

# Jennifer B H Martiny

## List of Publications by Citations

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95  
papers

13,291  
citations

39  
h-index

101  
g-index

101  
ext. papers

16,833  
ext. citations

9.2  
avg, IF

6.68  
L-index

#	Paper	IF	Citations
95	Microbial biogeography: putting microorganisms on the map. <i>Nature Reviews Microbiology</i> , <b>2006</b> , 4, 102-112	12.2	1881
94	Colloquium paper: resistance, resilience, and redundancy in microbial communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105 Suppl 1, 11512-9	11.5	1594
93	The minimum information about a genome sequence (MIGS) specification. <i>Nature Biotechnology</i> , <b>2008</b> , 26, 541-7	44.5	964
92	Counting the uncountable: statistical approaches to estimating microbial diversity. <i>Applied and Environmental Microbiology</i> , <b>2001</b> , 67, 4399-406	4.8	914
91	Beyond biogeographic patterns: processes shaping the microbial landscape. <i>Nature Reviews Microbiology</i> , <b>2012</b> , 10, 497-506	22.2	890
90	Fundamentals of microbial community resistance and resilience. <i>Frontiers in Microbiology</i> , <b>2012</b> , 3, 417	5.7	759
89	A taxa-area relationship for bacteria. <i>Nature</i> , <b>2004</b> , 432, 750-3	50.4	531
88	Scientists' warning to humanity: microorganisms and climate change. <i>Nature Reviews Microbiology</i> , <b>2019</b> , 17, 569-586	22.2	516
87	Drivers of bacterial beta-diversity depend on spatial scale. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 7850-4	11.5	491
86	Global patterns of bacterial beta-diversity in seafloor and seawater ecosystems. <i>PLoS ONE</i> , <b>2011</b> , 6, e24570	3.7	398
85	Microbiomes in light of traits: A phylogenetic perspective. <i>Science</i> , <b>2015</b> , 350, aac9323	33.3	392
84	Population diversity: its extent and extinction. <i>Science</i> , <b>1997</b> , 278, 689-92	33.3	382
83	Microbial abundance and composition influence litter decomposition response to environmental change. <i>Ecology</i> , <b>2013</b> , 94, 714-25	4.6	251
82	A comparison of taxon co-occurrence patterns for macro- and microorganisms. <i>Ecology</i> , <b>2007</b> , 88, 1345-53	4.6	190
81	Global biogeography of microbial nitrogen-cycling traits in soil. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 8033-40	11.5	186
80	Defining trait-based microbial strategies with consequences for soil carbon cycling under climate change. <i>ISME Journal</i> , <b>2020</b> , 14, 1-9	11.9	169
79	Conservation of tropical forest birds in countryside habitats. <i>Ecology Letters</i> , <b>2002</b> , 5, 121-129	10	153

78	Testing the functional significance of microbial composition in natural communities. <i>FEMS Microbiology Ecology</i> , <b>2007</b> , 62, 161-70	4.3	150
77	It's all relative: ranking the diversity of aquatic bacterial communities. <i>Environmental Microbiology</i> , <b>2008</b> , 10, 2200-10	5.2	146
76	Rapid diversification of coevolving marine <i>Synechococcus</i> and a virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 4544-9	11.5	142
75	Effects of dispersal and selection on stochastic assembly in microbial communities. <i>ISME Journal</i> , <b>2017</b> , 11, 176-185	11.9	128
74	Patterns of fungal diversity and composition along a salinity gradient. <i>ISME Journal</i> , <b>2011</b> , 5, 379-88	11.9	119
73	Is there a cost of virus resistance in marine cyanobacteria?. <i>ISME Journal</i> , <b>2007</b> , 1, 300-12	11.9	106
72	Decomposition responses to climate depend on microbial community composition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 11994-11999	11.5	103
71	Broad-scale Ecological Patterns Are Robust to Use of Exact Sequence Variants versus Operational Taxonomic Units. <i>MSphere</i> , <b>2018</b> , 3,	5	95
70	Microbial composition affects the functioning of estuarine sediments. <i>ISME Journal</i> , <b>2013</b> , 7, 868-79	11.9	93
69	Microbial response to simulated global change is phylogenetically conserved and linked with functional potential. <i>ISME Journal</i> , <b>2016</b> , 10, 109-18	11.9	80
68	Microbial legacies alter decomposition in response to simulated global change. <i>ISME Journal</i> , <b>2017</b> , 11, 490-499	11.9	73
67	Rapid evolution buffers ecosystem impacts of viruses in a microbial food web. <i>Ecology Letters</i> , <b>2008</b> , 11, 1178-1188	10	65
66	Pathogens promote plant diversity through a compensatory response. <i>Ecology Letters</i> , <b>2008</b> , 11, 461-9	10	60
65	Temporal variation overshadows the response of leaf litter microbial communities to simulated global change. <i>ISME Journal</i> , <b>2015</b> , 9, 2477-89	11.9	59
64	Beta diversity of marine bacteria depends on temporal scale. <i>Ecology</i> , <b>2013</b> , 94, 1898-904	4.6	57
63	Antagonistic coevolution of marine planktonic viruses and their hosts. <i>Annual Review of Marine Science</i> , <b>2014</b> , 6, 393-414	15.4	56
62	Selection and characterization of cyanophage resistance in marine <i>Synechococcus</i> strains. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 5516-22	4.8	54
61	Microbial composition alters the response of litter decomposition to environmental change. <i>Ecology</i> , <b>2015</b> , 96, 154-63	4.6	52

