

Structure and function of the global topsoil microbiome

Nature

560, 233-237

DOI: [10.1038/s41586-018-0386-6](https://doi.org/10.1038/s41586-018-0386-6)

Citation Report

#	ARTICLE	IF	CITATIONS
1	The structure and function of the global citrus rhizosphere microbiome. <i>Nature Communications</i> , 2018, 9, 4894.	5.8	304
2	Antibiotic and pesticide susceptibility and the Anthropocene operating space. <i>Nature Sustainability</i> , 2018, 1, 632-641.	11.5	74
3	Layers of complexity in the ground. <i>Nature Reviews Microbiology</i> , 2018, 16, 582-582.	13.6	0
4	Newly designed 16S rRNA metabarcoding primers amplify diverse and novel archaeal taxa from the environment. <i>Environmental Microbiology Reports</i> , 2019, 11, 487-494.	1.0	91
5	Discrepant gene functional potential and cross-feedings of anammox bacteria <i>Ca. Jettenia caeni</i> and <i>Ca. Brocadia sinica</i> in response to acetate. <i>Water Research</i> , 2019, 165, 114974.	5.3	67
6	Revegetation differentially influences microbial trophic groups in a Qinghai-Tibetan alpine steppe ecosystem. <i>Journal of Basic Microbiology</i> , 2019, 59, 992-1003.	1.8	0
7	Biogeographical patterns in soil bacterial communities across the Arctic region. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	1.3	53
8	A hierarchy of environmental covariates control the global biogeography of soil bacterial richness. <i>Scientific Reports</i> , 2019, 9, 12129.	1.6	16
9	Long-term N fertilization imbalances potential N acquisition and transformations by soil microbes. <i>Science of the Total Environment</i> , 2019, 691, 562-571.	3.9	39
10	Mapping Soil Biodiversity in Europe and the Netherlands. <i>Soil Systems</i> , 2019, 3, 39.	1.0	17
11	The Variation of the Soil Bacterial and Fungal Community Is Linked to Land Use Types in Northeast China. <i>Sustainability</i> , 2019, 11, 3286.	1.6	9
12	Abundance and community composition of comammox bacteria in different ecosystems by a universal primer set. <i>Science of the Total Environment</i> , 2019, 691, 146-155.	3.9	100
13	Effects of magnetite on anaerobic digestion of swine manure: Attention to methane production and fate of antibiotic resistance genes. <i>Bioresource Technology</i> , 2019, 291, 121847.	4.8	53
14	A methodological framework to embrace soil biodiversity. <i>Soil Biology and Biochemistry</i> , 2019, 136, 107536.	4.2	88
15	Cepharanthine Hydrochloride Improves Cisplatin Chemotherapy and Enhances Immunity by Regulating Intestinal Microbes in Mice. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 225.	1.8	30
16	Making the Most of Trait-Based Approaches for Microbial Ecology. <i>Trends in Microbiology</i> , 2019, 27, 814-823.	3.5	49
17	Metabarcoding reveals differences in fungal communities between unflooded versus tidal flat soil in coastal saline ecosystem. <i>Science of the Total Environment</i> , 2019, 690, 911-922.	3.9	18
18	Fungal Diversity: Global Perspective and Ecosystem Dynamics. , 2019, , 83-113.		6

#	ARTICLE	IF	CITATIONS
19	Soil nematode abundance and functional group composition at a global scale. <i>Nature</i> , 2019, 572, 194-198.	13.7	635
20	Non-target Effects of Naphthalene on the Soil Microbial Biomass and Bacterial Communities in the Subalpine Forests of Western China. <i>Scientific Reports</i> , 2019, 9, 9811.	1.6	6
21	The Seasonal Dynamics and the Influence of Human Activities on Campus Outdoor Microbial Communities. <i>Frontiers in Microbiology</i> , 2019, 10, 1579.	1.5	7
22	Soil biota, antimicrobial resistance and planetary health. <i>Environment International</i> , 2019, 131, 105059.	4.8	163
23	Metagenomic sequencing reveals microbial gene catalogue of phosphinothricin-utilized soils in South China. <i>Gene</i> , 2019, 711, 143942.	1.0	22
24	Mycorrhizal types differ in ecophysiology and alter plant nutrition and soil processes. <i>Biological Reviews</i> , 2019, 94, 1857-1880.	4.7	178
25	MIBiG 2.0: a repository for biosynthetic gene clusters of known function. <i>Nucleic Acids Research</i> , 2020, 48, D454-D458.	6.5	351
26	Challenges and Opportunities for Soil Biodiversity in the Anthropocene. <i>Current Biology</i> , 2019, 29, R1036-R1044.	1.8	136
27	Not by Salinity Alone: How Environmental Factors Shape Fungal Communities in Saline Soils. <i>Soil Science Society of America Journal</i> , 2019, 83, 1387-1398.	1.2	15
28	Water availability regulates negative effects of species mixture on soil microbial biomass in boreal forests. <i>Soil Biology and Biochemistry</i> , 2019, 139, 107634.	4.2	11
29	Karst rocky desertification does not erode ectomycorrhizal fungal species richness but alters microbial community structure. <i>Plant and Soil</i> , 2019, 445, 383-396.	1.8	16
30	Deciphering Underlying Drivers of Disease Suppressiveness Against Pathogenic <i>Fusarium oxysporum</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 2535.	1.5	38
31	From the Vineyard to the Winery: How Microbial Ecology Drives Regional Distinctiveness of Wine. <i>Frontiers in Microbiology</i> , 2019, 10, 2679.	1.5	99
32	Microbiome of vineyard soils is shaped by geography and management. <i>Microbiome</i> , 2019, 7, 140.	4.9	94
33	A meta-analysis of global fungal distribution reveals climate-driven patterns. <i>Nature Communications</i> , 2019, 10, 5142.	5.8	232
34	Collinearity in ecological niche modeling: Confusions and challenges. <i>Ecology and Evolution</i> , 2019, 9, 10365-10376.	0.8	204
35	Calcium exerts a strong influence upon phosphohydrolase gene abundance and phylogenetic diversity in soil. <i>Soil Biology and Biochemistry</i> , 2019, 139, 107613.	4.2	14
36	Different ammonia oxidizers are responsible for nitrification in two neutral paddy soils. <i>Soil and Tillage Research</i> , 2019, 195, 104433.	2.6	14

#	ARTICLE	IF	CITATIONS
37	Plantâ€“microbe networks in soil are weakened by centuryâ€“long use of inorganic fertilizers. <i>Microbial Biotechnology</i> , 2019, 12, 1464-1475.	2.0	77
38	Global distribution of earthworm diversity. <i>Science</i> , 2019, 366, 480-485.	6.0	248
39	Bacterial Community Structure Recovery in Reclaimed Coal Mined Soil under Two Vegetative Regimes. <i>Journal of Environmental Quality</i> , 2019, 48, 1029-1037.	1.0	11
40	The global soil community and its influence on biogeochemistry. <i>Science</i> , 2019, 365, .	6.0	586
41	Relative Performance of MinION (Oxford Nanopore Technologies) versus Sequel (Pacific Biosciences) Third-Generation Sequencing Instruments in Identification of Agricultural and Forest Fungal Pathogens. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	68
42	Modeling and Regulation of Higher Alcohol Production through the Combined Effects of the C/N Ratio and Microbial Interaction. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 10694-10701.	2.4	45
43	Aerosol Microbiome over the Mediterranean Sea Diversity and Abundance. <i>Atmosphere</i> , 2019, 10, 440.	1.0	22
44	Above- and belowground linkages shape responses of mountain vegetation to climate change. <i>Science</i> , 2019, 365, 1119-1123.	6.0	135
45	Structural Variations of Bacterial Community Driven by Sphagnum Microhabitat Differentiation in a Subalpine Peatland. <i>Frontiers in Microbiology</i> , 2019, 10, 1661.	1.5	26
46	Host availability drives distributions of fungal endophytes in the imperilled boreal realm. <i>Nature Ecology and Evolution</i> , 2019, 3, 1430-1437.	3.4	91
47	Environmental filtering drives distinct continental atlases of soil archaea between dryland and wetland agricultural ecosystems. <i>Microbiome</i> , 2019, 7, 15.	4.9	116
48	Dynamics of microbial communities and CO ₂ and CH ₄ fluxes in the tundra ecosystems of the changing Arctic. <i>Journal of Microbiology</i> , 2019, 57, 325-336.	1.3	20
49	Trophic Regulations of the Soil Microbiome. <i>Trends in Microbiology</i> , 2019, 27, 771-780.	3.5	232
50	When We Stop Thinking about Microbes as Cells. <i>Journal of Molecular Biology</i> , 2019, 431, 2487-2492.	2.0	9
51	Scientistsâ€™ warning to humanity: microorganisms and climate change. <i>Nature Reviews Microbiology</i> , 2019, 17, 569-586.	13.6	1,138
52	Curtailling Lead Aerosols: Effects of Primary Prevention on Declining Soil Lead and Childrenâ€™s Blood Lead in Metropolitan New Orleans. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2068.	1.2	4
53	Towards PacBioâ€“based panâ€“eukaryote metabarcoding using fullâ€“length ITS sequences. <i>Environmental Microbiology Reports</i> , 2019, 11, 659-668.	1.0	66
54	Microbial Networks in SPRING - Semi-parametric Rank-Based Correlation and Partial Correlation Estimation for Quantitative Microbiome Data. <i>Frontiers in Genetics</i> , 2019, 10, 516.	1.1	72

