Jennifer B H Martiny

List of Publications by Year in Descending Order

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	Differential Response of Bacterial Microdiversity to Simulated Global Change.. *Applied and Environmental Microbiology*, **2022**, aem0242921	4.8	0
94	Adaptive differentiation and rapid evolution of a soil bacterium along a climate gradient. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	12
93	High-Fiber, Whole-Food Dietary Intervention Alters the Human Gut Microbiome but Not Fecal Short-Chain Fatty Acids. *MSystems*, **2021**, 6,	7.6	19
92	Microbial community response to a decade of simulated global changes depends on the plant community. *Elementa*, **2021**, 9,	3.6	2
91	Fiber Force: A Fiber Diet Intervention in an Advanced Course-Based Undergraduate Research Experience (CURE) Course. *Journal of Microbiology and Biology Education*, **2020**, 21,	1.3	4
90	Phylogenetic conservation of soil bacterial responses to simulated global changes. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2020**, 375, 20190242	5.8	19
89	Conceptual challenges in microbial community ecology. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2020**, 375, 20190241	5.8	8
88	Drought and plant litter chemistry alter microbial gene expression and metabolite production. *ISME Journal*, **2020**, 14, 2236-2247	11.9	26
87	Evolutionary relationships among bifidobacteria and their hosts and environments. *BMC Genomics*, **2020**, 21, 26	4.5	10
86	The emergence of microbiome centres. *Nature Microbiology*, **2020**, 5, 2-3	26.6	7
85	Alpha-, beta-, and gamma-diversity of bacteria varies across habitats. *PLoS ONE*, **2020**, 15, e0233872	3.7	30
84	Cervicovaginal Microbiome Composition Is Associated with Metabolic Profiles in Healthy Pregnancy. *MBio*, **2020**, 11,	7.8	12
83	Defining trait-based microbial strategies with consequences for soil carbon cycling under climate change. *ISME Journal*, **2020**, 14, 1-9	11.9	169
82	ScientistsVwarning to humanity: microorganisms and climate change. *Nature Reviews Microbiology*, **2019**, 17, 569-586	22.2	516
81	Phylogenetic conservation of bacterial responses to soil nitrogen addition across continents. *Nature Communications*, **2019**, 10, 2499	17.4	20
80	Comparative Genomics of Nitrogen Cycling Pathways in Bacteria and Archaea. *Microbial Ecology*, **2019**, 77, 597-606	4.4	14
79	Optimization of a Method To Quantify Soil Bacterial Abundance by Flow Cytometry. *MSphere*, **2019**, 4,	5	11

78	Maintenance of Sympatric and Allopatric Populations in Free-Living Terrestrial Bacteria. *MBio*, **2019**, 10,	7.8	10
77	Experimental Evidence that Stochasticity Contributes to Bacterial Composition and Functioning in a Decomposer Community. *MBio*, **2019**, 10,	7.8	12
76	Towards a Natural History of Soil Bacterial Communities. *Trends in Microbiology*, **2018**, 26, 250-252	12.4	5
75	Microbial decomposers not constrained by climate history along a Mediterranean climate gradient in southern California. *Ecology*, **2018**, 99, 1441-1452	4.6	9
74	Bacterial diversity is positively correlated with soil heterogeneity. *Ecosphere*, **2018**, 9, e02079	3.1	38
73	Dispersal alters bacterial diversity and composition in a natural community. *ISME Journal*, **2018**, 12, 296-299	11.9	36
72	Broadscale Ecological Patterns Are Robust to Use of Exact Sequence Variants versus Operational Taxonomic Units. *MSphere*, **2018**, 3,	5	95
71	Predictable Molecular Adaptation of Coevolving and Lytic Phage EfV12-phi1. *Frontiers in Microbiology*, **2018**, 9, 3192	5.7	22
70	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	11.5	103
69	Emergence of soil bacterial ecotypes along a climate gradient. *Environmental Microbiology*, **2018**, 20, 4112-4126	5.2	19
68	The importance of resolving biogeographic patterns of microbial microdiversity. *Microbiology Australia*, **2018**, 39, 5	0.8	13
67	The effect of soil inoculants on seed germination of native and invasive species. *Botany*, **2017**, 95, 469-480	1.3	9
66	Microdiversity of an Abundant Terrestrial Bacterium Encompasses Extensive Variation in Ecologically Relevant Traits. *MBio*, **2017**, 8,	7.8	32
65	Microbial legacies alter decomposition in response to simulated global change. *ISME Journal*, **2017**, 11, 490-499	11.9	73
64	Effects of dispersal and selection on stochastic assembly in microbial communities. *ISME Journal*, **2017**, 11, 176-185	11.9	128
63	Phylogenetic conservation of substrate use specialization in leaf litter bacteria. *PLoS ONE*, **2017**, 12, e0174472	3.7	7
62	Global biogeography of microbial nitrogen-cycling traits in soil. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 8033-40	11.5	186
61	The genomic content and context of auxiliary metabolic genes in marine cyanomyoviruses. *Virology*, **2016**, 499, 219-229	3.6	49

