

Daliang Ning

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

7,102
citations

109321

35
h-index

106344

65
g-index

67
all docs

67
docs citations

67
times ranked

5990
citing authors

#	ARTICLE	IF	CITATIONS
1	Stochastic Community Assembly: Does It Matter in Microbial Ecology?. <i>Microbiology and Molecular Biology Reviews</i> , 2017, 81, .	6.6	1,291
2	Climate warming enhances microbial network complexity and stability. <i>Nature Climate Change</i> , 2021, 11, 343-348.	18.8	672
3	Global diversity and biogeography of bacterial communities in wastewater treatment plants. <i>Nature Microbiology</i> , 2019, 4, 1183-1195.	13.3	491
4	A general framework for quantitatively assessing ecological stochasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16892-16898.	7.1	482
5	Temperature mediates continental-scale diversity of microbes in forest soils. <i>Nature Communications</i> , 2016, 7, 12083.	12.8	419
6	A quantitative framework reveals ecological drivers of grassland microbial community assembly in response to warming. <i>Nature Communications</i> , 2020, 11, 4717.	12.8	417
7	Biodegradation of Polyethylene and Plastic Mixtures in Mealworms (Larvae of <i>Tenebrio</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 6526-6533.	10.0	316
8	Climate warming leads to divergent succession of grassland microbial communities. <i>Nature Climate Change</i> , 2018, 8, 813-818.	18.8	208
9	Small and mighty: adaptation of superphylum Patescibacteria to groundwater environment drives their genome simplicity. <i>Microbiome</i> , 2020, 8, 51.	11.1	205
10	Oral microbiota of periodontal health and disease and their changes after nonsurgical periodontal therapy. <i>ISME Journal</i> , 2018, 12, 1210-1224.	9.8	188
11	Biodegradation of polystyrene wastes in yellow mealworms (larvae of <i>Tenebrio molitor</i> Linnaeus): Factors affecting biodegradation rates and the ability of polystyrene-fed larvae to complete their life cycle. <i>Chemosphere</i> , 2018, 191, 979-989.	8.2	168
12	Ubiquity of polystyrene digestion and biodegradation within yellow mealworms, larvae of <i>Tenebrio molitor</i> Linnaeus (Coleoptera: Tenebrionidae). <i>Chemosphere</i> , 2018, 212, 262-271.	8.2	130
13	Microecological Koch's postulates reveal that intestinal microbiota dysbiosis contributes to shrimp white feces syndrome. <i>Microbiome</i> , 2020, 8, 32.	11.1	126
14	Deterministic Assembly and Diversity Gradient Altered the Biofilm Community Performances of Bioreactors. <i>Environmental Science & Technology</i> , 2019, 53, 1315-1324.	10.0	109
15	Biodegradability of wastewater determines microbial assembly mechanisms in full-scale wastewater treatment plants. <i>Water Research</i> , 2020, 169, 115276.	11.3	109
16	Evaluation of the reproducibility of amplicon sequencing with Illumina MiSeq platform. <i>PLoS ONE</i> , 2017, 12, e0176716.	2.5	107
17	Reduction of microbial diversity in grassland soil is driven by long-term climate warming. <i>Nature Microbiology</i> , 2022, 7, 1054-1062.	13.3	86
18	Seasonal dynamics of the microbial community in two full-scale wastewater treatment plants: Diversity, composition, phylogenetic group based assembly and co-occurrence pattern. <i>Water Research</i> , 2021, 200, 117295.	11.3	83