#	ARTICLE	IF	CITATIONS
55	A few Ascomycota taxa dominate soil fungal communities worldwide. <i>Nature Communications</i> , 2019, 10, 2369.	5.8	341
56	Distinct Biogeography of Different Fungal Guilds and Their Associations With Plant Species Richness in Forest Ecosystems. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	1.1	22
57	Mediterranean grassland soil C-N compound turnover is dependent on rainfall and depth, and is mediated by genomically divergent microorganisms. <i>Nature Microbiology</i> , 2019, 4, 1356-1367.	5.9	170
58	Biogeography and the driving factors affecting forest soil bacteria in an arid area. <i>Science of the Total Environment</i> , 2019, 680, 124-131.	3.9	62
59	Latitudinal variation in soil nematode communities under climate warming-related range-expanding and native plants. <i>Global Change Biology</i> , 2019, 25, 2714-2726.	4.2	45
60	Fungi in the Marine Environment: Open Questions and Unsolved Problems. <i>MBio</i> , 2019, 10, .	1.8	200
61	The effect of environment on the microbiome associated with the roots of a native woody plant under different climate types in China. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 3899-3913.	1.7	11
62	Sunbeam: an extensible pipeline for analyzing metagenomic sequencing experiments. <i>Microbiome</i> , 2019, 7, 46.	4.9	134
63	Fungi in aquatic ecosystems. <i>Nature Reviews Microbiology</i> , 2019, 17, 339-354.	13.6	266
64	Global mismatches in aboveground and belowground biodiversity. <i>Conservation Biology</i> , 2019, 33, 1187-1192.	2.4	103
65	SolidBin: improving metagenome binning with semi-supervised normalized cut. <i>Bioinformatics</i> , 2019, 35, 4229-4238.	1.8	52
66	Fungal Community Structural and Microbial Functional Pattern Changes After Soil Amendments by Oilseed Meals of <i>Jatropha curcas</i> and <i>Camelina sativa</i> : A Microcosm Study. <i>Frontiers in Microbiology</i> , 2019, 10, 537.	1.5	10
67	The number and type of oxygen-utilizing enzymes indicates aerobic vs. anaerobic phenotype. <i>Free Radical Biology and Medicine</i> , 2019, 140, 84-92.	1.3	13
68	Long-Term Organic Farming Manipulated Rhizospheric Microbiome and <i>Bacillus</i> Antagonism Against Pepper Blight (<i>Phytophthora capsici</i>). <i>Frontiers in Microbiology</i> , 2019, 10, 342.	1.5	58
69	Changes of paradigms in agriculture soil microbiology and new challenges in microbial ecology. <i>Acta Oecologica</i> , 2019, 95, 68-73.	0.5	12
70	Consistent trade-offs in fungal trait expression across broad spatial scales. <i>Nature Microbiology</i> , 2019, 4, 846-853.	5.9	94
71	Biosynthetic Gene Content of the "Perfume Lichens" <i>Evernia prunastri</i> and <i>Pseudevernia furfuracea</i> . <i>Molecules</i> , 2019, 24, 203.	1.7	34
72	Community richness of amphibian skin bacteria correlates with bioclimate at the global scale. <i>Nature Ecology and Evolution</i> , 2019, 3, 381-389.	3.4	68

#	ARTICLE	IF	CITATIONS
73	Outlier Detection for Minor Compositional Variations in Taxonomic Abundance Data. <i>Applied Sciences</i> (Switzerland), 2019, 9, 1355.	1.3	3
74	Communities of Soil Nematodes of Various Tundra Phytocenoses Differing in the Development Level of the Shrub Layer. <i>Russian Journal of Ecology</i> , 2019, 50, 526-534.	0.3	3
75	The concurrent decline of soil lead and children's blood lead in New Orleans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22058-22064.	3.3	87
76	Effect of nitrogen application rate on soil fungi community structure in a rice-fish mutualistic system. <i>Scientific Reports</i> , 2019, 9, 16188.	1.6	10
77	Water-soluble phosphorus contributes significantly to shaping the community structure of rhizospheric bacteria in rocky desertification areas. <i>Scientific Reports</i> , 2019, 9, 18408.	1.6	11
78	Climate change effects on plant-soil feedbacks and consequences for biodiversity and functioning of terrestrial ecosystems. <i>Science Advances</i> , 2019, 5, eaaz1834.	4.7	245
79	The home field advantage of modern plant breeding. <i>PLoS ONE</i> , 2019, 14, e0227079.	1.1	18
80	The pitfalls of biodiversity proxies: Differences in richness patterns of birds, trees and understudied diversity across Amazonia. <i>Scientific Reports</i> , 2019, 9, 19205.	1.6	23
81	Cross-Microbial Protection via Priming a Conserved Immune Co-Receptor through Juxtamembrane Phosphorylation in Plants. <i>Cell Host and Microbe</i> , 2019, 26, 810-822.e7.	5.1	58
82	Soil pH is the primary factor driving the distribution and function of microorganisms in farmland soils in northeastern China. <i>Annals of Microbiology</i> , 2019, 69, 1461-1473.	1.1	125
83	Ectomycorrhizal and saprotrophic soil fungal biomass are driven by different factors and vary among broadleaf and coniferous temperate forests. <i>Soil Biology and Biochemistry</i> , 2019, 131, 9-18.	4.2	47
84	Using proteins to study how microbes contribute to soil ecosystem services: The current state and future perspectives of soil metaproteomics. <i>Journal of Proteomics</i> , 2019, 198, 50-58.	1.2	52
85	Mechanisms of plant-soil feedback: interactions among biotic and abiotic drivers. <i>New Phytologist</i> , 2019, 222, 91-96.	3.5	261
86	Mycobiome diversity: high-throughput sequencing and identification of fungi. <i>Nature Reviews Microbiology</i> , 2019, 17, 95-109.	13.6	580
87	Occurrence, fate, and transport of potentially toxic metals (PTMs) in an alkaline rhizosphere soil-plant (Maize, <i>Zea mays</i> L.) system: the role of <i>Bacillus subtilis</i> . <i>Environmental Science and Pollution Research</i> , 2019, 26, 5564-5576.	2.7	6
88	Using a combination of PLFA and DNA-based sequencing analyses to detect shifts in the soil microbial community composition after a simulated spring precipitation in a semi-arid grassland in China. <i>Science of the Total Environment</i> , 2019, 657, 1237-1245.	3.9	38
89	Soil pH dominates elevational diversity pattern for bacteria in high elevation alkaline soils on the Tibetan Plateau. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	1.3	83
90	The developing relationship between the study of fungal communities and community ecology theory. <i>Fungal Ecology</i> , 2019, 39, 393-402.	0.7	15

