

Mark J A Vermeij

List of Publications by Year in descending order

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106
papers

6,057
citations

76196

40
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82410

72
g-index

123
all docs

123
docs citations

123
times ranked

5946
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Composite Substrates Reveal Inorganic Material Cues for Coral Larval Settlement. ACS Sustainable Chemistry and Engineering, 2022, 10, 3960-3971. | 3.2 | 7 |
| 2 | Benthic assemblages are more predictable than fish assemblages at an island scale. Coral Reefs, 2022, 41, 1031-1043. | 0.9 | 3 |
| 3 | Nocturnal dissolved organic matter release by turf algae and its role in the microbialization of reefs. Functional Ecology, 2022, 36, 2104-2118. | 1.7 | 4 |
| 4 | Taxonomy of the Apicomplexan Symbionts of Coral, including Corallicolida ord. nov., Reassignment of the Genus <i>Gemmocystis</i> , and Description of New Species <i>Corallicola aquarius</i> gen. nov. sp. nov. and <i>Anthozoaphila gnarlus</i> gen. nov. sp. nov.. Journal of Eukaryotic Microbiology, 2021, 68, e12852. | 0.8 | 9 |
| 5 | Three-Dimensional Molecular Cartography of the Caribbean Reef-Building Coral <i>Orbicella faveolata</i> . Frontiers in Marine Science, 2021, 8, . | 1.2 | 11 |
| 6 | Implications of 2D versus 3D surveys to measure the abundance and composition of benthic coral reef communities. Coral Reefs, 2021, 40, 1137-1153. | 0.9 | 23 |
| 7 | Space-filling and benthic competition on coral reefs. PeerJ, 2021, 9, e11213. | 0.9 | 7 |
| 8 | Assisted gene flow using cryopreserved sperm in critically endangered coral. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 38 |
| 9 | A multiomic analysis of in situ coral-turf algal interactions. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13588-13595. | 3.3 | 48 |
| 10 | Historical changes (1905-present) in catch size and composition reflect altering fisheries practices on a small Caribbean island. PLoS ONE, 2019, 14, e0217589. | 1.1 | 5 |
| 11 | Validation of a universal set of primers to study animal-associated microeukaryotic communities. Environmental Microbiology, 2019, 21, 3855-3861. | 1.8 | 34 |
| 12 | Light-regulated collective contractility in a multicellular choanoflagellate. Science, 2019, 366, 326-334. | 6.0 | 101 |
| 13 | Bonaire and Curaçao. Coral Reefs of the World, 2019, , 149-162. | 0.3 | 7 |
| 14 | The coral settlement box: A simple device to produce coral stock from brooded coral larvae entirely in situ. Ecological Engineering, 2019, 132, 115-119. | 1.6 | 10 |
| 15 | Diel population and functional synchrony of microbial communities on coral reefs. Nature Communications, 2019, 10, 1691. | 5.8 | 28 |
| 16 | A widespread coral-infecting apicomplexan with chlorophyll biosynthesis genes. Nature, 2019, 568, 103-107. | 13.7 | 102 |
| 17 | The rise of a native sun coral species on southern Caribbean coral reefs. Ecosphere, 2019, 10, e02942. | 1.0 | 12 |
| 18 | High Prevalence and Endemism of Trypanosomatids on a Small Caribbean Island. Journal of Eukaryotic Microbiology, 2019, 66, 600-607. | 0.8 | 10 |

