

Adam C Martiny

List of Publications by Year in descending order

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109
papers

12,177
citations

38742

50
h-index

29157

104
g-index

120
all docs

120
docs citations

120
times ranked

12202
citing authors

#	ARTICLE	IF	CITATIONS
1	Present and future global distributions of the marine Cyanobacteria <i>Prochlorococcus</i> and <i>Synechococcus</i> . Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9824-9829.	7.1	1,097
2	Microbiomes in light of traits: A phylogenetic perspective. Science, 2015, 350, aac9323.	12.6	652
3	Phylogenetic conservatism of functional traits in microorganisms. ISME Journal, 2013, 7, 830-838.	9.8	526
4	Defining trait-based microbial strategies with consequences for soil carbon cycling under climate change. ISME Journal, 2020, 14, 1-9.	9.8	470
5	Patterns and Implications of Gene Gain and Loss in the Evolution of <i>Prochlorococcus</i> . PLoS Genetics, 2007, 3, e231.	3.5	469
6	Genomic Islands and the Ecology and Evolution of <i>Prochlorococcus</i> . Science, 2006, 311, 1768-1770.	12.6	437
7	Strong latitudinal patterns in the elemental ratios of marine plankton and organic matter. Nature Geoscience, 2013, 6, 279-283.	12.9	432
8	Sequencing genomes from single cells by polymerase cloning. Nature Biotechnology, 2006, 24, 680-686.	17.5	388
9	Global biogeography of microbial nitrogen-cycling traits in soil. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8033-8040.	7.1	365
10	Microbial abundance and composition influence litter decomposition response to environmental change. Ecology, 2013, 94, 714-725.	3.2	340
11	Phosphate acquisition genes in <i>Prochlorococcus</i> ecotypes: Evidence for genome-wide adaptation. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12552-12557.	7.1	289
12	Phylogenetic Distribution of Potential Cellulases in Bacteria. Applied and Environmental Microbiology, 2013, 79, 1545-1554.	3.1	267
13	Temporal dynamics of <i>Prochlorococcus</i> ecotypes in the Atlantic and Pacific oceans. ISME Journal, 2010, 4, 1252-1264.	9.8	221
14	Decomposition responses to climate depend on microbial community composition. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11994-11999.	7.1	214
15	Long-Term Succession of Structure and Diversity of a Biofilm Formed in a Model Drinking Water Distribution System. Applied and Environmental Microbiology, 2003, 69, 6899-6907.	3.1	199
16	Global distribution and diversity of marine <i>Verrucomicrobia</i> . ISME Journal, 2012, 6, 1499-1505.	9.8	196
17	Taxonomic resolution, ecotypes and the biogeography of <i>Prochlorococcus</i> . Environmental Microbiology, 2009, 11, 823-832.	3.8	188
18	Microdiversity of extracellular enzyme genes among sequenced prokaryotic genomes. ISME Journal, 2013, 7, 1187-1199.	9.8	188

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19	Convergent estimates of marine nitrogen fixation. <i>Nature</i> , 2019, 566, 205-211.	27.8	187
20	Characterization of <i>Prochlorococcus</i> clades from iron-depleted oceanic regions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16184-16189.	7.1	183
21	The Ocean as a Global Reservoir of Antibiotic Resistance Genes. <i>Applied and Environmental Microbiology</i> , 2015, 81, 7593-7599.	3.1	177
22	Widespread metabolic potential for nitrite and nitrate assimilation among <i>Prochlorococcus</i> ecotypes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 10787-10792.	7.1	174
23	A simple nutrient-dependence mechanism for predicting the stoichiometry of marine ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8199-8204.	7.1	170
24	Genomic Potential for Polysaccharide Deconstruction in Bacteria. <i>Applied and Environmental Microbiology</i> , 2015, 81, 1513-1519.	3.1	155
25	Occurrence of phosphate acquisition genes in <i>Prochlorococcus</i> cells from different ocean regions. <i>Environmental Microbiology</i> , 2009, 11, 1340-1347.	3.8	149
26	Identification of Bacteria in Biofilm and Bulk Water Samples from a Nonchlorinated Model Drinking Water Distribution System: Detection of a Large Nitrite-Oxidizing Population Associated with <i>Nitrospira</i> spp. <i>Applied and Environmental Microbiology</i> , 2005, 71, 8611-8617.	3.1	145
27	<i>Prochlorococcus</i> Ecotype Abundances in the North Atlantic Ocean As Revealed by an Improved Quantitative PCR Method. <i>Applied and Environmental Microbiology</i> , 2006, 72, 723-732.	3.1	138
28	Elemental stoichiometry of Fungi and Bacteria strains from grassland leaf litter. <i>Soil Biology and Biochemistry</i> , 2014, 76, 278-285.	8.8	133
29	Physiology and evolution of nitrate acquisition in <i>Prochlorococcus</i> . <i>ISME Journal</i> , 2015, 9, 1195-1207.	9.8	130
30	Regional variation in the particulate organic carbon to nitrogen ratio in the surface ocean. <i>Global Biogeochemical Cycles</i> , 2013, 27, 723-731.	4.9	128
31	Global-scale variations of the ratios of carbon to phosphorus in exported marine organic matter. <i>Nature Geoscience</i> , 2014, 7, 895-898.	12.9	123
32	Microbial response to simulated global change is phylogenetically conserved and linked with functional potential. <i>ISME Journal</i> , 2016, 10, 109-118.	9.8	123
33	Concentrations and ratios of particulate organic carbon, nitrogen, and phosphorus in the global ocean. <i>Scientific Data</i> , 2014, 1, 140048.	5.3	120
34	Microdiversity shapes the traits, niche space, and biogeography of microbial taxa. <i>Environmental Microbiology Reports</i> , 2017, 9, 55-70.	2.4	120
35	Prevalence of a calcium-based alkaline phosphatase associated with the marine cyanobacterium <i>Prochlorococcus</i> and other ocean bacteria. <i>Environmental Microbiology</i> , 2011, 13, 74-83.	3.8	114
36	Ecological Stoichiometry of Ocean Plankton. <i>Annual Review of Marine Science</i> , 2018, 10, 43-69.	11.6	113