#	ARTICLE	IF	CITATIONS
91	High-throughput identification and diagnostics of pathogens and pests: Overview and practical recommendations. <i>Molecular Ecology Resources</i> , 2019, 19, 47-76.	2.2	91
92	Carbon content and pH as important drivers of fungal community structure in three Amazon forests. <i>Plant and Soil</i> , 2020, 450, 111-131.	1.8	23
93	Dominant soil bacteria and their ecological attributes across the deserts in northern China. <i>European Journal of Soil Science</i> , 2020, 71, 524-535.	1.8	18
94	Bacterial Succession in Salt Marsh Soils Along a Short-term Invasion Chronosequence of <i>Spartina alterniflora</i> in the Yellow River Estuary, China. <i>Microbial Ecology</i> , 2020, 79, 644-661.	1.4	33
95	Exploring the accuracy of amplicon-based internal transcribed spacer markers for a fungal community. <i>Molecular Ecology Resources</i> , 2020, 20, 170-184.	2.2	49
96	Long-read metabarcoding of the eukaryotic rDNA operon to phylogenetically and taxonomically resolve environmental diversity. <i>Molecular Ecology Resources</i> , 2020, 20, 429-443.	2.2	68
97	Biological controls over the abundances of terrestrial ammonia oxidizers. <i>Global Ecology and Biogeography</i> , 2020, 29, 384-399.	2.7	34
98	Towards an integrative understanding of soil biodiversity. <i>Biological Reviews</i> , 2020, 95, 350-364.	4.7	97
99	Microstructure and mechanical properties of Al-B4C composite at elevated temperature strengthened with in situ Al ₂ O ₃ network. <i>Rare Metals</i> , 2020, 39, 671-679.	3.6	10
100	Response and driving factors of soil microbial diversity related to global nitrogen addition. <i>Land Degradation and Development</i> , 2020, 31, 190-204.	1.8	60
101	High throughput sequencing combined with null model tests reveals specific plant-fungi associations linked to seedling establishment and survival. <i>Journal of Ecology</i> , 2020, 108, 574-585.	1.9	9
102	A new sea surface temperature proxy based on bacterial 3-hydroxy fatty acids. <i>Organic Geochemistry</i> , 2020, 141, 103975.	0.9	13
103	Large-scale patterns of soil antibiotic resistome in Chinese croplands. <i>Science of the Total Environment</i> , 2020, 712, 136418.	3.9	53
104	Soil biodiversity and biogeochemical function in managed ecosystems. <i>Soil Research</i> , 2020, 58, 1.	0.6	28
105	Distinct factors drive the assembly of quinoa-associated microbiomes along elevation. <i>Plant and Soil</i> , 2020, 448, 55-69.	1.8	21
106	Root microbiota assembly and adaptive differentiation among European <i>Arabidopsis</i> populations. <i>Nature Ecology and Evolution</i> , 2020, 4, 122-131.	3.4	157
107	Ecoholobiont: A new concept to identify drivers of host-associated microorganisms. <i>Environmental Microbiology</i> , 2020, 22, 564-567.	1.8	51
108	Structural changes of the microplankton community following a pulse of inorganic nitrogen in a eutrophic river. <i>Limnology and Oceanography</i> , 2020, 65, S264.	1.6	5

#	ARTICLE	IF	CITATIONS
109	Mechanisms of soil bacterial and fungal community assembly differ among and within islands. <i>Environmental Microbiology</i> , 2020, 22, 1559-1571.	1.8	47
110	Long-term nitrogen application decreases the abundance and copy number of predatory myxobacteria and alters the myxobacterial community structure in the soil. <i>Science of the Total Environment</i> , 2020, 708, 135114.	3.9	28
111	Mountain biodiversity and ecosystem functions: interplay between geology and contemporary environments. <i>ISME Journal</i> , 2020, 14, 931-944.	4.4	64
112	Biogeographical distribution of bacterial communities in saline agricultural soil. <i>Geoderma</i> , 2020, 361, 114095.	2.3	39
113	Deciphering belowground nitrifier assemblages with elevational soil sampling in a subtropical forest ecosystem (Mount Lu, China). <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	8
114	Soil physiology discriminates between no-till agricultural soils with different crop systems on winter season. <i>Soil Use and Management</i> , 2020, 36, 571-580.	2.6	4
115	A cascading influence of calcium carbonate on the biogeochemistry and pedogenic trajectories of subalpine soils, Switzerland. <i>Geoderma</i> , 2020, 361, 114065.	2.3	43
116	Microbial regulation of natural antibiotic resistance: Understanding the protist-bacteria interactions for evolution of soil resistome. <i>Science of the Total Environment</i> , 2020, 705, 135882.	3.9	63
117	Structural and Functional Dynamics of Soil Microbes following Spruce Beetle Infestation. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	14
118	Knowledge sharing and adoption behaviour: An imperative to promote sustainable soil use and management. <i>Soil Use and Management</i> , 2020, 36, 557-560.	2.6	2
119	Global diversity of microbial communities in marine sediment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27587-27597.	3.3	174
120	Regional-Scale In-Depth Analysis of Soil Fungal Diversity Reveals Strong pH and Plant Species Effects in Northern Europe. <i>Frontiers in Microbiology</i> , 2020, 11, 1953.	1.5	126
121	Alpha-, beta-, and gamma-diversity of bacteria varies across habitats. <i>PLoS ONE</i> , 2020, 15, e0233872.	1.1	105
122	Keystone metabolites of crop rhizosphere microbiomes. <i>Current Biology</i> , 2020, 30, R1131-R1137.	1.8	28
123	Recent trends in detecting, controlling, and detoxifying of patulin mycotoxin using biotechnology methods. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2020, 19, 2447-2472.	5.9	45
124	Global patterns and determinants of bacterial communities associated with ectomycorrhizal root tips of <i>Alnus</i> species. <i>Soil Biology and Biochemistry</i> , 2020, 148, 107923.	4.2	5
125	Stochastic Dispersal Rather Than Deterministic Selection Explains the Spatio-Temporal Distribution of Soil Bacteria in a Temperate Grassland. <i>Frontiers in Microbiology</i> , 2020, 11, 1391.	1.5	36
126	Additives affect the distribution of metabolic profile, microbial communities and antibiotic resistance genes in high-moisture sweet corn kernel silage. <i>Bioresource Technology</i> , 2020, 315, 123821.	4.8	33

#	ARTICLE	IF	CITATIONS
127	GlobalFungi, a global database of fungal occurrences from high-throughput-sequencing metabarcoding studies. <i>Scientific Data</i> , 2020, 7, 228.	2.4	92
128	Diversity and Geographic Distribution of Ligninolytic Fungi Associated With <i>Castanopsis sieboldii</i> Leaf Litter in Japan. <i>Frontiers in Microbiology</i> , 2020, 11, 595427.	1.5	7
129	Volcanic deposits affect soil nitrogen dynamics and fungal bacterial dominance in temperate forests. <i>Soil Biology and Biochemistry</i> , 2020, 150, 108011.	4.2	9
130	Soil Bacterial and Fungal Richness Forecast Patterns of Early Pine Litter Decomposition. <i>Frontiers in Microbiology</i> , 2020, 11, 542220.	1.5	15
131	Nano-Sized Polystyrene at 1Âµg/L Concentrations Does Not Show Strong Disturbance on the Freshwater Microbial Community. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2021, 107, 610-615.	1.3	8
132	Effects of plant diversity and soil properties on soil fungal community structure with secondary succession in the <i>Pinus yunnanensis</i> forest. <i>Geoderma</i> , 2020, 379, 114646.	2.3	46
133	Temperature-Induced Annual Variation in Microbial Community Changes and Resulting Metabolome Shifts in a Controlled Fermentation System. <i>MSystems</i> , 2020, 5, .	1.7	47
134	Diversity and structure of soil microbiota of the Jinsha earthen relic. <i>PLoS ONE</i> , 2020, 15, e0236165.	1.1	6
135	The vertical distribution and control of microbial necromass carbon in forest soils. <i>Global Ecology and Biogeography</i> , 2020, 29, 1829-1839.	2.7	82
136	Advances in Plant Microbiome and Sustainable Agriculture. <i>Microorganisms for Sustainability</i> , 2020, , .	0.4	10
137	Seasonal variations of soil bacterial communities in Suaeda wetland of Shuangtaizi River estuary, Northeast China. <i>Journal of Environmental Sciences</i> , 2020, 97, 45-53.	3.2	24
138	Response of Soil Respiration and Its Components to Warming and Dominant Species Removal along an Elevation Gradient in Alpine Meadow of the Qinghai-Tibetan Plateau. <i>Environmental Science & Technology</i> , 2020, 54, 10472-10482.	4.6	15
139	CeO ₂ Nanoparticles Regulate the Propagation of Antibiotic Resistance Genes by Altering Cellular Contact and Plasmid Transfer. <i>Environmental Science & Technology</i> , 2020, 54, 10012-10021.	4.6	73
140	Microbial macroecology: In search of mechanisms governing microbial biogeographic patterns. <i>Global Ecology and Biogeography</i> , 2020, 29, 1870-1886.	2.7	55
141	Fungal Community in Antarctic Soil Along the Retreating Collins Glacier (Fildes Peninsula, King) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 18	1.6	16
142	Blind spots in global soil biodiversity and ecosystem function research. <i>Nature Communications</i> , 2020, 11, 3870.	5.8	192
143	Population turnover promotes fungal stability in a semi-arid grassland under precipitation shifts. <i>Journal of Plant Ecology</i> , 2020, 13, 499-509.	1.2	8
144	Methods and approaches to advance soil macroecology. <i>Global Ecology and Biogeography</i> , 2020, 29, 1674-1690.	2.7	28