60	The genomic content and context of auxiliary metabolic genes in marine cyanomyoviruses. <i>Virology</i> , <b>2016</b> , 499, 219-229	3.6	49
59	Cellulolytic potential under environmental changes in microbial communities from grassland litter. <i>Frontiers in Microbiology</i> , <b>2014</b> , 5, 639	5.7	48
58	Macroecological patterns of marine bacteria on a global scale. <i>Journal of Biogeography</i> , <b>2013</b> , 40, 800-814.1		42
57	Coupled high-throughput functional screening and next generation sequencing for identification of plant polymer decomposing enzymes in metagenomic libraries. <i>Frontiers in Microbiology</i> , <b>2013</b> , 4, 282	5.7	42
56	Functional metagenomics reveals previously unrecognized diversity of antibiotic resistance genes in gulls. <i>Frontiers in Microbiology</i> , <b>2011</b> , 2, 238	5.7	39
55	Bacterial diversity is positively correlated with soil heterogeneity. <i>Ecosphere</i> , <b>2018</b> , 9, e02079	3.1	38
54	Nitrogen and phosphorus enrichment alter the composition of ammonia-oxidizing bacteria in salt marsh sediments. <i>ISME Journal</i> , <b>2010</b> , 4, 933-44	11.9	37
53	Evidence for Ecological Flexibility in the Cosmopolitan Genus. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 1874	5.7	37
52	Dispersal alters bacterial diversity and composition in a natural community. <i>ISME Journal</i> , <b>2018</b> , 12, 296-299		36
51	Microdiversity of an Abundant Terrestrial Bacterium Encompasses Extensive Variation in Ecologically Relevant Traits. <i>MBio</i> , <b>2017</b> , 8,	7.8	32
50	Alkenone producers inferred from well-preserved 18S rDNA in Greenland lake sediments. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		32
49	Genomic diversification of marine cyanophages into stable ecotypes. <i>Environmental Microbiology</i> , <b>2016</b> , 18, 4240-4253	5.2	32
48	Alpha-, beta-, and gamma-diversity of bacteria varies across habitats. <i>PLoS ONE</i> , <b>2020</b> , 15, e0233872	3.7	30
47	Nitrogen Cycling Potential of a Grassland Litter Microbial Community. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 7012-22	4.8	27
46	Marine cyanophages exhibit local and regional biogeography. <i>Environmental Microbiology</i> , <b>2013</b> , 15, 1453-63		26
45	Drought and plant litter chemistry alter microbial gene expression and metabolite production. <i>ISME Journal</i> , <b>2020</b> , 14, 2236-2247	11.9	26
44	Nonlinear responses in salt marsh functioning to increased nitrogen addition. <i>Ecology</i> , <b>2015</b> , 96, 936-47	4.6	23
43	Predictable Molecular Adaptation of Coevolving and Lytic Phage EFV12-phi1. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 3192	5.7	22

