

# Deron Burkepile

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2598998/publications.pdf>

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  | The role of predators in coral disease dynamics. <i>Coral Reefs</i> , 2022, 41, 405-422.   | 2.2  | 13        |
| 2  | 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         |
| 3  | Biological trade-offs underpin coral reef ecosystem functioning. <i>Nature Ecology and Evolution</i> , 2022, 6, 701-708.   | 7.8  | 18        |
| 4  | 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        |
| 5  | 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        |
| 6  | 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        |
| 7  | 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        |
| 8  | Local conditions magnify coral loss after marine heatwaves. <i>Science</i> , 2021, 372, 977-980.   | 12.6 | 132       |
| 9  | 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         |
| 10 | Ecology: E-rat-ication to restore reefs. <i>Current Biology</i> , 2021, 31, R786-R788.   | 3.9  | 1         |
| 11 | 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         |
| 12 | 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         |
| 13 | Phylogenetic conservatism drives nutrient dynamics of coral reef fishes. <i>Nature Communications</i> , 2021, 12, 5432.  | 12.8 | 10        |
| 14 | Nitrogen Identity Drives Differential Impacts of Nutrients on Coral Bleaching and Mortality. <i>Ecosystems</i> , 2020, 23, 798-811.  | 3.4  | 72        |
| 15 | Overfishing and the ecological impacts of extirpating large parrotfish from Caribbean coral reefs. <i>Ecological Monographs</i> , 2020, 90, e01403.  | 5.4  | 51        |
| 16 | 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        |
| 17 | Few Herbivore Species Consume Dominant Macroalgae on a Caribbean Coral Reef. <i>Frontiers in Marine Science</i> , 2020, 7, .   | 2.5  | 25        |
| 18 | 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        |

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|----|--|-----|-----------|
| 19 | 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        |
| 20 | 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         |
| 21 | 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        |
| 22 | 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       |
| 23 | Parrotfish predation drives distinct microbial communities in reef-building corals. <i>Animal Microbiome</i> , 2020, 2, 5.   | 3.8 | 27        |
| 24 | Macroborer presence on corals increases with nutrient input and promotes parrotfish bioerosion. <i>Coral Reefs</i> , 2020, 39, 409-418.  | 2.2 | 15        |
| 25 | Rapid recovery of ecosystem function following extreme drought in a South African savanna grassland. <i>Ecology</i> , 2020, 101, e02983.   | 3.2 | 55        |
| 26 | 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         |
| 27 | Differential herbivore occupancy of fire-manipulated savannas in the Satara region of the Kruger National Park, South Africa. <i>Koedoe</i> , 2020, 62, .  | 0.9 | 0         |
| 28 | 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        |
| 29 | Feeding behavior in Caribbean surgeonfishes varies across fish size, algal abundance, and habitat characteristics. <i>Marine Ecology</i> , 2019, 40, e12561.   | 1.1 | 29        |
| 30 | 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        |
| 31 | 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         |
| 32 | Newly dominant benthic invertebrates reshape competitive networks on contemporary Caribbean reefs. <i>Coral Reefs</i> , 2019, 38, 1317-1328.   | 2.2 | 10        |
| 33 | 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        |
| 34 | 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        |
| 35 | Synthesizing the effects of large, wild herbivore exclusion on ecosystem function. <i>Functional Ecology</i> , 2019, 33, 1597-1610.  | 3.6 | 77        |
| 36 | Species-specific patterns in corallivory and spongivory among Caribbean parrotfishes. <i>Coral Reefs</i> , 2019, 38, 417-423.  | 2.2 | 15        |

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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 | Identity of coral reef herbivores drives variation in ecological processes over multiple spatial scales. <i>Ecological Applications</i> , 2019, 29, e01893.  | 3.8  | 28        |
| 39 | A global analysis of coral bleaching over the past two decades. <i>Nature Communications</i> , 2019, 10, 1264.   | 12.8 | 339       |
| 40 | 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        |
| 41 | Surgeonfish feces increase microbial opportunism in reef-building corals. <i>Marine Ecology - Progress Series</i> , 2019, 631, 81-97.  | 1.9  | 17        |
| 42 | 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        |
| 43 | Harnessing ecological processes to facilitate coral restoration. <i>Frontiers in Ecology and the Environment</i> , 2018, 16, 239-247.  | 4.0  | 84        |
| 44 | 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        |
| 45 | A response to Doropoulos and Babcock. <i>Frontiers in Ecology and the Environment</i> , 2018, 16, 559-560.   | 4.0  | 0         |
| 46 | 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        |
| 47 | Change in dominance determines herbivore effects on plant biodiversity. <i>Nature Ecology and Evolution</i> , 2018, 2, 1925-1932.  | 7.8  | 140       |
| 48 | Estimates of fish and coral larvae as nutrient subsidies to coral reef ecosystems. <i>Ecosphere</i> , 2018, 9, e02216.   | 2.2  | 6         |
| 49 | Local management actions can increase coral resilience to thermally-induced bleaching. <i>Nature Ecology and Evolution</i> , 2018, 2, 1075-1079.   | 7.8  | 51        |
| 50 | Functional Variation Among Parrotfishes: are they Complementary or Redundant?. , 2018, , 134-160.  |      | 5         |
| 51 | 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        |
| 52 | 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         |
| 53 | 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        |
| 54 | 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        |

