Jennifer Martiny

List of Articles by Year in descending order

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86 peer-reviewed articles	13,086 peer-reviewed citations	85914 40 peer-reviewed h-index	182767 5.44 score
103 documents	16770 doc citations	75285 45 h-index	32116 citing authors

#	Article	IF	Citations
1	Microbiomes should be incorporated into The One Health Joint Plan of Action. , 2025, 46, 53-55.		3
2	Rethinking assumptions about plant litter decomposition. BioScience, 2025, 75, 490-498.	2.7	28
3	Investigating bacterial evolution in nature with metagenomics. Current Opinion in Microbiology, 2025, 87, 102654.	4.9	1
4	Microbial dispersal into surface soil is limited on a meter scale. ISME Journal, 2025, 19, .	5.9	6
5	The contribution of plasmids to trait diversity in a soil bacterium. ISME Communications, 2024, 4, .	3.8	5
6	Priorities, opportunities, and challenges for integrating microorganisms into Earth system models for climate change prediction. MBio, 2024, 15, .	3.1	44
7	Investigating eco-evolutionary processes of microbial community assembly in the wild using a model leaf litter system. ISME Journal, 2024, 18, .	5.9	15
8	Short-term dietary fiber interventions produce consistent gut microbiome responses across studies. MSystems, 2024, 9, .	2.8	25
9	Bacterial population-level trade-offs between drought tolerance and resource acquisition traits impact decomposition. ISME Journal, 2024, 18, .	5.9	20
10	Plasmid-Encoded Traits Vary across Environments. MBio, 2023, 14, .	3.1	41
11	Functional significance of microbial diversity in arid soils: biological soil crusts and nitrogen fixation as a model system. FEMS Microbiology Ecology, 2023, 99, .	2.2	14
12	Curated and harmonized gut microbiome 16S rRNA amplicon data from dietary fiber intervention studies in humans. Scientific Data, 2023, 10, .	3.8	3
13	Life history strategies of soil bacterial communities across global terrestrial biomes. Nature Microbiology, 2023, 8, 2093-2102.	9.9	169
14	Desiccation induces varied responses within a soil bacterial genus. Environmental Microbiology, 2023, 25, 3075-3086.	2.6	20
15	Testing the contribution of dispersal to microbial succession following a wildfire. MSystems, 2023, 8, .	2.8	15
16	Differential Response of Bacterial Microdiversity to Simulated Global Change. Applied and Environmental Microbiology, 2022, 88, .	2.4	14
17	Bacterial community response to environmental change varies with depth in the surface soil. Soil Biology and Biochemistry, 2022, 172, 108761.	7.8	56
18	Routes and rates of bacterial dispersal impact surface soil microbiome composition and functioning. ISME Journal, 2022, 16, 2295-2304.	5.9	68

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19	Microbial community response to a decade of simulated global changes depends on the plant community. Elementa, 2021, 9, .	2.0	25
20	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, .	5.2	121
21	High-Fiber, Whole-Food Dietary Intervention Alters the Human Gut Microbiome but Not Fecal Short-Chain Fatty Acids. MSystems, 2021, 6, .	2.8	166
22	Evolutionary relationships among bifidobacteria and their hosts and environments. BMC Genomics, 2020, 21, .	2.1	43
23	Alpha-, beta-, and gamma-diversity of bacteria varies across habitats. PLoS ONE, 2020, 15, e0233872.	1.5	244
24	Cervicovaginal Microbiome Composition Is Associated with Metabolic Profiles in Healthy Pregnancy. MBio, 2020, 11, .	3.1	50
25	Fiber Force: A Fiber Diet Intervention in an Advanced Course-Based Undergraduate Research Experience (CURE) Course. Journal of Microbiology and Biology Education, 2020, 21, .	0.6	18
26	Phylogenetic conservation of soil bacterial responses to simulated global changes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190242.	2.6	64
27	Conceptual challenges in microbial community ecology. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190241.	2.6	35
28	Drought and plant litter chemistry alter microbial gene expression and metabolite production. ISME Journal, 2020, 14, 2236-2247.	5.9	151
29	Scientists' warning to humanity: microorganisms and climate change. Nature Reviews Microbiology, 2019, 17, 569-586.	58.2	1,870
30	Phylogenetic conservation of bacterial responses to soil nitrogen addition across continents. Nature Communications, 2019, 10, .	10.8	78
31	Predictable Molecular Adaptation of Coevolving Enterococcus faecium and Lytic Phage EfV12-phi1. Frontiers in Microbiology, 2019, 9, .	2.9	45
32	Optimization of a Method To Quantify Soil Bacterial Abundance by Flow Cytometry. MSphere, 2019, 4, .	2.1	42
33	Maintenance of Sympatric and Allopatric Populations in Free-Living Terrestrial Bacteria. MBio, 2019, 10, .	3.1	26
34	Experimental Evidence that Stochasticity Contributes to Bacterial Composition and Functioning in a Decomposer Community. MBio, 2019, 10, .	3.1	33
35	Microbial decomposers not constrained by climate history along a Mediterranean climate gradient in southern California. Ecology, 2018, 99, 1441-1452.	2.4	20
36	Bacterial diversity is positively correlated with soil heterogeneity. Ecosphere, 2018, 9, .	1.7	95