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37	Temporal variation overshadows the response of leaf litter microbial communities to simulated global change. <i>ISME Journal</i> , 2015, 9, 2477-2489.	9.8	112
38	Microbial legacies alter decomposition in response to simulated global change. <i>ISME Journal</i> , 2017, 11, 490-499.	9.8	112
39	High proportions of bacteria are culturable across major biomes. <i>ISME Journal</i> , 2019, 13, 2125-2128.	9.8	109
40	Impact of ocean phytoplankton diversity on phosphate uptake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17540-17545.	7.1	93
41	Glycoside Hydrolases across Environmental Microbial Communities. <i>PLoS Computational Biology</i> , 2016, 12, e1005300.	3.2	93
42	Interactions between growth-dependent changes in cell size, nutrient supply and cellular elemental stoichiometry of marine <i>Synechococcus</i> . <i>ISME Journal</i> , 2016, 10, 2715-2724.	9.8	90
43	Metagenomic analysis reveals global-scale patterns of ocean nutrient limitation. <i>Science</i> , 2021, 372, 287-291.	12.6	85
44	Biogeochemical controls of surface ocean phosphate. <i>Science Advances</i> , 2019, 5, eaax0341.	10.3	84
45	Global picophytoplankton niche partitioning predicts overall positive response to ocean warming. <i>Nature Geoscience</i> , 2020, 13, 116-120.	12.9	82
46	Global biogeography of <i>Prochlorococcus</i> genome diversity in the surface ocean. <i>ISME Journal</i> , 2016, 10, 1856-1865.	9.8	76
47	Beta diversity of marine bacteria depends on temporal scale. <i>Ecology</i> , 2013, 94, 1898-1904.	3.2	75
48	Phylogenetic constraints on elemental stoichiometry and resource allocation in heterotrophic marine bacteria. <i>Environmental Microbiology</i> , 2014, 16, 1398-1410.	3.8	69
49	High Variability in Cellular Stoichiometry of Carbon, Nitrogen, and Phosphorus Within Classes of Marine Eukaryotic Phytoplankton Under Sufficient Nutrient Conditions. <i>Frontiers in Microbiology</i> , 2018, 9, 543.	3.5	66
50	Cellulolytic potential under environmental changes in microbial communities from grassland litter. <i>Frontiers in Microbiology</i> , 2014, 5, 639.	3.5	61
51	Parallel phylogeography of <i>Prochlorococcus</i> and <i>Synechococcus</i> . <i>ISME Journal</i> , 2019, 13, 430-441.	9.8	55
52	Macroecological patterns of marine bacteria on a global scale. <i>Journal of Biogeography</i> , 2013, 40, 800-811.	3.0	53
53	Nitrogen Cycling Potential of a Grassland Litter Microbial Community. <i>Applied and Environmental Microbiology</i> , 2015, 81, 7012-7022.	3.1	51
54	Microdiversity of an Abundant Terrestrial Bacterium Encompasses Extensive Variation in Ecologically Relevant Traits. <i>MBio</i> , 2017, 8, .	4.1	49

