Jennifer B H Martiny

List of Publications by Year
in descending order

93 papers	19,015 citations	57758 44 h-index	48315 88 g-index
101 all docs	101 docs citations	101 times ranked	20158 citing authors

#	Article	IF	Citations
1	Differential Response of Bacterial Microdiversity to Simulated Global Change. Applied and Environmental Microbiology, 2022, 88, aem0242921.	3.1	7
2	Bacterial community response to environmental change varies with depth in the surface soil. Soil Biology and Biochemistry, 2022, 172, 108761.	8.8	15
3	Routes and rates of bacterial dispersal impact surface soil microbiome composition and functioning. ISME Journal, 2022, 16, 2295-2304.	9.8	26
4	Microbial community response to a decade of simulated global changes depends on the plant community. Elementa, 2021, 9, .	3.2	10
5	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, .	7.1	56
6	High-Fiber, Whole-Food Dietary Intervention Alters the Human Gut Microbiome but Not Fecal Short-Chain Fatty Acids. MSystems, 2021, 6, .	3.8	69
7	Defining trait-based microbial strategies with consequences for soil carbon cycling under climate change. ISME Journal, 2020, 14, 1-9.	9.8	470
8	Evolutionary relationships among bifidobacteria and their hosts and environments. BMC Genomics, 2020, 21, 26.	2.8	26
9	The emergence of microbiome centres. Nature Microbiology, 2020, 5, 2-3.	13.3	13
10	Alpha-, beta-, and gamma-diversity of bacteria varies across habitats. PLoS ONE, 2020, 15, e0233872.	2.5	105
11	Cervicovaginal Microbiome Composition Is Associated with Metabolic Profiles in Healthy Pregnancy. MBio, 2020, 11, .	4.1	30
12	Fiber Force: A Fiber Diet Intervention in an Advanced Course-Based Undergraduate Research Experience (CURE) Course. Journal of Microbiology and Biology Education, 2020, 21, .	1.0	15
13	Phylogenetic conservation of soil bacterial responses to simulated global changes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190242.	4.0	46
14	Conceptual challenges in microbial community ecology. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190241.	4.0	21
15	Drought and plant litter chemistry alter microbial gene expression and metabolite production. ISME Journal, 2020, 14, 2236-2247.	9.8	79
16	Comparative Genomics of Nitrogen Cycling Pathways in Bacteria and Archaea. Microbial Ecology, 2019, 77, 597-606.	2.8	21
17	Scientistsâ€™ warning to humanity: microorganisms and climate change. Nature Reviews Microbiology, 2019, 17, 569-586.	28.6	1,138
18	Phylogenetic conservation of bacterial responses to soil nitrogen addition across continents. Nature Communications, 2019, 10, 2499.	12.8	48

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19	Optimization of a Method To Quantify Soil Bacterial Abundance by Flow Cytometry. MSphere, 2019, 4, .	2.9	25
20	Maintenance of Sympatric and Allopatric Populations in Free-Living Terrestrial Bacteria. MBio, 2019, 10, .	4.1	19
21	Experimental Evidence that Stochasticity Contributes to Bacterial Composition and Functioning in a Decomposer Community. MBio, 2019, 10, .	4.1	23
22	Towards a Natural History of Soil Bacterial Communities. Trends in Microbiology, 2018, 26, 250-252.	7.7	7
23	Microbial decomposers not constrained by climate history along a Mediterranean climate gradient in southern California. Ecology, 2018, 99, 1441-1452.	3.2	16
24	Bacterial diversity is positively correlated with soil heterogeneity. Ecosphere, 2018, 9, e02079.	2.2	68
25	Dispersal alters bacterial diversity and composition in a natural community. ISME Journal, 2018, 12, 296-299.	9.8	70
26	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
27	Emergence of soil bacterial ecotypes along a climate gradient. Environmental Microbiology, 2018, 20, 4112-4126.	3.8	32
28	The importance of resolving biogeographic patterns of microbial microdiversity. Microbiology Australia, 2018, 39, 5.	0.4	23
29	Is Throwing an Apple Core Out of the Car Littering?â€"Microbial Communities in Natural Composting. Frontiers for Young Minds, 2018, 6, .	0.8	0
30	Broadscale Ecological Patterns Are Robust to Use of Exact Sequence Variants versus Operational Taxonomic Units. MSphere, 2018, 3, .	2.9	168
31	Predictable Molecular Adaptation of Coevolving Enterococcus faecium and Lytic Phage EfV12-phi1. Frontiers in Microbiology, 2018, 9, 3192.	3.5	30
32	The effect of soil inoculants on seed germination of native and invasive species. Botany, 2017, 95, 469-480.	1.0	16
33	Microdiversity of an Abundant Terrestrial Bacterium Encompasses Extensive Variation in Ecologically Relevant Traits. MBio, 2017, 8, .	4.1	49
34	Microbial legacies alter decomposition in response to simulated global change. ISME Journal, 2017, 11, 490-499.	9.8	112
35	Effects of dispersal and selection on stochastic assembly in microbial communities. ISME Journal, 2017, 11, 176-185.	9.8	256
36	Phylogenetic conservation of substrate use specialization in leaf litter bacteria. PLoS ONE, 2017, 12, e0174472.	2.5	14