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|----|---|-----|-----------|
| 19 | Acquisition of obligate mutualist symbionts during the larval stage is not beneficial for a coral host. <i>Molecular Ecology</i> , 2019, 28, 141-155. | 2.0 | 19 |
| 20 | Biophysical and physiological processes causing oxygen loss from coral reefs. <i>ELife</i> , 2019, 8, . | 2.8 | 19 |
| 21 | Corals in Healthy Populations Produce More Larvae Per Unit Cover. <i>Conservation Letters</i> , 2018, 11, e12410. | 2.8 | 30 |
| 22 | Host Differentiation and Compartmentalization of Microbial Communities in the Azooxanthellate Cupcorals <i>Tubastrea coccinea</i> and <i>Rhizopsammia goesi</i> in the Caribbean. <i>Frontiers in Marine Science</i> , 2018, 5, . | 1.2 | 25 |
| 23 | Ecological assessment of the marine ecosystems of Barbuda, West Indies: Using rapid scientific assessment to inform ocean zoning and fisheries management. <i>PLoS ONE</i> , 2018, 13, e0189355. | 1.1 | 6 |
| 24 | Large-scale invasion of western Atlantic mesophotic reefs by lionfish potentially undermines culling-based management. <i>Biological Invasions</i> , 2017, 19, 939-954. | 1.2 | 67 |
| 25 | Meta-mass shift chemical profiling of metabolomes from coral reefs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11685-11690. | 3.3 | 57 |
| 26 | Host-dependent variation in density of corallivorous snails (<i>Coralliophila</i> spp.) at Curaçao, southern Caribbean. <i>Marine Biodiversity</i> , 2017, 47, 91-99. | 0.3 | 12 |
| 27 | Costs and benefits of maternally inherited algal symbionts in coral larvae. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170852. | 1.2 | 23 |
| 28 | The reproductive biology and early life ecology of a common Caribbean brain coral, <i>Diploria labyrinthiformis</i> (Scleractinia: Faviinae). <i>Coral Reefs</i> , 2017, 36, 83-94. | 0.9 | 24 |
| 29 | New Seeding Approach Reduces Costs and Time to Outplant Sexually Propagated Corals for Reef Restoration. <i>Scientific Reports</i> , 2017, 7, 18076. | 1.6 | 80 |
| 30 | New coral reefs-based approaches for the model type selection problem: a novel method to predict a nation's future energy demand. <i>International Journal of Bio-Inspired Computation</i> , 2017, 10, 145. | 0.6 | 27 |
| 31 | Genetic and morphological variation in corallivorous snails (<i>Coralliophila</i> spp.) living on different host corals at Curaçao, southern Caribbean. <i>Contributions To Zoology</i> , 2017, 86, 111-S9. | 0.2 | 15 |
| 32 | Population structure of the hydrocoral <i>Millepora platyphylla</i> in habitats experiencing different flow regimes in Moorea, French Polynesia. <i>PLoS ONE</i> , 2017, 12, e0173513. | 1.1 | 17 |
| 33 | New Coral Reefs-based Approaches for the Model Type Selection Problem: A Novel Method to Predict a Nation's Future Energy Demand. <i>International Journal of Bio-Inspired Computation</i> , 2017, 10, 1. | 0.6 | 2 |
| 34 | Competitive interactions between corals and turf algae depend on coral colony form. <i>PeerJ</i> , 2016, 4, e1984. | 0.9 | 54 |
| 35 | Detection and Analysis of Antibiotic Resistance in Coliform Bacteria in Caribbean Coastal Water. <i>Open Forum Infectious Diseases</i> , 2016, 3, . | 0.4 | 0 |
| 36 | Metabolomics of reef benthic interactions reveals a bioactive lipid involved in coral defence. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160469. | 1.2 | 55 |

