

Deron Burkepile

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

15,198
citations

53794

45
h-index

30922

102
g-index

148
all docs

148
docs citations

148
times ranked

20824
citing authors

#	ARTICLE	IF	CITATIONS
1	Predictive functional profiling of microbial communities using 16S rRNA marker gene sequences. <i>Nature Biotechnology</i> , 2013, 31, 814-821.	17.5	8,049
2	Opposing Effects of Native and Exotic Herbivores on Plant Invasions. <i>Science</i> , 2006, 311, 1459-1461.	12.6	515
3	Chronic nutrient enrichment increases prevalence and severity of coral disease and bleaching. <i>Global Change Biology</i> , 2014, 20, 544-554.	9.5	421
4	Overfishing and nutrient pollution interact with temperature to disrupt coral reefs down to microbial scales. <i>Nature Communications</i> , 2016, 7, 11833.	12.8	417
5	HERBIVORE VS. NUTRIENT CONTROL OF MARINE PRIMARY PRODUCERS: CONTEXT-DEPENDENT EFFECTS. <i>Ecology</i> , 2006, 87, 3128-3139.	3.2	385
6	Herbivore species richness and feeding complementarity affect community structure and function on a coral reef. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16201-16206.	7.1	371
7	A global analysis of coral bleaching over the past two decades. <i>Nature Communications</i> , 2019, 10, 1264.	12.8	339
8	Mutualisms and Aquatic Community Structure: The Enemy of My Enemy Is My Friend. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2004, 35, 175-197.	8.3	167
9	Impact of Herbivore Identity on Algal Succession and Coral Growth on a Caribbean Reef. <i>PLoS ONE</i> , 2010, 5, e8963.	2.5	153
10	Temperature-induced mismatches between consumption and metabolism reduce consumer fitness. <i>Ecology</i> , 2012, 93, 2483-2489.	3.2	140
11	Change in dominance determines herbivore effects on plant biodiversity. <i>Nature Ecology and Evolution</i> , 2018, 2, 1925-1932.	7.8	140
12	CHEMICALLY MEDIATED COMPETITION BETWEEN MICROBES AND ANIMALS: MICROBES AS CONSUMERS IN FOOD WEBS. <i>Ecology</i> , 2006, 87, 2821-2831.	3.2	138
13	Local conditions magnify coral loss after marine heatwaves. <i>Science</i> , 2021, 372, 977-980.	12.6	132
14	Context-dependent effects of nutrient loading on the coral-algal mutualism. <i>Ecology</i> , 2014, 95, 1995-2005.	3.2	119
15	Macroalgae Decrease Growth and Alter Microbial Community Structure of the Reef-Building Coral, <i>Porites astreoides</i> . <i>PLoS ONE</i> , 2012, 7, e44246.	2.5	113
16	Nitrogen pollution interacts with heat stress to increase coral bleaching across the seascape. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5351-5357.	7.1	112
17	Reefscapes of fear: predation risk and reef heterogeneity interact to shape herbivore foraging behaviour. <i>Journal of Animal Ecology</i> , 2016, 85, 146-156.	2.8	108
18	Nutrient supply from fishes facilitates macroalgae and suppresses corals in a Caribbean coral reef ecosystem. <i>Scientific Reports</i> , 2013, 3, 1493.	3.3	106