#	ARTICLE	IF	CITATIONS
145	Local community assembly mechanisms shape soil bacterial β^2 diversity patterns along a latitudinal gradient. <i>Nature Communications</i> , 2020, 11, 5428.	5.8	45
146	Application of bio-organic fertilizer, not biochar, in degraded red soil improves soil nutrients and plant growth. <i>Rhizosphere</i> , 2020, 16, 100264.	1.4	41
147	Uncovering the genomic potential of the Amazon River microbiome to degrade rainforest organic matter. <i>Microbiome</i> , 2020, 8, 151.	4.9	18
148	Glacier retreat in the High Arctic: opportunity or threat for ectomycorrhizal diversity?. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	5
149	Greater topoclimatic control of above- versus below-ground communities. <i>Global Change Biology</i> , 2020, 26, 6715-6728.	4.2	11
150	Contrasting Responses of Protistan Plant Parasites and Phagotrophs to Ecosystems, Land Management and Soil Properties. <i>Frontiers in Microbiology</i> , 2020, 11, 1823.	1.5	27
151	The influence of soil age on ecosystem structure and function across biomes. <i>Nature Communications</i> , 2020, 11, 4721.	5.8	47
152	Soil Heating at High Temperatures and Different Water Content: Effects on the Soil Microorganisms. <i>Geosciences (Switzerland)</i> , 2020, 10, 355.	1.0	13
153	Fecal Pollution Drives Antibiotic Resistance and Class 1 Integron Abundance in Aquatic Environments of the Bolivian Andes Impacted by Mining and Wastewater. <i>Microorganisms</i> , 2020, 8, 1122.	1.6	21
154	Bacterial community dynamics across developmental stages of fungal fruiting bodies. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	17
155	Organism body size structures the soil microbial and nematode community assembly at a continental and global scale. <i>Nature Communications</i> , 2020, 11, 6406.	5.8	113
156	A Previously Undescribed Helotialean Fungus That Is Superabundant in Soil Under Maritime Antarctic Higher Plants. <i>Frontiers in Microbiology</i> , 2020, 11, 615608.	1.5	4
157	Distinct Community Assembly Processes of Abundant and Rare Soil Bacteria in Coastal Wetlands along an Inundation Gradient. <i>MSystems</i> , 2020, 5, .	1.7	48
158	A low-cost pipeline for soil microbiome profiling. <i>MicrobiologyOpen</i> , 2020, 9, e11133.	1.2	8
159	Metagenomic Systems Biology. , 2020, , .		0
160	The Earth's Microbiome: Significance in Sustainable Development and Impact of Climate Changes. , 2020, , 115-139.		0
161	Cyanobacterial blooms contribute to the diversity of antibiotic-resistance genes in aquatic ecosystems. <i>Communications Biology</i> , 2020, 3, 737.	2.0	66
162	NetCoMi: network construction and comparison for microbiome data in R. <i>Briefings in Bioinformatics</i> , 2021, 22, .	3.2	222

#	ARTICLE	IF	CITATIONS
163	Systematic evaluation of supervised machine learning for sample origin prediction using metagenomic sequencing data. <i>Biology Direct</i> , 2020, 15, 29.	1.9	11
164	Soil bacterial community varies but fungal community stabilizes along five vertical climate zones. <i>Catena</i> , 2020, 195, 104841.	2.2	32
165	Soil bacterial taxonomic diversity is critical to maintaining the plant productivity. <i>Environment International</i> , 2020, 140, 105766.	4.8	114
166	State-of-the-art methodologies to identify antimicrobial secondary metabolites in soil bacterial communities-A review. <i>Soil Biology and Biochemistry</i> , 2020, 147, 107838.	4.2	28
167	Geo-distribution pattern of microbial carbon cycling genes responsive to petroleum contamination in continental horizontal oilfields. <i>Science of the Total Environment</i> , 2020, 731, 139188.	3.9	8
168	Archaea in boreal Swedish lakes are diverse, dominated by Woesearchaeota and follow deterministic community assembly. <i>Environmental Microbiology</i> , 2020, 22, 3158-3171.	1.8	19
169	Diversity and abundance of resistome in rhizosphere soil. <i>Science China Life Sciences</i> , 2020, 63, 1946-1949.	2.3	1
170	The ecology of nanomaterials in agroecosystems. , 2020, , 313-355.		3
171	Vegetation rehabilitation increases soil enzyme activities in degraded land via carbon supply and nitrogen retention. <i>European Journal of Soil Biology</i> , 2020, 98, 103186.	1.4	12
172	Soil Chemical and Microbiological Properties Are Changed by Long-Term Chemical Fertilizers That Limit Ecosystem Functioning. <i>Microorganisms</i> , 2020, 8, 694.	1.6	79
173	Fruitbody chemistry underlies the structure of endofungal bacterial communities across fungal guilds and phylogenetic groups. <i>ISME Journal</i> , 2020, 14, 2131-2141.	4.4	20
174	Intensive land uses modify assembly process and potential metabolic function of edaphic bacterial communities in the Yellow River Delta, China. <i>Science of the Total Environment</i> , 2020, 720, 137713.	3.9	11
175	Sustainable soil use and management: An interdisciplinary and systematic approach. <i>Science of the Total Environment</i> , 2020, 729, 138961.	3.9	138
176	Microbial functional attributes, rather than taxonomic attributes, drive top soil respiration, nitrification and denitrification processes. <i>Science of the Total Environment</i> , 2020, 734, 139479.	3.9	56
177	Vertical distribution of microbial communities and their response to metal(loid)s along the vadose zone—aquifer sediments. <i>Journal of Applied Microbiology</i> , 2020, 129, 1657-1673.	1.4	4
178	The Plant Microbiome: From Ecology to Reductionism and Beyond. <i>Annual Review of Microbiology</i> , 2020, 74, 81-100.	2.9	225
179	Human milk fungi: environmental determinants and inter-kingdom associations with milk bacteria in the CHILD Cohort Study. <i>BMC Microbiology</i> , 2020, 20, 146.	1.3	28
180	Effects of historical legacies on soil nematode communities are mediated by contemporary environmental conditions. <i>Ecology and Evolution</i> , 2020, 10, 6732-6740.	0.8	5