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19	Climate warming accelerates temporal scaling of grassland soil microbial biodiversity. <i>Nature Ecology and Evolution</i> , 2019, 3, 612-619.	7.8	82
20	Electrical selection for planktonic sludge microbial community function and assembly. <i>Water Research</i> , 2021, 206, 117744.	11.3	81
21	Microbial community assembly differs across minerals in a rhizosphere microcosm. <i>Environmental Microbiology</i> , 2018, 20, 4444-4460.	3.8	77
22	Nearly a decade-long repeatable seasonal diversity patterns of bacterioplankton communities in the eutrophic Lake Donghu (Wuhan, China). <i>Molecular Ecology</i> , 2017, 26, 3839-3850.	3.9	76
23	Warming-induced permafrost thaw exacerbates tundra soil carbon decomposition mediated by microbial community. <i>Microbiome</i> , 2020, 8, 3.	11.1	75
24	Gene-informed decomposition model predicts lower soil carbon loss due to persistent microbial adaptation to warming. <i>Nature Communications</i> , 2020, 11, 4897.	12.8	67
25	Interdomain ecological networks between plants and microbes. <i>Molecular Ecology Resources</i> , 2019, 19, 1565-1577.	4.8	64
26	Disentangling direct from indirect relationships in association networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	61
27	Century long fertilization reduces stochasticity controlling grassland microbial community succession. <i>Soil Biology and Biochemistry</i> , 2020, 151, 108023.	8.8	60
28	Effect of eco-remediation using planted floating bed system on nutrients and heavy metals in urban river water and sediment: A field study in China. <i>Science of the Total Environment</i> , 2014, 485-486, 596-603.	8.0	59
29	Microbial Functional Gene Diversity Predicts Groundwater Contamination and Ecosystem Functioning. <i>MBio</i> , 2018, 9, .	4.1	57
30	Functional Gene Array-Based Ultrasensitive and Quantitative Detection of Microbial Populations in Complex Communities. <i>MSystems</i> , 2019, 4, .	3.8	54
31	Protist diversity and community complexity in the rhizosphere of switchgrass are dynamic as plants develop. <i>Microbiome</i> , 2021, 9, 96.	11.1	54
32	Winter warming in Alaska accelerates lignin decomposition contributed by Proteobacteria. <i>Microbiome</i> , 2020, 8, 84.	11.1	47
33	Towards revealing the global diversity and community assembly of soil eukaryotes. <i>Ecology Letters</i> , 2022, 25, 65-76.	6.4	47
34	Biogeochemistry drives diversity in the prokaryotes, fungi, and invertebrates of a Panama forest. <i>Ecology</i> , 2017, 98, 2019-2028.	3.2	46
35	The spatial scale dependence of diazotrophic and bacterial community assembly in paddy soil. <i>Global Ecology and Biogeography</i> , 2019, 28, 1093-1105.	5.8	42
36	Precipitation balances deterministic and stochastic processes of bacterial community assembly in grassland soils. <i>Soil Biology and Biochemistry</i> , 2022, 168, 108635.	8.8	38

