	9.8	180
49	Direct measurement of dimethylsulfoniopropionate (DMSP) in reef-building corals using quantitative nuclear magnetic resonance (qNMR) spectroscopy. <i>Journal of Experimental Marine Biology and Ecology</i> , 2013, 443, 85-89.	1.5	37
50	DMSP biosynthesis by an animal and its role in coral thermal stress response. <i>Nature</i> , 2013, 502, 677-680.	27.8	258
51	Nutrient cycling in early coral life stages: <i>Pocillopora damicornis</i> larvae provide their algal symbiont (<i>Symbiodinium</i>) with nitrogen acquired from bacterial associates. <i>Ecology and Evolution</i> , 2013, 3, 2393-2400.	1.9	94
52	Allorecognition maturation in the broadcast-spawning coral <i>Acropora millepora</i> . <i>Coral Reefs</i> , 2012, 31, 1019-1028.	2.2	39
53	Coral-Bacterial Communities before and after a Coral Mass Spawning Event on Ningaloo Reef. <i>PLoS ONE</i> , 2012, 7, e36920.	2.5	68
54	Do the organic sulfur compounds DMSP and DMS drive coral microbial associations?. <i>Trends in Microbiology</i> , 2010, 18, 101-108.	7.7	203

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55	Coral-Associated Bacteria and Their Role in the Biogeochemical Cycling of Sulfur. <i>Applied and Environmental Microbiology</i> , 2009, 75, 3492-3501.	3.1	395
56	Gear-based fisheries management as a potential adaptive response to climate change and coral mortality. <i>Journal of Applied Ecology</i> , 2009, 46, 724-732.	4.0	119
57	Comparison of Outcomes of Permanently Closed and Periodically Harvested Coral Reef Reserves. <i>Conservation Biology</i> , 2009, 23, 1475-1484.	4.7	56