#	ARTICLE	IF	CITATIONS
181	Disentangling Large- and Small-Scale Abiotic and Biotic Factors Shaping Soil Microbial Communities in an Alpine Cushion Plant System. <i>Frontiers in Microbiology</i> , 2020, 11, 925.	1.5	25
182	Moss biocrusts buffer the negative effects of karst rocky desertification on soil properties and soil microbial richness. <i>Plant and Soil</i> , 2022, 475, 153-168.	1.8	26
183	Microbiomes of soils. , 2020, , 29-54.		2
184	Spatial Variation in Soil Fungal Communities across Paddy Fields in Subtropical China. <i>MSystems</i> , 2020, 5, .	1.7	56
185	A framework to bridge scales in distribution modeling of soil microbiota. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	8
186	A global database of soil nematode abundance and functional group composition. <i>Scientific Data</i> , 2020, 7, 103.	2.4	46
187	Nitrogen release from five organic fertilizers commonly used in greenhouse organic horticulture with contrasting effects on bacterial communities. <i>Canadian Journal of Soil Science</i> , 2020, , 1-16.	0.5	14
188	<i>Burkholderia insecticola</i> triggers midgut closure in the bean bug <i>Riptortus pedestris</i> to prevent secondary bacterial infections of midgut crypts. <i>ISME Journal</i> , 2020, 14, 1627-1638.	4.4	50
189	From bag-of-genes to bag-of-genomes: metabolic modelling of communities in the era of metagenome-assembled genomes. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 1722-1734.	1.9	52
190	Temperature and salinity drive comammox community composition in mangrove ecosystems across southeastern China. <i>Science of the Total Environment</i> , 2020, 742, 140456.	3.9	47
191	Expansion of shrubs could result in local loss of soil bacterial richness in Western Greenland. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	5
192	Microbial communities from arid environments on a global scale. A systematic review. <i>Biological Research</i> , 2020, 53, 29.	1.5	30
193	Effect of climate change on microbial diversity and its functional attributes. , 2020, , 315-331.		2
194	Host-associated microbiomes are predicted by immune system complexity and climate. <i>Genome Biology</i> , 2020, 21, 23.	3.8	54
195	Think global, act local: The small-scale environment mainly influences microbial community development and function in lake sediment. <i>Limnology and Oceanography</i> , 2020, 65, S88.	1.6	17
196	Microbial Ecology Meets Macroecology: Developing a Process-Based Understanding of the Microbial Role in Global Ecosystems. <i>Bulletin of the Ecological Society of America</i> , 2020, 101, e01645.	0.2	5
197	A metagenomic assessment of microbial eukaryotic diversity in the global ocean. <i>Molecular Ecology Resources</i> , 2020, 20, 718-731.	2.2	70
198	Similar drivers but different effects lead to distinct ecological patterns of soil bacterial and archaeal communities. <i>Soil Biology and Biochemistry</i> , 2020, 144, 107759.	4.2	83

#	ARTICLE	IF	CITATIONS
199	A quantitative assessment of amino sugars in soil profiles. <i>Soil Biology and Biochemistry</i> , 2020, 143, 107762.	4.2	64
200	Decoupled diversity patterns in bacteria and fungi across continental forest ecosystems. <i>Soil Biology and Biochemistry</i> , 2020, 144, 107763.	4.2	78
201	Game of Tenure: the role of "hidden" citations on researchers' ranking in <i>Ecology</i> . <i>Frontiers of Biogeography</i> , 2020, 12, .	0.8	0
202	Nutrient drip irrigation for refractory hydrocarbon removal and microbial community shift in a historically petroleum-contaminated soil. <i>Science of the Total Environment</i> , 2020, 713, 136331.	3.9	30
203	The global-scale distributions of soil protists and their contributions to belowground systems. <i>Science Advances</i> , 2020, 6, eaax8787.	4.7	263
204	Rare Species Shift the Structure of Bacterial Communities Across Sphagnum Compartments in a Subalpine Peatland. <i>Frontiers in Microbiology</i> , 2019, 10, 3138.	1.5	18
205	Monitoring Fungal Communities With the Global Spore Sampling Project. <i>Frontiers in Ecology and Evolution</i> , 2020, 7, .	1.1	25
206	Spatial and temporal turnover of soil microbial communities is not linked to function in a primary tropical forest. <i>Ecology</i> , 2020, 101, e02985.	1.5	34
207	Interannual climate variability and altered precipitation influence the soil microbial community structure in a Tibetan Plateau grassland. <i>Science of the Total Environment</i> , 2020, 714, 136794.	3.9	69
208	Soil bacterial diversity mediated by microscale aqueous-phase processes across biomes. <i>Nature Communications</i> , 2020, 11, 116.	5.8	78
209	Insight into the assembly of root-associated microbiome in the medicinal plant <i>Polygonum cuspidatum</i> . <i>Industrial Crops and Products</i> , 2020, 145, 112163.	2.5	38
210	Patterns of local, intercontinental and interseasonal variation of soil bacterial and eukaryotic microbial communities. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	19
211	Geographic patterns of insect diversity across China's nature reserves: The roles of niche conservatism and range overlapping. <i>Ecology and Evolution</i> , 2020, 10, 3305-3317.	0.8	9
212	Exchangeable cations and pH drive diversity and functionality of fungal communities in biological soil crusts from coastal sites of Victoria Land, Antarctica. <i>Fungal Ecology</i> , 2020, 45, 100923.	0.7	24
213	Bacterial dispersal and biogeography as underappreciated influences on phytobiomes. <i>Current Opinion in Plant Biology</i> , 2020, 56, 37-46.	3.5	5
214	Revealing structure and assembly for rhizophyte-endophyte diazotrophic community in mangrove ecosystem after introduced <i>Sonneratia apetala</i> and <i>Laguncularia racemosa</i> . <i>Science of the Total Environment</i> , 2020, 721, 137807.	3.9	35
215	Plant nutrient acquisition strategies drive topsoil microbiome structure and function. <i>New Phytologist</i> , 2020, 227, 1189-1199.	3.5	96
216	Similar but Not Identical Resuscitation Trajectories of the Soil Microbial Community Based on Either DNA or RNA after Flooding. <i>Agronomy</i> , 2020, 10, 502.	1.3	8

#	ARTICLE	IF	CITATIONS
217	Distribution pattern of antibiotic resistance genes and bacterial community in agricultural soil samples of Wuliangshuai watershed. <i>China. Agriculture, Ecosystems and Environment</i> , 2020, 295, 106884.	2.5	20
218	Island biogeography of soil bacteria and fungi: similar patterns, but different mechanisms. <i>ISME Journal</i> , 2020, 14, 1886-1896.	4.4	86
219	Different community assembly mechanisms underlie similar biogeography of bacteria and microeukaryotes in Tibetan lakes. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	43
220	High manure load reduces bacterial diversity and network complexity in a paddy soil under crop rotations. <i>Soil Ecology Letters</i> , 2020, 2, 104-119.	2.4	43
221	Abundant fungi adapt to broader environmental gradients than rare fungi in agricultural fields. <i>Global Change Biology</i> , 2020, 26, 4506-4520.	4.2	260
222	Niche width of above- and below-ground organisms varied in predicting biodiversity profiling along a latitudinal gradient. <i>Molecular Ecology</i> , 2020, 29, 1890-1902.	2.0	16
223	Effects of Spatial Variability and Relic DNA Removal on the Detection of Temporal Dynamics in Soil Microbial Communities. <i>MBio</i> , 2020, 11, .	1.8	70
224	Soil Microbial Biogeography in a Changing World: Recent Advances and Future Perspectives. <i>MSystems</i> , 2020, 5, .	1.7	84
225	The preceding root system drives the composition and function of the rhizosphere microbiome. <i>Genome Biology</i> , 2020, 21, 89.	3.8	61
226	The distinct responses of bacteria and fungi in different-sized soil aggregates under different management practices. <i>European Journal of Soil Science</i> , 2021, 72, 1177-1189.	1.8	10
227	Dynamics of the antibiotic resistome in agricultural soils amended with different sources of animal manures over three consecutive years. <i>Journal of Hazardous Materials</i> , 2021, 401, 123399.	6.5	57
228	Meta-Prism: Ultra-fast and highly accurate microbial community structure search utilizing dual indexing and parallel computation. <i>Briefings in Bioinformatics</i> , 2021, 22, 557-567.	3.2	10
229	Root microbiome assembly of <i>Asplenium hyperaccumulatore</i> <i>Pteris vittata</i> and its efficacy in arsenic requisition. <i>Environmental Microbiology</i> , 2021, 23, 1959-1971.	1.8	25
230	Biotic interactions with mycorrhizal systems as extended nutrient acquisition strategies shaping forest soil communities and functions. <i>Basic and Applied Ecology</i> , 2021, 50, 25-42.	1.2	19
231	Treated wastewater irrigation promotes the spread of antibiotic resistance into subsoil pore-water. <i>Environment International</i> , 2021, 146, 106190.	4.8	26
232	Community succession of the grapevine fungal microbiome in the annual growth cycle. <i>Environmental Microbiology</i> , 2021, 23, 1842-1857.	1.8	69
233	Soil microbial community composition and function are closely associated with soil organic matter chemistry along a latitudinal gradient. <i>Geoderma</i> , 2021, 383, 114744.	2.3	32
234	Changes in community structure and metabolic function of soil bacteria depending on the type restoration processing in the degraded alpine grassland ecosystems in Northern Tibet. <i>Science of the Total Environment</i> , 2021, 755, 142619.	3.9	15