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37	Biogeographic Variation in Host Range Phenotypes and Taxonomic Composition of Marine Cyanophage Isolates. Frontiers in Microbiology, 2016, 7, 983.	3.5	26
38	Evidence for Ecological Flexibility in the Cosmopolitan Genus Curtobacterium. Frontiers in Microbiology, 2016, 7, 1874.	3.5	66
39	Genomic diversification of marine cyanophages into stable ecotypes. Environmental Microbiology, 2016, 18, 4240-4253.	3.8	44
40	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
41	The genomic content and context of auxiliary metabolic genes in marine cyanomyoviruses. Virology, 2016, 499, 219-229.	2.4	99
42	The Microbial Olympics 2016. Nature Microbiology, 2016, 1, 16122.	13.3	7
43	History Leaves Its Mark on Soil Bacterial Diversity. MBio, 2016, 7, .	4.1	14
44	Microbial response to simulated global change is phylogenetically conserved and linked with functional potential. ISME Journal, 2016, 10, 109-118.	9.8	123
45	Nitrification kinetics and ammoniaâ€oxidizing community respond to warming and altered precipitation. Ecosphere, 2015, 6, 1-17.	2.2	19
46	Nonlinear responses in salt marsh functioning to increased nitrogen addition. Ecology, 2015, 96, 936-947.	3.2	31
47	Temporal variation overshadows the response of leaf litter microbial communities to simulated global change. ISME Journal, 2015, 9, 2477-2489.	9.8	112
48	Nitrogen addition, not initial phylogenetic diversity, increases litter decomposition by fungal communities. Frontiers in Microbiology, 2015, 6, 109.	3.5	17
49	Microbiomes in light of traits: A phylogenetic perspective. Science, 2015, 350, aac9323.	12.6	652
50	Nitrogen Cycling Potential of a Grassland Litter Microbial Community. Applied and Environmental Microbiology, 2015, 81, 7012-7022.	3.1	51
51	Microbial composition alters the response of litter decomposition to environmental change. Ecology, 2015, 96, 154-163.	3.2	71
52	Dispersal and the Microbiome. Microbe Magazine, 2015, 10, 191-196.	0.4	13
53	Cellulolytic potential under environmental changes in microbial communities from grassland litter. Frontiers in Microbiology, 2014, 5, 639.	3.5	61
54	Antagonistic Coevolution of Marine Planktonic Viruses and Their Hosts. Annual Review of Marine Science, 2014, 6, 393-414.	11.6	68