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55	Fine-Scale Temporal Variation in Marine Extracellular Enzymes of Coastal Southern California. <i>Frontiers in Microbiology</i> , 2012, 3, 301.	3.5	48
56	Phylogenetic conservation of bacterial responses to soil nitrogen addition across continents. <i>Nature Communications</i> , 2019, 10, 2499.	12.8	48
57	Nutrient supply controls particulate elemental concentrations and ratios in the low latitude eastern Indian Ocean. <i>Nature Communications</i> , 2018, 9, 4868.	12.8	47
58	Functional Metagenomics Reveals Previously Unrecognized Diversity of Antibiotic Resistance Genes in Gulls. <i>Frontiers in Microbiology</i> , 2011, 2, 238.	3.5	46
59	Interactions between Thermal Acclimation, Growth Rate, and Phylogeny Influence <i>Prochlorococcus</i> Elemental Stoichiometry. <i>PLoS ONE</i> , 2016, 11, e0168291.	2.5	45
60	Coupled high-throughput functional screening and next generation sequencing for identification of plant polymer decomposing enzymes in metagenomic libraries. <i>Frontiers in Microbiology</i> , 2013, 4, 282.	3.5	44
61	A model for variable phytoplankton stoichiometry based on cell protein regulation. <i>Biogeosciences</i> , 2013, 10, 4341-4356.	3.3	42
62	<i>Prochlorococcus</i> , <i>Synechococcus</i> , and picoeukaryotic phytoplankton abundances in the global ocean. <i>Limnology and Oceanography Letters</i> , 2021, 6, 207-215.	3.9	40
63	C : N : P stoichiometry at the Bermuda Atlantic Time-series Study station in the North Atlantic Ocean. <i>Biogeosciences</i> , 2015, 12, 6389-6403.	3.3	37
64	Diel variability in the elemental composition of the marine cyanobacterium <i>Synechococcus</i> . <i>Journal of Plankton Research</i> , 2016, 38, 1052-1061.	1.8	36
65	Editorial: Progress in Ecological Stoichiometry. <i>Frontiers in Microbiology</i> , 2018, 9, 1957.	3.5	36
66	A nutrient limitation mosaic in the eastern tropical Indian Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 166, 125-140.	1.4	36
67	Extracellular enzyme production and cheating in <i>Pseudomonas fluorescens</i> depend on diffusion rates. <i>Frontiers in Microbiology</i> , 2014, 5, 169.	3.5	35
68	Identification of bacterial cultures from archaeological wood using molecular biological techniques. <i>International Biodeterioration and Biodegradation</i> , 2004, 53, 79-88.	3.9	34
69	Linking regional shifts in microbial genome adaptation with surface ocean biogeochemistry. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190254.	4.0	33
70	Emergence of soil bacterial ecotypes along a climate gradient. <i>Environmental Microbiology</i> , 2018, 20, 4112-4126.	3.8	32
71	Techniques for Quantifying Phytoplankton Biodiversity. <i>Annual Review of Marine Science</i> , 2015, 7, 299-324.	11.6	30
72	The "1% culturability paradigm" needs to be carefully defined. <i>ISME Journal</i> , 2020, 14, 10-11.	9.8	30

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73	Biogeochemical interactions control a temporal succession in the elemental composition of marine communities. <i>Limnology and Oceanography</i> , 2016, 61, 531-542.	3.1	29
74	Increased biofilm formation due to high-temperature adaptation in marine <i>Roseobacter</i> . <i>Nature Microbiology</i> , 2018, 3, 989-995.	13.3	29
75	Carbon and nitrogen productivity during spring in the oligotrophic Indian Ocean along the GO-SHIP IO9N transect. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 161, 81-91.	1.4	27
76	Stoichiometry of <i>Prochlorococcus</i> , <i>Synechococcus</i> , and small eukaryotic populations in the western North Atlantic Ocean. <i>Environmental Microbiology</i> , 2017, 19, 1568-1583.	3.8	25
77	Drought increases the frequencies of fungal functional genes related to carbon and nitrogen acquisition. <i>PLoS ONE</i> , 2018, 13, e0206441.	2.5	24
78	Marine phytoplankton stoichiometry mediates nonlinear interactions between nutrient supply, temperature, and atmospheric CO ₂ . <i>Biogeosciences</i> , 2018, 15, 2761-2779.	3.3	24
79	News About Nitrogen. <i>Science</i> , 2008, 320, 757-758.	12.6	23
80	Resource allocation by the marine cyanobacterium <i>Synechococcus</i> WH8102 in response to different nutrient supply ratios. <i>Limnology and Oceanography</i> , 2015, 60, 1634-1641.	3.1	23
81	Microzooplankton regulation of surface ocean POC:PON ratios. <i>Global Biogeochemical Cycles</i> , 2016, 30, 311-332.	4.9	23
82	Seasonal and long-term changes in elemental concentrations and ratios of marine particulate organic matter. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1699-1711.	4.9	23
83	Subtle biogeochemical regimes in the Indian Ocean revealed by spatial and diel frequency of <i>Prochlorococcus</i> haplotypes. <i>Limnology and Oceanography</i> , 2020, 65, S220.	3.1	22
84	High spatial resolution global ocean metagenomes from Bio-GO-SHIP repeat hydrography transects. <i>Scientific Data</i> , 2021, 8, 107.	5.3	22
85	Influence of growth rate on the physiological response of marine <i>Synechococcus</i> to phosphate limitation. <i>Frontiers in Microbiology</i> , 2015, 6, 85.	3.5	20
86	Nitrogen enrichment shifts functional genes related to nitrogen and carbon acquisition in the fungal community. <i>Soil Biology and Biochemistry</i> , 2018, 123, 87-96.	8.8	17
87	Latitudinal gradient in the respiration quotient and the implications for ocean oxygen availability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22866-22872.	7.1	17
88	Varying influence of phytoplankton biodiversity and stoichiometric plasticity on bulk particulate stoichiometry across ocean basins. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	17
89	Phosphate supply explains variation in nucleic acid allocation but not C : P stoichiometry in the western North Atlantic. <i>Biogeosciences</i> , 2014, 11, 1599-1611.	3.3	16
90	Marine phytoplankton resilience may moderate oligotrophic ecosystem responses and biogeochemical feedbacks to climate change. <i>Limnology and Oceanography</i> , 2022, 67, .	3.1	15