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37	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.	5.2	355
38	Emergence of soil bacterial ecotypes along a climate gradient. Environmental Microbiology, 2018, 20, 4112-4126.	2.6	47
39	Comparative Genomics of Nitrogen Cycling Pathways in Bacteria and Archaea. Microbial Ecology, 2018, 77, 597-606.	2.5	40
40	The effect of soil inoculants on seed germination of native and invasive species. Botany, 2017, 95, 469-480.	0.7	19
41	Microdiversity of an Abundant Terrestrial Bacterium Encompasses Extensive Variation in Ecologically Relevant Traits. MBio, 2017, 8, .	3.1	63
42	Dispersal alters bacterial diversity and composition in a natural community. ISME Journal, 2017, 12, 296-299.	5.9	102
43	Phylogenetic conservation of substrate use specialization in leaf litter bacteria. PLoS ONE, 2017, 12, e0174472.	1.5	17
44	Biogeographic Variation in Host Range Phenotypes and Taxonomic Composition of Marine Cyanophage Isolates. Frontiers in Microbiology, 2016, 7, .	2.9	31
45	Evidence for Ecological Flexibility in the Cosmopolitan Genus Curtobacterium. Frontiers in Microbiology, 2016, 7, .	2.9	100
46	Genomic diversification of marine cyanophages into stable ecotypes. Environmental Microbiology, 2016, 18, 4240-4253.	2.6	54
47	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.	5.2	575
48	The genomic content and context of auxiliary metabolic genes in marine cyanomyoviruses. Virology, 2016, 499, 219-229.	1.6	131
49	Effects of dispersal and selection on stochastic assembly in microbial communities. ISME Journal, 2016, 11, 176-185.	5.9	428
50	Nitrification kinetics and ammonia-oxidizing community respond to warming and altered precipitation. Ecosphere, 2015, 6, 1-17.	1.7	26
51	Nonlinear responses in salt marsh functioning to increased nitrogen addition. Ecology, 2015, 96, 936-947.	2.4	37
52	Temporal variation overshadows the response of leaf litter microbial communities to simulated global change. ISME Journal, 2015, 9, 2477-2489.	5.9	133
53	Nitrogen addition, not initial phylogenetic diversity, increases litter decomposition by fungal communities. Frontiers in Microbiology, 2015, 6, .	2.9	19
54	Microbiomes in light of traits: A phylogenetic perspective. Science, 2015, 350, .	26.1	856