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55	Abundance of Broad Bacterial Taxa in the Sargasso Sea Explained by Environmental Conditions but Not Water Mass. Applied and Environmental Microbiology, 2014, 80, 2786-2795.	3.1	36
56	Relationships between Methylobacteria and Glyphosate with Native and Invasive Plant Species: Implications for Restoration. Restoration Ecology, 2013, 21, 105-113.	2.9	12
57	Beta diversity of marine bacteria depends on temporal scale. Ecology, 2013, 94, 1898-1904.	3.2	75
58	Microbial abundance and composition influence litter decomposition response to environmental change. Ecology, 2013, 94, 714-725.	3.2	340
59	Marine cyanophages exhibit local and regional biogeography. Environmental Microbiology, 2013, 15, 1452-1463.	3.8	43
60	Microbial composition affects the functioning of estuarine sediments. ISME Journal, 2013, 7, 868-879.	9.8	130
61	Macroecological patterns of marine bacteria on a global scale. Journal of Biogeography, 2013, 40, 800-811.	3.0	53
62	Microbial Biodiversity. , 2013, , 252-258.		2
63	Microbial Biogeography. , 2013, , 271-279.		1
64	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.	3.5	44
65	Rapid diversification of coevolving marine <i>Synechococcus</i> and a virus. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4544-4549.	7.1	178
66	Fundamentals of Microbial Community Resistance and Resilience. Frontiers in Microbiology, 2012, 3, 417.	3.5	1,131
67	An atomic force microscopy investigation of cyanophage structure. Micron, 2012, 43, 1336-1342.	2.2	9
68	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.	2.5	15
69	The Effect of Nitrogen Enrichment on C1-Cycling Microorganisms and Methane Flux in Salt Marsh Sediments. Frontiers in Microbiology, 2012, 3, 90.	3.5	24
70	Beyond biogeographic patterns: processes shaping the microbial landscape. Nature Reviews Microbiology, 2012, 10, 497-506.	28.6	1,299
71	Drivers of bacterial Î^{2}-diversity depend on spatial scale. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7850-7854.	7.1	672
72	Functional Metagenomics Reveals Previously Unrecognized Diversity of Antibiotic Resistance Genes in Gulls. Frontiers in Microbiology, 2011, 2, 238.	3.5	46

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73	Global Patterns of Bacterial Beta-Diversity in Seafloor and Seawater Ecosystems. PLoS ONE, 2011, 6, e24570.	2.5	525
74	Patterns of fungal diversity and composition along a salinity gradient. ISME Journal, 2011, 5, 379-388.	9.8	160
75	Nitrogen and phosphorus enrichment alter the composition of ammonia-oxidizing bacteria in salt marsh sediments. ISME Journal, 2010, 4, 933-944.	9.8	41
76	Structural analysis of a Synechococcus myovirus S-CAM4 and infected cells by atomic force microscopy. Journal of General Virology, 2010, 91, 3095-3104.	2.9	10
77	The minimum information about a genome sequence (MIGS) specification. Nature Biotechnology, 2008, 26, 541-547.	17.5	1,069
78	Pathogens promote plant diversity through a compensatory response. Ecology Letters, 2008, 11, 461-469.	6.4	71
79	Rapid evolution buffers ecosystem impacts of viruses in a microbial food web^{Â§}. Ecology Letters, 2008, 11, 1178-1188.	6.4	73
80	It's all relative: ranking the diversity of aquatic bacterial communities. Environmental Microbiology, 2008, 10, 2200-2210.	3.8	159
81	Resistance, resilience, and redundancy in microbial communities. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11512-11519.	7.1	2,195
82	Selection and Characterization of Cyanophage Resistance in Marine <i>Synechococcus</i> Strains. Applied and Environmental Microbiology, 2007, 73, 5516-5522.	3.1	64
83	A COMPARISON OF TAXON CO-OCCURRENCE PATTERNS FOR MACRO- AND MICROORGANISMS. Ecology, 2007, 88, 1345-1353.	3.2	223
84	Is there a cost of virus resistance in marine cyanobacteria?. ISME Journal, 2007, 1, 300-312.	9.8	127
85	Testing the functional significance of microbial composition in natural communities. FEMS Microbiology Ecology, 2007, 62, 161-170.	2.7	173
86	Microbial biodiversity. , 2007, , 1-9.		1
87	Alkenone producers inferred from well-preserved 18S rDNA in Greenland lake sediments. Journal of Geophysical Research, 2006, 111, .	3.3	39
88	Microbial biogeography: putting microorganisms on the map. Nature Reviews Microbiology, 2006, 4, 102-112.	28.6	2,434
89	A taxaâ€"area relationship for bacteria. Nature, 2004, 432, 750-753.	27.8	632
90	Conservation of tropical forest birds in countryside habitats. Ecology Letters, 2002, 5, 121-129.	6.4	181

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91	Population Diversity, Overview. , 2001, , 168-174.		0
92	Counting the Uncountable: Statistical Approaches to Estimating Microbial Diversity. Applied and Environmental Microbiology, 2001, 67, 4399-4406.	3.1	1,032
93	Population Diversity: Its Extent and Extinction. Science, 1997, 278, 689-692.	12.6	471