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91	Genomic adaptation of marine phytoplankton populations regulates phosphate uptake. <i>Limnology and Oceanography</i> , 2020, 65, S340.	3.1	13
92	Development and Bias Assessment of a Method for Targeted Metagenomic Sequencing of Marine Cyanobacteria. <i>Applied and Environmental Microbiology</i> , 2014, 80, 1116-1125.	3.1	12
93	Diverse but uncertain responses of picophytoplankton lineages to future climate change. <i>Limnology and Oceanography</i> , 2021, 66, 4171-4181.	3.1	12
94	Gene Amplification Uncovers Large Previously Unrecognized Cryptic Antibiotic Resistance Potential in <i>E. coli</i> . <i>Microbiology Spectrum</i> , 2021, 9, e0028921.	3.0	11
95	Microbial community response to a decade of simulated global changes depends on the plant community. <i>Elementa</i> , 2021, 9, .	3.2	10
96	Linking a Latitudinal Gradient in Ocean Hydrography and Elemental Stoichiometry in the Eastern Pacific Ocean. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006622.	4.9	10
97	Bio-GO-SHIP: The Time Is Right to Establish Global Repeat Sections of Ocean Biology. <i>Frontiers in Marine Science</i> , 2022, 8, .	2.5	9
98	Monitoring biofilm formation and activity in drinking water distribution networks under oligotrophic conditions. <i>Water Science and Technology</i> , 2003, 47, 91-7.	2.5	9
99	Role of ENSO Conditions on Particulate Organic Matter Concentrations and Elemental Ratios in the Southern California Bight. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	8
100	In situ examination of microbial populations in a model drinking water distribution system. <i>Water Science and Technology: Water Supply</i> , 2002, 2, 283-288.	2.1	7
101	Persistent El Niño driven shifts in marine cyanobacteria populations. <i>PLoS ONE</i> , 2020, 15, e0238405.	2.5	7
102	Differential Response of Bacterial Microdiversity to Simulated Global Change. <i>Applied and Environmental Microbiology</i> , 2022, 88, aem0242921.	3.1	7
103	Exploring Trait Trade-Offs for Fungal Decomposers in a Southern California Grassland. <i>Frontiers in Microbiology</i> , 2021, 12, 655987.	3.5	6
104	Evolutionary Pathway Determines the Stoichiometric Response of <i>Escherichia coli</i> Adapted to High Temperature. <i>Frontiers in Ecology and Evolution</i> , 2018, 5, .	2.2	3
105	Conceptual Exchanges for Understanding Free-Living and Host-Associated Microbiomes. <i>MSystems</i> , 2022, 7, e0137421.	3.8	3
106	The Diel Cycle of Surface Ocean Elemental Stoichiometry has Implications for Ocean Productivity. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.9	3
107	Marine Cyanobacteria: <i>Prochlorococcus</i> and <i>Synechococcus</i> . , 2019, , 569-573.		2
108	Modeling Ocean Color Niche Selection by <i>Synechococcus</i> Blue-Green Acclimators. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017434.	2.6	1

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109	Presence of <i>Staphylococcus aureus</i> on University Dance Studio Floors and Barres: A Preliminary Investigation. <i>Journal of Dance Medicine and Science</i> , 2014, 18, 115-120.	0.7	0