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55	Nitrogen Cycling Potential of a Grassland Litter Microbial Community. Applied and Environmental Microbiology, 2015, 81, 7012-7022.	2.4	70
56	Microbial composition alters the response of litter decomposition to environmental change. Ecology, 2015, 96, 154-163.	2.4	87
57	Microbial response to simulated global change is phylogenetically conserved and linked with functional potential. ISME Journal, 2015, 10, 109-118.	5.9	154
58	Cellulolytic potential under environmental changes in microbial communities from grassland litter. Frontiers in Microbiology, 2014, 5, .	2.9	72
59	Antagonistic Coevolution of Marine Planktonic Viruses and Their Hosts. Annual Review of Marine Science, 2014, 6, 393-414.	12.2	86
60	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.	2.4	35
61	Relationships between Methylobacteria and Glyphosate with Native and Invasive Plant Species: Implications for Restoration. Restoration Ecology, 2013, 21, 105-113.	1.8	12
62	Marine cyanophages exhibit local and regional biogeography. Environmental Microbiology, 2013, 15, 1452-1463.	2.6	45
63	Macroecological patterns of marine bacteria on a global scale. Journal of Biogeography, 2013, 40, 800-811.	1.9	57
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, .	2.9	49
65	Diversity and temporal dynamics of Southern California coastal marine cyanophage isolates. Aquatic Microbial Ecology, 2013, 69, 17-31.	0.8	19
66	Rapid diversification of coevolving marine Synechococcus and a virus. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4544-4549.	5.2	215
67	Fundamentals of Microbial Community Resistance and Resilience. Frontiers in Microbiology, 2012, 3, .	2.9	1,660
68	An atomic force microscopy investigation of cyanophage structure. Micron, 2012, 43, 1336-1342.	1.9	9
69	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.	1.5	18
70	The Effect of Nitrogen Enrichment on C1-Cycling Microorganisms and Methane Flux in Salt Marsh Sediments. Frontiers in Microbiology, 2012, 3, .	2.9	26
71	Beyond biogeographic patterns: processes shaping the microbial landscape. Nature Reviews Microbiology, 2012, 10, 497-506.	58.2	1,661
72	Microbial composition affects the functioning of estuarine sediments. ISME Journal, 2012, 7, 868-879.	5.9	156

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73	Drivers of bacterial β-diversity depend on spatial scale. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7850-7854.	5.2	807
74	Functional Metagenomics Reveals Previously Unrecognized Diversity of Antibiotic Resistance Genes in Gulls. Frontiers in Microbiology, 2011, 2, .	2.9	54
75	Global Patterns of Bacterial Beta-Diversity in Seafloor and Seawater Ecosystems. PLoS ONE, 2011, 6, e24570.	1.5	601
76	Nitrogen and phosphorus enrichment alter the composition of ammonia-oxidizing bacteria in salt marsh sediments. ISME Journal, 2010, 4, 933-944.	5.9	46
77	Patterns of fungal diversity and composition along a salinity gradient. ISME Journal, 2010, 5, 379-388.	5.9	195
78	Pathogens promote plant diversity through a compensatory response. Ecology Letters, 2008, 11, 461-469.	4.1	74
79	Rapid evolution buffers ecosystem impacts of viruses in a microbial food web §. Ecology Letters, 2008, 11, 1178-1188.	4.1	77
80	It's all relative: ranking the diversity of aquatic bacterial communities. Environmental Microbiology, 2008, 10, 2200-2210.	2.6	165
81	Selection and Characterization of Cyanophage Resistance in Marine Synechococcus Strains. Applied and Environmental Microbiology, 2007, 73, 5516-5522.	2.4	76
82	A COMPARISON OF TAXON CO-OCCURRENCE PATTERNS FOR MACRO- AND MICROORGANISMS. Ecology, 2007, 88, 1345-1353.	2.4	236
83	Is there a cost of virus resistance in marine cyanobacteria?. ISME Journal, 2007, 1, 300-312.	5.9	143
84	Testing the functional significance of microbial composition in natural communities. FEMS Microbiology Ecology, 2007, 62, 161-170.	2.2	183
85	Alkenone producers inferred from well-preserved 18S rDNA in Greenland lake sediments. Journal of Geophysical Research, 2006, 111, .	3.5	40
86	Microbial biogeography: putting microorganisms on the map. Nature Reviews Microbiology, 2006, 4, 102-112.	58.2	2,844