60	The Microbial Olympics 2016. *Nature Microbiology*, **2016**, 1, 16122	26.6	5
59	History Leaves Its Mark on Soil Bacterial Diversity. *MBio*, **2016**, 7,	7.8	10
58	Microbial response to simulated global change is phylogenetically conserved and linked with functional potential. *ISME Journal*, **2016**, 10, 109-18	11.9	80
57	Biogeographic Variation in Host Range Phenotypes and Taxonomic Composition of Marine Cyanophage Isolates. *Frontiers in Microbiology*, **2016**, 7, 983	5.7	15
56	Evidence for Ecological Flexibility in the Cosmopolitan Genus. *Frontiers in Microbiology*, **2016**, 7, 1874	5.7	37
55	Genomic diversification of marine cyanophages into stable ecotypes. *Environmental Microbiology*, **2016**, 18, 4240-4253	5.2	32
54	Nonlinear responses in salt marsh functioning to increased nitrogen addition. *Ecology*, **2015**, 96, 936-47	4.6	23
53	Temporal variation overshadows the response of leaf litter microbial communities to simulated global change. *ISME Journal*, **2015**, 9, 2477-89	11.9	59
52	Nitrogen addition, not initial phylogenetic diversity, increases litter decomposition by fungal communities. *Frontiers in Microbiology*, **2015**, 6, 109	5.7	12
51	Microbiomes in light of traits: A phylogenetic perspective. *Science*, **2015**, 350, aac9323	33.3	392
50	Nitrogen Cycling Potential of a Grassland Litter Microbial Community. *Applied and Environmental Microbiology*, **2015**, 81, 7012-22	4.8	27
49	Microbial composition alters the response of litter decomposition to environmental change. *Ecology*, **2015**, 96, 154-63	4.6	52
48	Nitrification kinetics and ammonia-oxidizing community respond to warming and altered precipitation. *Ecosphere*, **2015**, 6, art83	3.1	12
47	Dispersal and the Microbiome. *Microbe Magazine*, **2015**, 10, 191-196		10
46	Abundance of broad bacterial taxa in the sargasso sea explained by environmental conditions but not water mass. *Applied and Environmental Microbiology*, **2014**, 80, 2786-95	4.8	20
45	Cellulolytic potential under environmental changes in microbial communities from grassland litter. *Frontiers in Microbiology*, **2014**, 5, 639	5.7	48
44	Antagonistic coevolution of marine planktonic viruses and their hosts. *Annual Review of Marine Science*, **2014**, 6, 393-414	15.4	56
43	Relationships between Methylobacteria and Glyphosate with Native and Invasive Plant Species: Implications for Restoration. *Restoration Ecology*, **2013**, 21, 105-113	3.1	7