#	ARTICLE	IF	CITATIONS
235	History of petroleum disturbance triggering the depth-resolved assembly process of microbial communities in the vadose zone. <i>Journal of Hazardous Materials</i> , 2021, 402, 124060.	6.5	27
236	Global direct nitrous oxide emissions from the bioenergy crop sugarcane (<i>Saccharum</i> spp.) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	3.9	30
237	Salinity controls soil microbial community structure and function in coastal estuarine wetlands. <i>Environmental Microbiology</i> , 2021, 23, 1020-1037.	1.8	109
238	Towards meaningful scales in ecosystem microbiome research. <i>Environmental Microbiology</i> , 2021, 23, 1-4.	1.8	10
239	Resilience of rhizosphere microbial predators and their prey communities after an extreme heat event. <i>Functional Ecology</i> , 2021, 35, 216-225.	1.7	13
240	Soil salinity, pH, and indigenous bacterial community interactively influence the survival of <i>E. coli</i> O157:H7 revealed by multivariate statistics. <i>Environmental Science and Pollution Research</i> , 2021, 28, 5575-5586.	2.7	5
241	The response of ammonia oxidizing archaea and bacteria in relation to heterotrophs under different carbon and nitrogen amendments in two agricultural soils. <i>Applied Soil Ecology</i> , 2021, 158, 103812.	2.1	26
242	The evolution of biogeochemistry: revisited. <i>Biogeochemistry</i> , 2021, 154, 141-181.	1.7	19
243	Fungal communities associated with roots of two closely related Juglandaceae species with a disjunct distribution in the tropics. <i>Fungal Ecology</i> , 2021, 50, 101023.	0.7	3
244	Metagenomic assessment of the global diversity and distribution of bacteria and fungi. <i>Environmental Microbiology</i> , 2021, 23, 316-326.	1.8	42
245	Distinct assembly processes shape bacterial communities along unsaturated, groundwater fluctuated, and saturated zones. <i>Science of the Total Environment</i> , 2021, 761, 143303.	3.9	30
246	Deterministic selection dominates microbial community assembly in termite mounds. <i>Soil Biology and Biochemistry</i> , 2021, 152, 108073.	4.2	60
247	PStrain: an iterative microbial strains profiling algorithm for shotgun metagenomic sequencing data. <i>Bioinformatics</i> , 2021, 36, 5499-5506.	1.8	14
248	Artificial construction of the biocoenosis of deep-sea ecosystem via seeping methane. <i>Environmental Microbiology</i> , 2021, 23, 1186-1198.	1.8	9
249	Microbial metabolic efficiency and community stability in high and low fertility soils following wheat residue addition. <i>Applied Soil Ecology</i> , 2021, 159, 103848.	2.1	14
250	Alkalinity gradients in grasslands alter soil bacterial community composition and function. <i>Soil Science Society of America Journal</i> , 2021, 85, 286-298.	1.2	3
251	Revealing hidden drivers of macrofungal species richness by analyzing fungal guilds in temperate forests, West Hungary. <i>Community Ecology</i> , 2021, 22, 13-28.	0.5	5
252	Corn-soybean rotation, tillage, and foliar fungicides: Impacts on yield and soil fungi. <i>Field Crops Research</i> , 2021, 262, 108030.	2.3	16

#	ARTICLE	IF	CITATIONS
253	SCycDB: A curated functional gene database for metagenomic profiling of sulphur cycling pathways. <i>Molecular Ecology Resources</i> , 2021, 21, 924-940.	2.2	52
254	Influence of the neonicotinoid insecticide thiamethoxam on soil bacterial community composition and metabolic function. <i>Journal of Hazardous Materials</i> , 2021, 405, 124275.	6.5	40
255	Climate and land cover shape the fungal community structure in topsoil. <i>Science of the Total Environment</i> , 2021, 751, 141721.	3.9	22
256	Incorporating marine macrophytes in plant-soil feedbacks: Emerging evidence and opportunities to advance the field. <i>Journal of Ecology</i> , 2021, 109, 614-625.	1.9	2
257	A walk on the dirt: soil microbial forensics from ecological theory to the crime lab. <i>FEMS Microbiology Reviews</i> , 2021, 45, .	3.9	4
258	Potential complementary functions among bacteria, fungi, and archaea involved in carbon cycle during reversal of desertification. <i>Land Degradation and Development</i> , 2021, 32, 1581-1587.	1.8	10
259	Polycyclic aromatic hydrocarbon and n-alkane pollution characteristics and structural and functional perturbations to the microbial community: a case-study of historically petroleum-contaminated soil. <i>Environmental Science and Pollution Research</i> , 2021, 28, 10589-10602.	2.7	23
260	Effects of burning harvested residues on the archaeal and bacterial communities of <i>Eucalyptus urophylla</i> substituting native vegetation. <i>Applied Soil Ecology</i> , 2021, 158, 103796.	2.1	17
261	Testosterone amendment alters metabolite profiles of the soil microbial community. <i>Environmental Pollution</i> , 2021, 272, 115928.	3.7	15
262	Active ammonia-oxidizing bacteria and archaea in wastewater treatment systems. <i>Journal of Environmental Sciences</i> , 2021, 102, 273-282.	3.2	16
263	Moisture effects on the active prokaryotic communities in a saline soil unraveled by 18O-informed metagenomics. <i>Journal of Soils and Sediments</i> , 2021, 21, 430-440.	1.5	6
264	Host selection shapes crop microbiome assembly and network complexity. <i>New Phytologist</i> , 2021, 229, 1091-1104.	3.5	349
265	Microbial natural product databases: moving forward in the multi-omics era. <i>Natural Product Reports</i> , 2021, 38, 264-278.	5.2	51
266	Grazing and mining influence the population of arbuscular mycorrhizal fungi around the opencast coal mine pit. <i>Environmental Science and Pollution Research</i> , 2021, 28, 21425-21436.	2.7	1
267	Methane recovery from acidic tofu wastewater using an anaerobic fixed-bed reactor with bamboo as the biofilm carrier. <i>Journal of Material Cycles and Waste Management</i> , 2021, 23, 537-547.	1.6	6
268	Advances in decomposing complex metabolite mixtures using substructure- and network-based computational metabolomics approaches. <i>Natural Product Reports</i> , 2021, 38, 1967-1993.	5.2	78
269	Linking Bacterial Communities Associated with the Environment and the Ecosystem Engineer <i>Orchestia gammarellus</i> at Contrasting Salt Marsh Elevations. <i>Microbial Ecology</i> , 2021, 82, 537-548.	1.4	3
270	Freshwater monitoring by nanopore sequencing. <i>ELife</i> , 2021, 10, .	2.8	69