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19	Variable effects of temperature on insect herbivory. <i>PeerJ</i> , 2014, 2, e376.	2.0	104
20	A Vicious Circle? Altered Carbon and Nutrient Cycling May Explain the Low Resilience of Caribbean Coral Reefs. <i>BioScience</i> , 2016, 66, 470-476.	4.9	90
21	Fish-derived nutrient hotspots shape coral reef benthic communities. <i>Ecological Applications</i> , 2015, 25, 2142-2152.	3.8	88
22	Nutrient loading alters the performance of key nutrient exchange mutualisms. <i>Ecology Letters</i> , 2016, 19, 20-28.	6.4	84
23	Harnessing ecological processes to facilitate coral restoration. <i>Frontiers in Ecology and the Environment</i> , 2018, 16, 239-247.	4.0	84
24	Animal pee in the sea: consumer-mediated nutrient dynamics in the world's changing oceans. <i>Global Change Biology</i> , 2017, 23, 2166-2178.	9.5	82
25	Phylogenetic, genomic, and biogeographic characterization of a novel and ubiquitous marine invertebrate-associated Rickettsiales parasite, <i>Candidatus Aquarickettsia rohweri</i> , gen. nov., sp. nov. <i>ISME Journal</i> , 2019, 13, 2938-2953.	9.8	82
26	Feeding complementarity versus redundancy among herbivorous fishes on a Caribbean reef. <i>Coral Reefs</i> , 2011, 30, 351-362.	2.2	81
27	Resource partitioning along multiple niche axes drives functional diversity in parrotfishes on Caribbean coral reefs. <i>Oecologia</i> , 2015, 179, 1173-1185.	2.0	81
28	Bacterial predation in a marine host-associated microbiome. <i>ISME Journal</i> , 2016, 10, 1540-1544.	9.8	77
29	Synthesizing the effects of large, wild herbivore exclusion on ecosystem function. <i>Functional Ecology</i> , 2019, 33, 1597-1610.	3.6	77
30	Increased temperature alters feeding behavior of a generalist herbivore. <i>Oikos</i> , 2013, 122, 1669-1678.	2.7	76
31	Nitrogen Identity Drives Differential Impacts of Nutrients on Coral Bleaching and Mortality. <i>Ecosystems</i> , 2020, 23, 798-811.	3.4	72
32	Habitat selection by large herbivores in a southern African savanna: the relative roles of bottom-up and top-down forces. <i>Ecosphere</i> , 2013, 4, 1-19.	2.2	70
33	Plant community response to loss of large herbivores differs between North American and South African savanna grasslands. <i>Ecology</i> , 2014, 95, 808-816.	3.2	70
34	Effects of predation and nutrient enrichment on the success and microbiome of a foundational coral. <i>Ecology</i> , 2017, 98, 830-839.	3.2	68
35	Corals and Their Microbiomes Are Differentially Affected by Exposure to Elevated Nutrients and a Natural Thermal Anomaly. <i>Frontiers in Marine Science</i> , 0, 5, .	2.5	68
36	Comparative analysis of foraging behavior and bite mechanics reveals complex functional diversity among Caribbean parrotfishes. <i>Marine Ecology - Progress Series</i> , 2018, 597, 207-220.	1.9	67