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|----|---|------|-----------|
| 37 | Nitrogen and phosphorus uptake rates of different species from a coral reef community after a nutrient pulse. <i>Scientific Reports</i> , 2016, 6, 28821. | 1.6 | 64 |
| 38 | Effect of light and nutrient availability on the release of dissolved organic carbon (DOC) by Caribbean turf algae. <i>Scientific Reports</i> , 2016, 6, 23248. | 1.6 | 42 |
| 39 | Four-year-old Caribbean <i>Acropora</i> colonies reared from field-collected gametes are sexually mature. <i>Bulletin of Marine Science</i> , 2016, 92, 263-264. | 0.4 | 41 |
| 40 | High prevalence of dermal parasites among coral reef fishes of Curaçao. <i>Marine Biodiversity</i> , 2016, 46, 67-74. | 0.3 | 8 |
| 41 | Lytic to temperate switching of viral communities. <i>Nature</i> , 2016, 531, 466-470. | 13.7 | 440 |
| 42 | A review of Computational Intelligence techniques in coral reef-related applications. <i>Ecological Informatics</i> , 2016, 32, 107-123. | 2.3 | 12 |
| 43 | Stable and sporadic symbiotic communities of coral and algal holobionts. <i>ISME Journal</i> , 2016, 10, 1157-1169. | 4.4 | 149 |
| 44 | Decadal comparison of a diminishing coral community: a study using demographics to advance inferences of community status. <i>PeerJ</i> , 2016, 4, e1643. | 0.9 | 11 |
| 45 | Deep down on a Caribbean reef: lower mesophotic depths harbor a specialized coral-endosymbiont community. <i>Scientific Reports</i> , 2015, 5, 7652. | 1.6 | 116 |
| 46 | Can we measure beauty? Computational evaluation of coral reef aesthetics. <i>PeerJ</i> , 2015, 3, e1390. | 0.9 | 31 |
| 47 | Restoration of critically endangered elkhorn coral (<i>Acropora palmata</i>) populations using larvae reared from wild-caught gametes. <i>Global Ecology and Conservation</i> , 2015, 4, 526-537. | 1.0 | 67 |
| 48 | Reproductive natural history and successful juvenile propagation of the threatened Caribbean Pillar Coral <i>Dendrogyra cylindrus</i> . <i>BMC Ecology</i> , 2015, 15, 9. | 3.0 | 19 |
| 49 | Mass spectral similarity for untargeted metabolomics data analysis of complex mixtures. <i>International Journal of Mass Spectrometry</i> , 2015, 377, 719-727. | 0.7 | 90 |
| 50 | Negative effects of gardening damselfish <i>Stegastes planifrons</i> on coral health depend on predator abundance. <i>Marine Ecology - Progress Series</i> , 2015, 528, 289-296. | 0.9 | 25 |
| 51 | Crude oil contamination interrupts settlement of coral larvae after direct exposure ends. <i>Marine Ecology - Progress Series</i> , 2015, 536, 163-173. | 0.9 | 19 |
| 52 | Biofouling of inlet pipes affects water quality in running seawater aquaria and compromises sponge cell proliferation. <i>PeerJ</i> , 2015, 3, e1430. | 0.9 | 14 |
| 53 | Natural Diet of Coral-Excavating Sponges Consists Mainly of Dissolved Organic Carbon (DOC). <i>PLoS ONE</i> , 2014, 9, e90152. | 1.1 | 93 |
| 54 | Local genomic adaptation of coral reef-associated microbiomes to gradients of natural variability and anthropogenic stressors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10227-10232. | 3.3 | 220 |

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|----|---|-----|-----------|
| 55 | Nitrogen fixation rates in algal turf communities of a degraded versus less degraded coral reef. <i>Coral Reefs</i> , 2014, 33, 1003-1015. | 0.9 | 21 |
| 56 | Effect of light availability on dissolved organic carbon release by Caribbean reef algae and corals. <i>Bulletin of Marine Science</i> , 2014, 90, 875-893. | 0.4 | 42 |
| 57 | Sequencing at sea: challenges and experiences in Ion Torrent PGM sequencing during the 2013 Southern Line Islands Research Expedition. <i>PeerJ</i> , 2014, 2, e520. | 0.9 | 19 |
| 58 | Large birth size does not reduce negative latent effects of harsh environments across life stages in two coral species. <i>Ecology</i> , 2013, 94, 1966-1976. | 1.5 | 33 |
| 59 | Sharing the slope: depth partitioning of agariciid corals and associated Symbiodinium across shallow and mesophotic habitats (2-60m) on a Caribbean reef. <i>BMC Evolutionary Biology</i> , 2013, 13, 205. | 3.2 | 94 |
| 60 | Survival and dispersal of turf algae and macroalgae consumed by herbivorous coral reef fishes. <i>Oecologia</i> , 2013, 171, 417-425. | 0.9 | 26 |
| 61 | Surviving in a Marine Desert: The Sponge Loop Retains Resources Within Coral Reefs. <i>Science</i> , 2013, 342, 108-110. | 6.0 | 656 |
| 62 | Janzen-Connell effects in a broadcast-spawning Caribbean coral: distance-dependent survival of larvae and settlers. <i>Ecology</i> , 2013, 94, 146-160. | 1.5 | 52 |
| 63 | Zooxanthellae presence acts as a settlement cue for aposymbiotic planulae of the Caribbean Coral <i>Montastraea faveolata</i> . <i>Caribbean Journal of Science</i> , 2013, 47, 31-36. | 0.2 | 2 |
| 64 | Comparison between Colony Morphology and Molecular Phylogeny in the Caribbean Scleractinian Coral Genus <i>Madracis</i> . <i>PLoS ONE</i> , 2013, 8, e71287. | 1.1 | 11 |
| 65 | Hurricane-Driven Patterns of Clonality in an Ecosystem Engineer: The Caribbean Coral <i>Montastraea annularis</i> . <i>PLoS ONE</i> , 2013, 8, e53283. | 1.1 | 59 |
| 66 | Fast Detection of Nutrient Limitation in Macroalgae and Seagrass with Nutrient-Induced Fluorescence. <i>PLoS ONE</i> , 2013, 8, e68834. | 1.1 | 22 |
| 67 | Effectiveness of lionfish removal efforts in the southern Caribbean. <i>Endangered Species Research</i> , 2013, 22, 175-182. | 1.2 | 64 |
| 68 | Biological oxygen demand optode analysis of coral reef-associated microbial communities exposed to algal exudates. <i>PeerJ</i> , 2013, 1, e107. | 0.9 | 49 |
| 69 | Black reefs: iron-induced phase shifts on coral reefs. <i>ISME Journal</i> , 2012, 6, 638-649. | 4.4 | 65 |
| 70 | Microbial to reef scale interactions between the reef-building coral <i>Montastraea annularis</i> and benthic algae. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 1655-1664. | 1.2 | 130 |
| 71 | Evolutionary Diversification of Banded Tube-Dwelling Anemones (Cnidaria; Ceriantharia; <i>Tj ETQq1</i> 1 0.784314 rgBT /Overlock 10 Tf 50 | 1.1 | 35 |
| 72 | Connectivity of Caribbean coral populations: complementary insights from empirical and modelled gene flow. <i>Molecular Ecology</i> , 2012, 21, 1143-1157. | 2.0 | 162 |