#	ARTICLE	IF	CITATIONS
271	Merging Fungal and Bacterial Community Profiles via an Internal Control. <i>Microbial Ecology</i> , 2021, 82, 484-497.	1.4	5
273	Metabarcoding of Soil Fungal Communities Associated with Alpine Field-Grown Saffron (<i>Crocus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 13	1.5	13
274	Soil bacterial communities vary more by season than with over two decades of experimental warming in Arctic tussock tundra. <i>Elementa</i> , 2021, 9, .	1.1	5
275	Mulching films affecting soil bacterial and fungal communities in a drip-irrigated potato soil. <i>Revista Brasileira De Ciencia Do Solo</i> , 2021, 45, .	0.5	2
276	The confluence of big data and evolutionary genome mining for the discovery of natural products. <i>Natural Product Reports</i> , 2021, 38, 2024-2040.	5.2	30
277	Pathobiome and microbial communities associated with forest tree root diseases. , 2021, , 277-292.		6
278	Re-purposing software for functional characterization of the microbiome. <i>Microbiome</i> , 2021, 9, 4.	4.9	7
279	BiG-SLiCE: A highly scalable tool maps the diversity of 1.2 million biosynthetic gene clusters. <i>GigaScience</i> , 2021, 10, .	3.3	98
280	Small-Scale Variability in Bacterial Community Structure in Different Soil Types. <i>Microbial Ecology</i> , 2021, 82, 470-483.	1.4	5
281	<i>Potentilla anserina</i> L. developmental changes affect the rhizosphere prokaryotic community. <i>Scientific Reports</i> , 2021, 11, 2838.	1.6	4
282	Interspecies bacterial competition regulates community assembly in the <i>C. elegans</i> intestine. <i>ISME Journal</i> , 2021, 15, 2131-2145.	4.4	73
283	Hierarchical spatial sampling reveals factors influencing arbuscular mycorrhizal fungus diversity in Côte d'Ivoire cocoa plantations. <i>Mycorrhiza</i> , 2021, 31, 289-300.	1.3	7
284	Balance between geographic, soil, and host tree parameters to shape soil microbiomes associated to clonal oak varies across soil zones along a European North-South transect. <i>Environmental Microbiology</i> , 2021, 23, 2274-2292.	1.8	3
285	Global analysis reveals an environmentally driven latitudinal pattern in mushroom size across fungal species. <i>Ecology Letters</i> , 2021, 24, 658-667.	3.0	11
286	Influence of Spatial Scale on Structure of Soil Bacterial Communities across an Arctic Landscape. <i>Applied and Environmental Microbiology</i> , 2021, 87, .	1.4	6
287	Global projections of the soil microbiome in the Anthropocene. <i>Global Ecology and Biogeography</i> , 2021, 30, 987-999.	2.7	43
288	Soil Bacterial Communities and Diversity in Alpine Grasslands on the Tibetan Plateau Based on 16S rRNA Gene Sequencing. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	1.1	18
289	Soil properties and root traits jointly shape fine-scale spatial patterns of bacterial community and metabolic functions within a Korean pine forest. <i>PeerJ</i> , 2021, 9, e10902.	0.9	5

#	ARTICLE	IF	CITATIONS
290	Biogeographical patterns and mechanisms of microbial community assembly that underlie successional biocrusts across northern China. <i>Npj Biofilms and Microbiomes</i> , 2021, 7, 15.	2.9	24
292	The influence of intraspecific sequence variation during DNA metabarcoding: A case study of eleven fungal species. <i>Molecular Ecology Resources</i> , 2021, 21, 1141-1148.	2.2	39
293	DNA Metabarcoding for the Characterization of Terrestrial Microbiota—Pitfalls and Solutions. <i>Microorganisms</i> , 2021, 9, 361.	1.6	42
294	Ammonia-oxidizing archaea are dominant over comammox in soil nitrification under long-term nitrogen fertilization. <i>Journal of Soils and Sediments</i> , 2021, 21, 1800-1814.	1.5	15
295	Soil microbial diversity—biomass relationships are driven by soil carbon content across global biomes. <i>ISME Journal</i> , 2021, 15, 2081-2091.	4.4	186
296	Soil depth matters: shift in composition and inter-kingdom co-occurrence patterns of microorganisms in forest soils. <i>FEMS Microbiology Ecology</i> , 2021, 97, .	1.3	43
297	Resilience of agricultural soils to antibiotic resistance genes introduced by agricultural management practices. <i>Science of the Total Environment</i> , 2021, 756, 143699.	3.9	19
298	Crop Rotation With Cress Increases Cucumber Yields by Regulating the Composition of the Rhizosphere Soil Microbial Community. <i>Frontiers in Microbiology</i> , 2021, 12, 631882.	1.5	19
299	Divergent responses of the soil bacteria community to multi-level nitrogen enrichment in temperate grasslands under different degrees of degradation. <i>Land Degradation and Development</i> , 2021, 32, 3524-3535.	1.8	13
300	Emerging strategies for precision microbiome management in diverse agroecosystems. <i>Nature Plants</i> , 2021, 7, 256-267.	4.7	137
301	Climate change and its implications for food safety and spoilage. <i>Trends in Food Science and Technology</i> , 2022, 126, 142-152.	7.8	48
302	Global soil microbial biomass decreases with aridity and land-use intensification. <i>Global Ecology and Biogeography</i> , 2021, 30, 1056-1069.	2.7	27
303	Efficient and stable metabarcoding sequencing data using a DNBSEQ-G400 sequencer validated by comprehensive community analyses. <i>GigaByte</i> , 0, 2021, 1-15.	0.0	10
305	Soil Biogeochemical Cycle Couplings Inferred from a Function-Taxon Network. <i>Research</i> , 2021, 2021, 7102769.	2.8	30
307	Environmental and Anthropogenic Factors Shape Major Bacterial Community Types Across the Complex Mountain Landscape of Switzerland. <i>Frontiers in Microbiology</i> , 2021, 12, 581430.	1.5	13
308	Contribution of soil microbial necromass to SOC stocks during vegetation recovery in a subtropical karst ecosystem. <i>Science of the Total Environment</i> , 2021, 761, 143945.	3.9	31
309	Elevated CO ₂ shifts soil microbial communities from <i>K</i> - to <i>r</i> -strategists. <i>Global Ecology and Biogeography</i> , 2021, 30, 961-972.	2.7	32
310	Fungal Diversity and Community Assembly of Ectomycorrhizal Fungi Associated With Five Pine Species in Inner Mongolia, China. <i>Frontiers in Microbiology</i> , 2021, 12, 646821.	1.5	9

#	ARTICLE	IF	CITATIONS
311	Environmental adaptation is stronger for abundant rather than rare microorganisms in wetland soils from the Qinghai-Tibet Plateau. <i>Molecular Ecology</i> , 2021, 30, 2390-2403.	2.0	85
313	Temperature and pH define the realised niche space of arbuscular mycorrhizal fungi. <i>New Phytologist</i> , 2021, 231, 763-776.	3.5	126
314	Shifts in root and soil chemistry drive the assembly of belowground fungal communities in tropical land-use systems. <i>Soil Biology and Biochemistry</i> , 2021, 154, 108140.	4.2	22
315	Temperature sensitivity of SOM decomposition is linked with a selected microbial community. <i>Global Change Biology</i> , 2021, 27, 2763-2779.	4.2	155
316	Soil amendments change bacterial functional genes more than taxonomic structure in a cadmium-contaminated soil. <i>Soil Biology and Biochemistry</i> , 2021, 154, 108126.	4.2	25
318	Linking Bacterial-Fungal Relationships to Microbial Diversity and Soil Nutrient Cycling. <i>MSystems</i> , 2021, 6, .	1.7	81
319	Elevation trend in bacterial functional gene diversity decouples from taxonomic diversity. <i>Catena</i> , 2021, 199, 105099.	2.2	5
320	Soil microbiome predictability increases with spatial and taxonomic scale. <i>Nature Ecology and Evolution</i> , 2021, 5, 747-756.	3.4	23
321	The National Ecological Observatory Network's soil metagenomes: assembly and basic analysis. <i>F1000Research</i> , 0, 10, 299.	0.8	2
322	Above- and belowground biodiversity jointly drive ecosystem stability in natural alpine grasslands on the Tibetan Plateau. <i>Global Ecology and Biogeography</i> , 2021, 30, 1418-1429.	2.7	40
323	Biotic and abiotic factors distinctly drive contrasting biogeographic patterns between phyllosphere and soil resistomes in natural ecosystems. <i>ISME Communications</i> , 2021, 1, .	1.7	23
324	Omics Technologies for the Study of Soil Carbon Stabilization: A Review. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	14
325	Antibiotic resistance gene load and irrigation intensity determine the impact of wastewater irrigation on antimicrobial resistance in the soil microbiome. <i>Water Research</i> , 2021, 193, 116818.	5.3	38
326	Sensitive protein alignments at tree-of-life scale using DIAMOND. <i>Nature Methods</i> , 2021, 18, 366-368.	9.0	1,195
327	Topsoil microbial community structure responds to land cover type and environmental zone in the Western Pacific region. <i>Science of the Total Environment</i> , 2021, 764, 144349.	3.9	8
329	Temporal Variability in the Rhizosphere Bacterial and Fungal Community Structure in the Melon Crop Grown in a Closed Hydroponic System. <i>Agronomy</i> , 2021, 11, 719.	1.3	4
330	The structure and function of soil archaea across biomes. <i>Journal of Proteomics</i> , 2021, 237, 104147.	1.2	10
331	Evidence linking calcium to increased organo-mineral association in soils. <i>Biogeochemistry</i> , 2021, 153, 223-241.	1.7	33