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37	Multiple stressors interact primarily through antagonism to drive changes in the coral microbiome. <i>Scientific Reports</i> , 2019, 9, 6834.	3.3	64
38	A test of two mechanisms proposed to optimize grassland aboveground primary productivity in response to grazing. <i>Journal of Plant Ecology</i> , 2012, 5, 357-365.	2.3	59
39	Rapid recovery of ecosystem function following extreme drought in a South African savanna grassland. <i>Ecology</i> , 2020, 101, e02983.	3.2	55
40	Predator release of the gastropod <i>Cyphoma gibbosum</i> increases predation on gorgonian corals. <i>Oecologia</i> , 2007, 154, 167-173.	2.0	54
41	Differing nutritional constraints of consumers across ecosystems. <i>Oecologia</i> , 2014, 174, 1367-1376.	2.0	53
42	Corallivory in the Anthropocene: Interactive Effects of Anthropogenic Stressors and Corallivory on Coral Reefs. <i>Frontiers in Marine Science</i> , 2019, 5, .	2.5	52
43	Controls of Aboveground Net Primary Production in Mesic Savanna Grasslands: An Inter-Hemispheric Comparison. <i>Ecosystems</i> , 2009, 12, 982-995.	3.4	51
44	Local management actions can increase coral resilience to thermally-induced bleaching. <i>Nature Ecology and Evolution</i> , 2018, 2, 1075-1079.	7.8	51
45	Overfishing and the ecological impacts of extirpating large parrotfish from Caribbean coral reefs. <i>Ecological Monographs</i> , 2020, 90, e01403.	5.4	51
46	Susceptibility of Five Nontarget Organisms to Aqueous Diazinon Exposure. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2000, 64, 114-121.	2.7	50
47	Stream mosses as chemically defended refugia for freshwater macroinvertebrates. <i>Oikos</i> , 2007, 116, 302-312.	2.7	50
48	Landscape-scale patterns of nutrient enrichment in a coral reef ecosystem: implications for coral to algae phase shifts. <i>Ecological Applications</i> , 2021, 31, e2227.	3.8	49
49	Thermal stress reveals a genotype-specific tradeoff between growth and tissue loss in restored <i>Acropora cervicornis</i> . <i>Marine Ecology - Progress Series</i> , 2017, 572, 129-139.	1.9	47
50	Context-dependent corallivory by parrotfishes in a Caribbean reef ecosystem. <i>Coral Reefs</i> , 2012, 31, 111-120.	2.2	45
51	Responses to fire differ between South African and North American grassland communities. <i>Journal of Vegetation Science</i> , 2014, 25, 793-804.	2.2	44
52	Coral epigenetic responses to nutrient stress: Histone H2A.X phosphorylation dynamics and DNA methylation in the staghorn coral <i>Acropora cervicornis</i> . <i>Ecology and Evolution</i> , 2018, 8, 12193-12207.	1.9	44
53	Sediment associated with algal turfs inhibits the settlement of two endangered coral species. <i>Marine Pollution Bulletin</i> , 2019, 144, 189-195.	5.0	44
54	Comparing aquatic and terrestrial grazing ecosystems: is the grass really greener?. <i>Oikos</i> , 2013, 122, 306-312.	2.7	43

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55	Recent advances in plant-herbivore interactions. <i>F1000Research</i> , 2017, 6, 119.	1.6	42
56	Phylogenetic isolation increases plant success despite increasing susceptibility to generalist herbivores. <i>Diversity and Distributions</i> , 2012, 18, 1-9.	4.1	39
57	Responses of plant phenology, growth, defense, and reproduction to interactive effects of warming and insect herbivory. <i>Ecology</i> , 2017, 98, 1817-1828.	3.2	34
58	Coral Microbiomes Demonstrate Flexibility and Resilience Through a Reduction in Community Diversity Following a Thermal Stress Event. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	34
59	Unprecedented evidence for high viral abundance and lytic activity in coral reef waters of the South Pacific Ocean. <i>Frontiers in Microbiology</i> , 2014, 5, 493.	3.5	32
60	Fire frequency drives habitat selection by a diverse herbivore guild impacting top-down control of plant communities in an African savanna. <i>Oikos</i> , 2016, 125, 1636-1646.	2.7	32
61	Loss of a large grazer impacts savanna grassland plant communities similarly in North America and South Africa. <i>Oecologia</i> , 2014, 175, 293-303.	2.0	31
62	Predation Risk, Resource Quality, and Reef Structural Complexity Shape Territoriality in a Coral Reef Herbivore. <i>PLoS ONE</i> , 2015, 10, e0118764.	2.5	31
63	Near-term impacts of coral restoration on target species, coral reef community structure, and ecological processes. <i>Restoration Ecology</i> , 2019, 27, 1166-1176.	2.9	30
64	Feeding behavior in Caribbean surgeonfishes varies across fish size, algal abundance, and habitat characteristics. <i>Marine Ecology</i> , 2019, 40, e12561.	1.1	29
65	Identity of coral reef herbivores drives variation in ecological processes over multiple spatial scales. <i>Ecological Applications</i> , 2019, 29, e01893.	3.8	28
66	Density Dependence Drives Habitat Production and Survivorship of <i>Acropora cervicornis</i> Used for Restoration on a Caribbean Coral Reef. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	27
67	Herbivore size matters for productivity-richness relationships in African savannas. <i>Journal of Ecology</i> , 2017, 105, 674-686.	4.0	27
68	Parrotfish predation drives distinct microbial communities in reef-building corals. <i>Animal Microbiome</i> , 2020, 2, 5.	3.8	27
69	Quantifying Differences Between Native and Introduced Species. <i>Trends in Ecology and Evolution</i> , 2016, 31, 372-381.	8.7	26
70	Size-dependent mortality of corals during marine heatwave erodes recovery capacity of a coral reef. <i>Global Change Biology</i> , 2022, 28, 1342-1358.	9.5	26
71	Few Herbivore Species Consume Dominant Macroalgae on a Caribbean Coral Reef. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	25
72	Nutrient limitation, bioenergetics and stoichiometry: A new model to predict elemental fluxes mediated by fishes. <i>Functional Ecology</i> , 2020, 34, 1857-1869.	3.6	25