42	Beta diversity of marine bacteria depends on temporal scale. *Ecology*, **2013**, 94, 1898-904	4.6	57
41	Microbial abundance and composition influence litter decomposition response to environmental change. *Ecology*, **2013**, 94, 714-25	4.6	251
40	Marine cyanophages exhibit local and regional biogeography. *Environmental Microbiology*, **2013**, 15, 1452-63	5.2	26
39	Microbial composition affects the functioning of estuarine sediments. *ISME Journal*, **2013**, 7, 868-79	11.9	93
38	Macroecological patterns of marine bacteria on a global scale. *Journal of Biogeography*, **2013**, 40, 800-811	4.1	42
37	Microbial Biodiversity **2013**, 252-258		1
36	Microbial Biogeography **2013**, 271-279		1
35	Coupled high-throughput functional screening and next generation sequencing for identification of plant polymer decomposing enzymes in metagenomic libraries. *Frontiers in Microbiology*, **2013**, 4, 282	5.7	42
34	An atomic force microscopy investigation of cyanophage structure. *Micron*, **2012**, 43, 1336-42	2.3	7
33	The abundance of pink-pigmented facultative methylotrophs in the root zone of plant species in invaded coastal sage scrub habitat. *PLoS ONE*, **2012**, 7, e31026	3.7	6
32	The effect of nitrogen enrichment on c(1)-cycling microorganisms and methane flux in salt marsh sediments. *Frontiers in Microbiology*, **2012**, 3, 90	5.7	17
31	Beyond biogeographic patterns: processes shaping the microbial landscape. *Nature Reviews Microbiology*, **2012**, 10, 497-506	22.2	890
30	Rapid diversification of coevolving marine Synechococcus and a virus. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 4544-9	11.5	142
29	Fundamentals of microbial community resistance and resilience. *Frontiers in Microbiology*, **2012**, 3, 417	5.7	759
28	Functional metagenomics reveals previously unrecognized diversity of antibiotic resistance genes in gulls. *Frontiers in Microbiology*, **2011**, 2, 238	5.7	39
27	Global patterns of bacterial beta-diversity in seafloor and seawater ecosystems. *PLoS ONE*, **2011**, 6, e24570	3.7	398
26	Patterns of fungal diversity and composition along a salinity gradient. *ISME Journal*, **2011**, 5, 379-88	11.9	119
25	Drivers of bacterial beta-diversity depend on spatial scale. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 7850-4	11.5	491

24	Nitrogen and phosphorus enrichment alter the composition of ammonia-oxidizing bacteria in salt marsh sediments. *ISME Journal*, **2010**, 4, 933-44	11.9	37
23	Structural analysis of a Synechococcus myovirus S-CAM4 and infected cells by atomic force microscopy. *Journal of General Virology*, **2010**, 91, 3095-104	4.9	9
22	The minimum information about a genome sequence (MIGS) specification. *Nature Biotechnology*, **2008**, 26, 541-7	44.5	964
21	Pathogens promote plant diversity through a compensatory response. *Ecology Letters*, **2008**, 11, 461-9	10	60
20	Rapid evolution buffers ecosystem impacts of viruses in a microbial food web. *Ecology Letters*, **2008**, 11, 1178-1188	10	65
19	It's all relative: ranking the diversity of aquatic bacterial communities. *Environmental Microbiology*, **2008**, 10, 2200-10	5.2	146
18	Colloquium paper: resistance, resilience, and redundancy in microbial communities. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105 Suppl 1, 11512-9	11.5	1594
17	A comparison of taxon co-occurrence patterns for macro- and microorganisms. *Ecology*, **2007**, 88, 1345-53	4.6	190
16	Is there a cost of virus resistance in marine cyanobacteria?. *ISME Journal*, **2007**, 1, 300-12	11.9	106
15	Testing the functional significance of microbial composition in natural communities. *FEMS Microbiology Ecology*, **2007**, 62, 161-70	4.3	150
14	Selection and characterization of cyanophage resistance in marine Synechococcus strains. *Applied and Environmental Microbiology*, **2007**, 73, 5516-22	4.8	54
13	Microbial biodiversity **2007**, 1-9		1
12	Alkenone producers inferred from well-preserved 18S rDNA in Greenland lake sediments. *Journal of Geophysical Research*, **2006**, 111,		32
11	Microbial biogeography: putting microorganisms on the map. *Nature Reviews Microbiology*, **2006**, 4, 102-12	12.2	1881
10	A taxa-area relationship for bacteria. *Nature*, **2004**, 432, 750-3	50.4	531
9	Conservation of tropical forest birds in countryside habitats. *Ecology Letters*, **2002**, 5, 121-129	10	153
8	Population Diversity, Overview **2001**, 168-174		
7	Counting the uncountable: statistical approaches to estimating microbial diversity. *Applied and Environmental Microbiology*, **2001**, 67, 4399-406	4.8	914

6	Population diversity: its extent and extinction. *Science*, **1997**, 278, 689-92	33.3	382
5	Cervicovaginal microbiome composition drives metabolic profiles in healthy pregnancy		2
4	Alpha-, beta-, and gamma-diversity of bacteria varies across global habitats		2
3	Ecological patterns are robust to use of exact sequence variants versus operational taxonomic units		6
2	Defining trait-based microbial strategies with consequences for soil carbon cycling under climate change		6
1	Physiological adaptations of leaf litter microbial communities to long-term drought		3