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|----|--|------|-----------|
| 55 | 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        |
| 56 | 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        |
| 57 | 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        |
| 58 | 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        |
| 59 | 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        |
| 60 | Seasonal recruitment and survival strategies of <i>Palisada cervicornis</i> comb. nov. (Ceramiales, Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5  | 2.3  | 4         |
| 61 | Herbivore size matters for productivity-richness relationships in African savannas. <i>Journal of Ecology</i> , 2017, 105, 674-686.  | 4.0  | 27        |
| 62 | 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        |
| 63 | Recent advances in plant-herbivore interactions. <i>Frontiers in Ecology and the Environment</i> , 2017, 6, 119.   | 1.6  | 42        |
| 64 | 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        |
| 65 | 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         |
| 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 | 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        |
| 68 | Nutrient loading alters the performance of key nutrient exchange mutualisms. <i>Ecology Letters</i> , 2016, 19, 20-28.   | 6.4  | 84        |
| 69 | 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       |
| 70 | 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        |
| 71 | 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       |
| 72 | 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        |

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|----|--|------|-----------|
| 73 | Quantifying Differences Between Native and Introduced Species. <i>Trends in Ecology and Evolution</i> , 2016, 31, 372-381.   | 8.7  | 26        |
| 74 | Bacterial predation in a marine host-associated microbiome. <i>ISME Journal</i> , 2016, 10, 1540-1544.   | 9.8  | 77        |
| 75 | 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        |
| 76 | Fish-derived nutrient hotspots shape coral reef benthic communities. <i>Ecological Applications</i> , 2015, 25, 2142-2152.   | 3.8  | 88        |
| 77 | 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        |
| 78 | 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        |
| 79 | 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        |
| 80 | 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        |
| 81 | 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        |
| 82 | Context-dependent effects of nutrient loading on the coral-algal mutualism. <i>Ecology</i> , 2014, 95, 1995-2005.  | 3.2  | 119       |
| 83 | 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        |
| 84 | Chronic nutrient enrichment increases prevalence and severity of coral disease and bleaching. <i>Global Change Biology</i> , 2014, 20, 544-554.                      | 9.5  | 421       |
| 85 | Differing nutritional constraints of consumers across ecosystems. <i>Oecologia</i> , 2014, 174, 1367-1376.   | 2.0  | 53        |
| 86 | Variable effects of temperature on insect herbivory. <i>PeerJ</i> , 2014, 2, e376.   | 2.0  | 104       |
| 87 | Predictive functional profiling of microbial communities using 16S rRNA marker gene sequences. <i>Nature Biotechnology</i> , 2013, 31, 814-821.                      | 17.5 | 8,049     |
| 88 | Comparing aquatic and terrestrial grazing ecosystems: is the grass really greener?. <i>Oikos</i> , 2013, 122, 306-312.   | 2.7  | 43        |
| 89 | Increased temperature alters feeding behavior of a generalist herbivore. <i>Oikos</i> , 2013, 122, 1669-1678.  | 2.7  | 76        |
| 90 | 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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|-----|--|------|-----------|
| 91  | 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        |
| 92  | Temperature-induced mismatches between consumption and metabolism reduce consumer fitness. <i>Ecology</i> , 2012, 93, 2483-2489.   | 3.2  | 140       |
| 93  | 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        |
| 94  | 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       |
| 95  | Phylogenetic isolation increases plant success despite increasing susceptibility to generalist herbivores. <i>Diversity and Distributions</i> , 2012, 18, 1-9.   | 4.1  | 39        |
| 96  | Context-dependent corallivory by parrotfishes in a Caribbean reef ecosystem. <i>Coral Reefs</i> , 2012, 31, 111-120.   | 2.2  | 45        |
| 97  | Feeding complementarity versus redundancy among herbivorous fishes on a Caribbean reef. <i>Coral Reefs</i> , 2011, 30, 351-362.  | 2.2  | 81        |
| 98  | Impact of Herbivore Identity on Algal Succession and Coral Growth on a Caribbean Reef. <i>PLoS ONE</i> , 2010, 5, e8963.   | 2.5  | 153       |
| 99  | Controls of Aboveground Net Primary Production in Mesic Savanna Grasslands: An Inter-Hemispheric Comparison. <i>Ecosystems</i> , 2009, 12, 982-995.  | 3.4  | 51        |
| 100 | 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       |
| 101 | Stream mosses as chemically-defended refugia for freshwater macroinvertebrates. <i>Oikos</i> , 2007, 116, 302-312.   | 2.7  | 50        |
| 102 | Predator release of the gastropod <i>Cyphoma gibbosum</i> increases predation on gorgonian corals. <i>Oecologia</i> , 2007, 154, 167-173.  | 2.0  | 54        |
| 103 | HERBIVORE VS. NUTRIENT CONTROL OF MARINE PRIMARY PRODUCERS: CONTEXT-DEPENDENT EFFECTS. <i>Ecology</i> , 2006, 87, 3128-3139.   | 3.2  | 385       |
| 104 | Opposing Effects of Native and Exotic Herbivores on Plant Invasions. <i>Science</i> , 2006, 311, 1459-1461.  | 12.6 | 515       |
| 105 | Response to Comment on "Opposing Effects of Native and Exotic Herbivores on Plant Invasions". <i>Science</i> , 2006, 313, 298b-298b.   | 12.6 | 10        |
| 106 | CHEMICALLY MEDIATED COMPETITION BETWEEN MICROBES AND ANIMALS: MICROBES AS CONSUMERS IN FOOD WEBS. <i>Ecology</i> , 2006, 87, 2821-2831.  | 3.2  | 138       |
| 107 | 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       |
| 108 | Susceptibility of Five Nontarget Organisms to Aqueous Diazinon Exposure. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2000, 64, 114-121.  | 2.7  | 50        |

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|-----|--|-----|-----------|
| 109 | 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        |