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73	Interactive effects of herbivory and substrate orientation on algal community dynamics on a coral reef. <i>Marine Biology</i> , 2018, 165, 156.	1.5	24
74	Shared Drivers but Divergent Ecological Responses: Insights from Long-Term Experiments in Mesic Savanna Grasslands. <i>BioScience</i> , 2016, 66, 666-682.	4.9	20
75	Predator identity and time of day interact to shape the risk-reward trade-off for herbivorous coral reef fishes. <i>Oecologia</i> , 2017, 183, 763-773.	2.0	20
76	Different nitrogen sources speed recovery from corallivory and uniquely alter the microbiome of a reef-building coral. <i>PeerJ</i> , 2019, 7, e8056.	2.0	20
77	Fishing, pollution, climate change, and the long-term decline of coral reefs off Havana, Cuba. <i>Bulletin of Marine Science</i> , 2017, , .	0.8	18
78	Climate and fishing drive regime shifts in consumer-mediated nutrient cycling in kelp forests. <i>Global Change Biology</i> , 2019, 25, 3179-3192.	9.5	18
79	Seasonal regulation of herbivory and nutrient effects on macroalgal recruitment and succession in a Florida coral reef. <i>PeerJ</i> , 2016, 4, e2643.	2.0	18
80	Biological trade-offs underpin coral reef ecosystem functioning. <i>Nature Ecology and Evolution</i> , 2022, 6, 701-708.	7.8	18
81	Surgeonfish feces increase microbial opportunism in reef-building corals. <i>Marine Ecology - Progress Series</i> , 2019, 631, 81-97.	1.9	17
82	The importance of individual and species-level traits for trophic niches among herbivorous coral reef fishes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170307.	2.6	16
83	Algal nitrogen and phosphorus content drive inter- and intraspecific differences in herbivore grazing on a Caribbean reef. <i>Journal of Experimental Marine Biology and Ecology</i> , 2017, 497, 164-171.	1.5	16
84	A comparison of diver vs. acoustic methodologies for surveying fishes in a shallow water coral reef ecosystem. <i>Fisheries Research</i> , 2017, 189, 62-66.	1.7	15
85	Species-specific patterns in corallivory and spongivory among Caribbean parrotfishes. <i>Coral Reefs</i> , 2019, 38, 417-423.	2.2	15
86	Macroborer presence on corals increases with nutrient input and promotes parrotfish bioerosion. <i>Coral Reefs</i> , 2020, 39, 409-418.	2.2	15
87	Nutrient Pollution and Predation Differentially Affect Innate Immune Pathways in the Coral <i>Porites porites</i> . <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	13
88	The role of predators in coral disease dynamics. <i>Coral Reefs</i> , 2022, 41, 405-422.	2.2	13
89	Intestinal microbes: an axis of functional diversity among large marine consumers. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20192367.	2.6	12
90	Thermal Stress Interacts With Surgeonfish Feces to Increase Coral Susceptibility to Dysbiosis and Reduce Tissue Regeneration. <i>Frontiers in Microbiology</i> , 2021, 12, 620458.	3.5	12