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|----|---|-----|-----------|
| 73 | Natural history of coral-algae competition across a gradient of human activity in the Line Islands. <i>Marine Ecology - Progress Series</i> , 2012, 460, 1-12. | 0.9 | 99 |
| 74 | Day time spawning of a Caribbean coral. <i>Coral Reefs</i> , 2011, 30, 1147-1147. | 0.9 | 4 |
| 75 | Juvenile Coral Abundance Has Decreased by More Than 50% in Only Three Decades on a Small Caribbean Island. <i>Diversity</i> , 2011, 3, 296-307. | 0.7 | 45 |
| 76 | Crustose coralline algae can suppress macroalgal growth and recruitment on Hawaiian coral reefs. <i>Marine Ecology - Progress Series</i> , 2011, 422, 1-7. | 0.9 | 63 |
| 77 | Release of eggs from tentacles in a Caribbean coral. <i>Coral Reefs</i> , 2010, 29, 411-411. | 0.9 | 9 |
| 78 | First observation of a nocturnal nudibranch feeding on Caribbean corals. <i>Coral Reefs</i> , 2010, 29, 1047-1047. | 0.9 | 2 |
| 79 | The effects of trophic interactions and spatial competition on algal community composition on Hawaiian coral reefs. <i>Marine Ecology</i> , 2010, 31, 291-299. | 0.4 | 25 |
| 80 | Coral Larvae Move toward Reef Sounds. <i>PLoS ONE</i> , 2010, 5, e10660. | 1.1 | 161 |
| 81 | The Effects of Nutrient Enrichment and Herbivore Abundance on the Ability of Turf Algae to Overgrow Coral in the Caribbean. <i>PLoS ONE</i> , 2010, 5, e14312. | 1.1 | 151 |
| 82 | A comparison between coral colonies of the genus <i>Madracis</i> and simulated forms. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 3555-3561. | 1.2 | 23 |
| 83 | Reef Fishes of Saba Bank, Netherlands Antilles: Assemblage Structure across a Gradient of Habitat Types. <i>PLoS ONE</i> , 2010, 5, e9207. | 1.1 | 20 |
| 84 | Survival and settlement success of coral planulae: independent and synergistic effects of macroalgae and microbes. <i>Oecologia</i> , 2009, 159, 325-336. | 0.9 | 125 |
| 85 | Release from native herbivores facilitates the persistence of invasive marine algae: a biogeographical comparison of the relative contribution of nutrients and herbivory to invasion success. <i>Biological Invasions</i> , 2009, 11, 1463-1474. | 1.2 | 44 |
| 86 | Nutrient enrichment promotes survival and dispersal of drifting fragments in an invasive tropical macroalga. <i>Coral Reefs</i> , 2009, 28, 429-435. | 0.9 | 15 |
| 87 | Floating corallites: a new ecophenotype in scleractinian corals. <i>Coral Reefs</i> , 2009, 28, 987-987. | 0.9 | 7 |
| 88 | New perspectives on ecological mechanisms affecting coral recruitment on reefs. <i>Smithsonian Contributions To the Marine Sciences</i> , 2009, , 437-457. | 1.0 | 278 |
| 89 | Island biogeography of Caribbean coral reef fish. <i>Global Ecology and Biogeography</i> , 2008, 17, 770-777. | 2.7 | 47 |
| 90 | DENSITY-DEPENDENT SETTLEMENT AND MORTALITY STRUCTURE THE EARLIEST LIFE PHASES OF A CORAL POPULATION. <i>Ecology</i> , 2008, 89, 1994-2004. | 1.5 | 191 |