42	Phylogenetic conservation of bacterial responses to soil nitrogen addition across continents. <i>Nature Communications</i> , <b>2019</b> , 10, 2499	17.4	20
41	Abundance of broad bacterial taxa in the sargasso sea explained by environmental conditions but not water mass. <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 2786-95	4.8	20
40	Phylogenetic conservation of soil bacterial responses to simulated global changes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 375, 20190242	5.8	19
39	High-Fiber, Whole-Food Dietary Intervention Alters the Human Gut Microbiome but Not Fecal Short-Chain Fatty Acids. <i>MSystems</i> , <b>2021</b> , 6,	7.6	19
38	Emergence of soil bacterial ecotypes along a climate gradient. <i>Environmental Microbiology</i> , <b>2018</b> , 20, 4112-4126	5.2	19
37	The effect of nitrogen enrichment on c(1)-cycling microorganisms and methane flux in salt marsh sediments. <i>Frontiers in Microbiology</i> , <b>2012</b> , 3, 90	5.7	17
36	Biogeographic Variation in Host Range Phenotypes and Taxonomic Composition of Marine Cyanophage Isolates. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 983	5.7	15
35	Comparative Genomics of Nitrogen Cycling Pathways in Bacteria and Archaea. <i>Microbial Ecology</i> , <b>2019</b> , 77, 597-606	4.4	14
34	The importance of resolving biogeographic patterns of microbial microdiversity. <i>Microbiology Australia</i> , <b>2018</b> , 39, 5	0.8	13
33	Nitrogen addition, not initial phylogenetic diversity, increases litter decomposition by fungal communities. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 109	5.7	12
32	Nitrification kinetics and ammonia-oxidizing community respond to warming and altered precipitation. <i>Ecosphere</i> , <b>2015</b> , 6, art83	3.1	12
31	Cervicovaginal Microbiome Composition Is Associated with Metabolic Profiles in Healthy Pregnancy. <i>MBio</i> , <b>2020</b> , 11,	7.8	12
30	Adaptive differentiation and rapid evolution of a soil bacterium along a climate gradient. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	12
29	Experimental Evidence that Stochasticity Contributes to Bacterial Composition and Functioning in a Decomposer Community. <i>MBio</i> , <b>2019</b> , 10,	7.8	12
28	Optimization of a Method To Quantify Soil Bacterial Abundance by Flow Cytometry. <i>MSphere</i> , <b>2019</b> , 4,	5	11
27	History Leaves Its Mark on Soil Bacterial Diversity. <i>MBio</i> , <b>2016</b> , 7,	7.8	10
26	Dispersal and the Microbiome. <i>Microbe Magazine</i> , <b>2015</b> , 10, 191-196		10
25	Evolutionary relationships among bifidobacteria and their hosts and environments. <i>BMC Genomics</i> , <b>2020</b> , 21, 26	4.5	10

24	Maintenance of Sympatric and Allopatric Populations in Free-Living Terrestrial Bacteria. <i>MBio</i> , <b>2019</b> , 10,	7.8	10
23	The effect of soil inoculants on seed germination of native and invasive species. <i>Botany</i> , <b>2017</b> , 95, 469-480,		9
22	Microbial decomposers not constrained by climate history along a Mediterranean climate gradient in southern California. <i>Ecology</i> , <b>2018</b> , 99, 1441-1452	4.6	9
21	Structural analysis of a <i>Synechococcus</i> myovirus S-CAM4 and infected cells by atomic force microscopy. <i>Journal of General Virology</i> , <b>2010</b> , 91, 3095-104	4.9	9
20	Conceptual challenges in microbial community ecology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 375, 20190241	5.8	8
19	Relationships between Methylobacteria and Glyphosate with Native and Invasive Plant Species: Implications for Restoration. <i>Restoration Ecology</i> , <b>2013</b> , 21, 105-113	3.1	7
18	An atomic force microscopy investigation of cyanophage structure. <i>Micron</i> , <b>2012</b> , 43, 1336-42	2.3	7
17	Phylogenetic conservation of substrate use specialization in leaf litter bacteria. <i>PLoS ONE</i> , <b>2017</b> , 12, e0174472	3.4	7
16	The emergence of microbiome centres. <i>Nature Microbiology</i> , <b>2020</b> , 5, 2-3	26.6	7
15	The abundance of pink-pigmented facultative methylotrophs in the root zone of plant species in invaded coastal sage scrub habitat. <i>PLoS ONE</i> , <b>2012</b> , 7, e31026	3.7	6
14	Ecological patterns are robust to use of exact sequence variants versus operational taxonomic units		6
13	Defining trait-based microbial strategies with consequences for soil carbon cycling under climate change		6
12	Towards a Natural History of Soil Bacterial Communities. <i>Trends in Microbiology</i> , <b>2018</b> , 26, 250-252	12.4	5
11	The Microbial Olympics 2016. <i>Nature Microbiology</i> , <b>2016</b> , 1, 16122	26.6	5
10	Fiber Force: A Fiber Diet Intervention in an Advanced Course-Based Undergraduate Research Experience (CURE) Course. <i>Journal of Microbiology and Biology Education</i> , <b>2020</b> , 21,	1.3	4
9	Physiological adaptations of leaf litter microbial communities to long-term drought		3
8	Cervicovaginal microbiome composition drives metabolic profiles in healthy pregnancy		2
7	Alpha-, beta-, and gamma-diversity of bacteria varies across global habitats		2

6	Microbial community response to a decade of simulated global changes depends on the plant community. <i>Elementa</i> , <b>2021</b> , 9,	3.6	2
5	Microbial Biodiversity <b>2013</b> , 252-258		1
4	Microbial Biogeography <b>2013</b> , 271-279		1
3	Microbial biodiversity <b>2007</b> , 1-9		1
2	Differential Response of Bacterial Microdiversity to Simulated Global Change.. <i>Applied and Environmental Microbiology</i> , <b>2022</b> , aem0242921	4.8	0
1	Population Diversity, Overview <b>2001</b> , 168-174		