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91	A View From Both Ends: Shifts in Herbivore Assemblages Impact Top-Down and Bottom-Up Processes on Coral Reefs. <i>Ecosystems</i> , 2021, 24, 1702-1715.	3.4	12
92	Response to Comment on "Opposing Effects of Native and Exotic Herbivores on Plant Invasions". <i>Science</i> , 2006, 313, 298b-298b.	12.6	10
93	Newly dominant benthic invertebrates reshape competitive networks on contemporary Caribbean reefs. <i>Coral Reefs</i> , 2019, 38, 1317-1328.	2.2	10
94	Phylogenetic conservatism drives nutrient dynamics of coral reef fishes. <i>Nature Communications</i> , 2021, 12, 5432.	12.8	10
95	Chronic low-level nutrient enrichment benefits coral thermal performance in a fore reef habitat. <i>Coral Reefs</i> , 2021, 40, 1637-1655.	2.2	9
96	Insect herbivores increase mortality and reduce tree seedling growth of some species in temperate forest canopy gaps. <i>PeerJ</i> , 2017, 5, e3102.	2.0	9
97	The Long Arm of Species Loss: How Will Defaunation Disrupt Ecosystems Down to the Microbial Scale?. <i>BioScience</i> , 2019, 69, 443-454.	4.9	8
98	Shared Insights across the Ecology of Coral Reefs and African Savannas: Are Parrotfish Wet Wildebeest?. <i>BioScience</i> , 2020, 70, 647-658.	4.9	8
99	Estimates of fish and coral larvae as nutrient subsidies to coral reef ecosystems. <i>Ecosphere</i> , 2018, 9, e02216.	2.2	6
100	Functional Variation Among Parrotfishes: are they Complementary or Redundant?. , 2018, , 134-160.		5
101	Seasonal recruitment and survival strategies of <i>Palisada cervicornis</i> comb. nov. (Ceramiales, Thrauxiales). <i>Journal of Phycology</i> , 2014, 50, 103-114.	2.3	4
102	Nitrate enrichment has lineage specific effects on <i>Pocillopora acuta</i> adults, but no transgenerational effects in planulae. <i>Coral Reefs</i> , 2022, 41, 303-317.	2.2	3
103	Groups of roving midnight parrotfish (<i>Scarus coelestinus</i>) prey on sergeant major damselfish (<i>Abudefduf saxatilis</i>) nests. <i>Marine Biodiversity</i> , 2017, 47, 11-12.	1.0	2
104	Ecology: E-rat-ication to restore reefs. <i>Current Biology</i> , 2021, 31, R786-R788.	3.9	1
105	Complex interactions with nutrients and sediment alter the effects of predation on a reef-building coral. <i>Marine Ecology</i> , 2021, 42, e12670.	1.1	1
106	Corallivory varies with water depth to influence the growth of <i>Acropora hyacinthus</i> , a reef-forming coral. <i>Ecosphere</i> , 2021, 12, e03623.	2.2	1
107	A response to Doropoulos and Babcock. <i>Frontiers in Ecology and the Environment</i> , 2018, 16, 559-560.	4.0	0
108	Why do certain species dominate? What we can learn from a rare case of <i>Microdictyon</i> dominance on a Caribbean reef. <i>Marine Ecology</i> , 2020, 41, e12613.	1.1	0

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109	Differential herbivore occupancy of fire-manipulated savannas in the Satara region of the Kruger National Park, South Africa. Koedoe, 2020, 62, .	0.9	0