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37	Continental scale structuring of forest and soil diversity via functional traits. <i>Nature Ecology and Evolution</i> , 2019, 3, 1298-1308.	7.8	34
38	Biogeography and Assembly of Microbial Communities in Wastewater Treatment Plants in China. <i>Environmental Science & Technology</i> , 2020, 54, 5884-5892.	10.0	34
39	Stimulation of soil respiration by elevated CO ₂ is enhanced under nitrogen limitation in a decade-long grassland study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33317-33324.	7.1	34
40	Involvement of Cytochrome P450 in Pentachlorophenol Transformation in a White Rot Fungus <i>Phanerochaete chrysosporium</i> . <i>PLoS ONE</i> , 2012, 7, e45887.	2.5	34
41	Rapid Response of Eastern Mediterranean Deep Sea Microbial Communities to Oil. <i>Scientific Reports</i> , 2017, 7, 5762.	3.3	27
42	Spatial scaling of forest soil microbial communities across a temperature gradient. <i>Environmental Microbiology</i> , 2018, 20, 3504-3513.	3.8	24
43	The microbial network property as a bio-indicator of antibiotic transmission in the environment. <i>Science of the Total Environment</i> , 2021, 758, 143712.	8.0	24
44	Dynamics of Sediment Microbial Functional Capacity and Community Interaction Networks in an Urbanized Coastal Estuary. <i>Frontiers in Microbiology</i> , 2018, 9, 2731.	3.5	22
45	Temperature determines the diversity and structure of N ₂ O-reducing microbial assemblages. <i>Functional Ecology</i> , 2018, 32, 1867-1878.	3.6	19
46	Ecological insights into assembly processes and network structures of bacterial biofilms in full-scale biologically active carbon filters under ozone implementation. <i>Science of the Total Environment</i> , 2021, 751, 141409.	8.0	16
47	Deterministic and stochastic processes driving the shift in the prokaryotic community composition in wastewater treatment plants of a coastal Chinese city. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 9155-9168.	3.6	15
48	Dynamics of coastal bacterial community average ribosomal RNA operon copy number reflect its response and sensitivity to ammonium and phosphate. <i>Environmental Pollution</i> , 2020, 260, 113971.	7.5	12
49	<i>Flavobacterium phocarum</i> sp. nov., isolated from soils of a seal habitat in Antarctica. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2018, 68, 536-541.	1.7	11
50	Experimental evolution reveals nitrate tolerance mechanisms in <i>Desulfovibrio vulgaris</i> . <i>ISME Journal</i> , 2020, 14, 2862-2876.	9.8	10
51	Soil Microbial Community Assembly and Interactions Are Constrained by Nitrogen and Phosphorus in Broadleaf Forests of Southern China. <i>Forests</i> , 2020, 11, 285.	2.1	10
52	Functional structures of soil microbial community relate to contrasting N ₂ O emission patterns from a highly acidified forest. <i>Science of the Total Environment</i> , 2020, 725, 138504.	8.0	10
53	The call for regional design code from the regional discrepancy of microbial communities in activated sludge. <i>Environmental Pollution</i> , 2021, 273, 116487.	7.5	10
54	Functional microbial community structures and chemical properties indicated mechanisms and potential risks of urban river eco-remediation. <i>Science of the Total Environment</i> , 2022, 803, 149868.	8.0	8

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55	Environmental Water and Sediment Microbial Communities Shape Intestine Microbiota for Host Health: The Central Dogma in an Anthropogenic Aquaculture Ecosystem. <i>Frontiers in Microbiology</i> , 2021, 12, 772149.	3.5	8
56	Sustained Ability of a Natural Microbial Community to Remove Nitrate from Groundwater. <i>Ground Water</i> , 2022, 60, 99-111.	1.3	6
57	Correspondence: Reply to "Analytical flaws in a continental-scale forest soil microbial diversity study". <i>Nature Communications</i> , 2017, 8, 15583.	12.8	4
58	Conversion of marginal land into switchgrass conditionally accrues soil carbon but reduces methane consumption. <i>ISME Journal</i> , 2022, 16, 10-25.	9.8	4
59	Microbial Community Structure and Ecological Networks during Simulation of Diatom Sinking. <i>Microorganisms</i> , 2022, 10, 639.	3.6	4
60	Temporal Dynamics of Bacterial Communities along a Gradient of Disturbance in a U.S. Southern Plains Agroecosystem. <i>MBio</i> , 2022, 13, e0382921.	4.1	4
61	Thermal disruption of soil bacterial assemblages decreases diversity and assemblage similarity. <i>Ecosphere</i> , 2019, 10, e02598.	2.2	2
62	High historical variability weakens the effects of current climate differentiation on microbial community dissimilarity and assembly. <i>Global Change Biology</i> , 2021, 27, 5963-5975.	9.5	2
63	Behaviors of Homologous Antibiotic Resistance Genes in a Cephalosporin WWTP, Subsequent WWTP and the Receiving River. <i>Frontiers in Environmental Science</i> , 2021, 9, .	3.3	2
64	Genetic Basis of Chromate Adaptation and the Role of the Pre-existing Genetic Divergence during an Experimental Evolution Study with <i>Desulfovibrio vulgaris</i> Populations. <i>MSystems</i> , 2021, 6, e0049321.	3.8	0