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| 91 | Coral reef fish and benthic community structure of Bonaire and Curaçao, Netherlands Antilles. <i>Caribbean Journal of Science</i> , 2008, 44, 137-144. | 0.2 | 28 |
| 92 | Local habitat distribution determines the relative frequency and interbreeding potential for two Caribbean coral morphospecies. <i>Evolutionary Ecology</i> , 2007, 21, 27-47. | 0.5 | 15 |
| 93 | Effects of reproductive mode on habitat-related differences in the population structure of eight Caribbean coral species. <i>Marine Ecology - Progress Series</i> , 2007, 351, 91-102. | 0.9 | 23 |
| 94 | Early life-history dynamics of Caribbean coral species on artificial substratum: the importance of competition, growth and variation in life-history strategy. <i>Coral Reefs</i> , 2006, 25, 59-71. | 0.9 | 119 |
| 95 | Pelagic conditions affect larval behavior, survival, and settlement patterns in the Caribbean coral <i>Montastraea faveolata</i> . <i>Marine Ecology - Progress Series</i> , 2006, 310, 119-128. | 0.9 | 92 |
| 96 | A novel growth strategy allows <i>Tubastrea coccinea</i> to escape small-scale adverse conditions and start over again. <i>Coral Reefs</i> , 2005, 24, 442-442. | 0.9 | 19 |
| 97 | Morphogenesis of the branching reef coral <i>Madracis mirabilis</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 127-133. | 1.2 | 76 |
| 98 | Alleviating impacts of anthropogenic activities by traditional conservation measures: can a small reef reserve be sustainably managed?. <i>Biological Conservation</i> , 2005, 121, 243-255. | 1.9 | 23 |
| 99 | Substrate composition and adult distribution determine recruitment patterns in a Caribbean brooding coral. <i>Marine Ecology - Progress Series</i> , 2005, 295, 123-133. | 0.9 | 84 |
| 100 | The reproductive biology of closely related coral species: gametogenesis in <i>Madracis</i> from the southern Caribbean. <i>Coral Reefs</i> , 2004, 23, 206. | 0.9 | 35 |
| 101 | Deep formations (50-80 cm) of the solitary coral <i>Phacelocyanthus flos</i> on southern Caribbean reefs. <i>Coral Reefs</i> , 2003, 22, 107-108. | 0.9 | 1 |
| 102 | Simulation and analysis of flow patterns around the scleractinian coral <i>Madracis mirabilis</i> (Duchassaing and Michelotti). <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2003, 358, 1551-1557. | 1.8 | 37 |
| 103 | Variation in planulae release of closely related coral species. <i>Marine Ecology - Progress Series</i> , 2003, 247, 75-84. | 0.9 | 28 |
| 104 | Corals on the move: rambling of <i>Madracis pharensis</i> polyps early after settlement. <i>Coral Reefs</i> , 2002, 21, 262-263. | 0.9 | 6 |
| 105 | Patterns in Fluorescence over a Caribbean Reef Slope: the Coral Genus <i>Madracis</i> . <i>Photosynthetica</i> , 2002, 40, 423-429. | 0.9 | 21 |
| 106 | How are coral populations structured by light? Marine light regimes and the distribution of <i>Madracis</i> . <i>Marine Ecology - Progress Series</i> , 2002, 233, 105-116. | 0.9 | 88 |