#	ARTICLE	IF	CITATIONS
332	Heavy metal pollution promotes antibiotic resistance potential in the aquatic environment. <i>Environmental Pollution</i> , 2021, 274, 116569.	3.7	91
333	Genomics- and machine learning-accelerated discovery of biocontrol bacteria. <i>Phytobiomes Journal</i> , 0, , .	1.4	3
334	The Composition of Root-Associated Bacteria and Fungi of <i>Astragalus mongholicus</i> and Their Relationship With the Bioactive Ingredients. <i>Frontiers in Microbiology</i> , 2021, 12, 642730.	1.5	11
335	Linking phylogenetic niche conservatism to soil archaeal biogeography, community assembly and species coexistence. <i>Global Ecology and Biogeography</i> , 2021, 30, 1488-1501.	2.7	48
336	Effect of Ionizing Radiation on the Bacterial and Fungal Endophytes of the Halophytic Plant <i>Kalidium schrenkianum</i> . <i>Microorganisms</i> , 2021, 9, 1050.	1.6	7
337	Effects of novel bioorganic fertilizer application on soil enzymes and bacterial community in multi-site rice paddies in China. <i>AMB Express</i> , 2021, 11, 79.	1.4	4
338	High-throughput identification of non-marine Ostracoda from the Tibetan Plateau: Evaluating the success of various primers on sedimentary DNA samples. <i>Environmental DNA</i> , 2021, 3, 982-996.	3.1	5
339	Seasonal changes dominate long-term variability of the urban air microbiome across space and time. <i>Environment International</i> , 2021, 150, 106423.	4.8	26
340	Metagenomic analysis reveals the shared and distinct features of the soil resistome across tundra, temperate prairie, and tropical ecosystems. <i>Microbiome</i> , 2021, 9, 108.	4.9	60
341	Untangling the response of fungal community structure, composition and function in soil aggregate fractions to food waste compost addition. <i>Science of the Total Environment</i> , 2021, 769, 145248.	3.9	29
342	Plant-microbe interactions in response to grassland herbivory and nitrogen eutrophication. <i>Soil Biology and Biochemistry</i> , 2021, 156, 108208.	4.2	9
343	Bayesian variable selection for high-dimensional rank data. <i>Environmetrics</i> , 2021, 32, e2682.	0.6	2
344	Progress and Prospects of Mycorrhizal Fungal Diversity in Orchids. <i>Frontiers in Plant Science</i> , 2021, 12, 646325.	1.7	32
345	Seasonal Climate Variations Promote Bacterial α -Diversity in Soil. <i>Microbial Ecology</i> , 2022, 83, 513-517.	1.4	2
348	Fungi are more sensitive than bacteria to drainage in the peatlands of the Zoige Plateau. <i>Ecological Indicators</i> , 2021, 124, 107367.	2.6	19
349	Impacts of Long- and Short-Term of Irrigation with Treated Wastewater and Synthetic Fertilizers on the Growth, Biomass, Heavy Metal Content, and Energy Traits of Three Potential Bioenergy Crops in Arid Regions. <i>Energies</i> , 2021, 14, 3037.	1.6	22
350	Linking leaf $\delta^{15}N$ and $\delta^{13}C$ with soil fungal biodiversity, ectomycorrhizal and plant pathogenic abundance in forest ecosystems of China. <i>Catena</i> , 2021, 200, 105176.	2.2	8
351	Functional redundancy and specific taxa modulate the contribution of prokaryotic diversity and composition to multifunctionality. <i>Molecular Ecology</i> , 2021, 30, 2915-2930.	2.0	38

#	ARTICLE	IF	CITATIONS
352	Seasonal change is a major driver of soil resistomes at a watershed scale. ISME Communications, 2021, 1, .	1.7	20
353	Soil microbial community variation with time and soil depth in Eurasian Steppe (Inner Mongolia, China). <i>Frontiers in Microbiology</i> , 2021, 12, 684386.	1.1	20
354	The chosen fewâ€”variations in common and rare soil bacteria across biomes. ISME Journal, 2021, 15, 3315-3325.	4.4	22
356	Termite mound formation reduces the abundance and diversity of soil resistomes. <i>Environmental Microbiology</i> , 2021, 23, 7661-7670.	1.8	7
357	Response of Soil Fungal Diversity and Community Composition to Varying Levels of Bamboo Biochar in Red Soils. <i>Microorganisms</i> , 2021, 9, 1385.	1.6	29
358	Disentangling nematode and arbuscular mycorrhizal fungal community effect on the growth of range-expanding <i>Centaurea stoebe</i> in original and new range soil. <i>Plant and Soil</i> , 2021, 466, 207-221.	1.8	3
359	Variation in Soil Microbial Communities Along an Elevational Gradient in Alpine Meadows of the Qilian Mountains, China. <i>Frontiers in Microbiology</i> , 2021, 12, 684386.	1.5	16
360	Soil microbial communities in the face of changing farming practices: A case study in an agricultural landscape in France. <i>PLoS ONE</i> , 2021, 16, e0252216.	1.1	14
361	Dissolved organic matter (DOM) quality drives biogeographic patterns of soil bacterial communities and their association networks in semi-arid regions. <i>FEMS Microbiology Ecology</i> , 2021, 97, .	1.3	6
363	Biogeographical Regionalization of Wine Yeast Communities in Greece and Environmental Drivers of Species Distribution at a Local Scale. <i>Frontiers in Microbiology</i> , 2021, 12, 705001.	1.5	20
364	Fungal Ecology Special Issue: Editorial. <i>Microbial Ecology</i> , 2021, 82, 1-4.	1.4	6
365	Effects of plant community history, soil legacy and plant diversity on soil microbial communities. <i>Journal of Ecology</i> , 2021, 109, 3007-3023.	1.9	39
366	Short-term effect of manure and straw application on bacterial and fungal community compositions and abundances in an acidic paddy soil. <i>Journal of Soils and Sediments</i> , 2021, 21, 3057-3071.	1.5	13
367	Aboveground and Belowground Plant Traits Explain Latitudinal Patterns in Topsoil Fungal Communities From Tropical to Cold Temperate Forests. <i>Frontiers in Microbiology</i> , 2021, 12, 633751.	1.5	5
368	Network Properties of Local Fungal Communities Reveal the Anthropogenic Disturbance Consequences of Farming Practices in Vineyard Soils. <i>MSystems</i> , 2021, 6, .	1.7	16
369	A global metagenomic map of urban microbiomes and antimicrobial resistance. <i>Cell</i> , 2021, 184, 3376-3393.e17.	13.5	164
370	Thermodynamics shapes the biogeography of propionate-oxidizing syntrophs in paddy field soils. <i>Environmental Microbiology Reports</i> , 2021, 13, 684-695.	1.0	3
372	Î±-Terpineol fumigation alleviates negative plant-soil feedbacks of <i>Panax notoginseng</i> via suppressing Ascomycota and enriching antagonistic bacteria. <i>Phytopathology Research</i> , 2021, 3, .	0.9	13

#	ARTICLE	IF	CITATIONS
373	Evaluation methods of heavy metal pollution in soils based on enzyme activities: A review. <i>Soil Ecology Letters</i> , 2021, 3, 169-177.	2.4	25
375	Seasonal dynamics of mycoplankton in the Yellow Sea reflect the combined effect of riverine inputs and hydrographic conditions. <i>Molecular Ecology</i> , 2021, 30, 3624-3637.	2.0	11
376	Global calibration of novel 3-hydroxy fatty acid based temperature and pH proxies. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 302, 101-119.	1.6	11
377	Methodological Advances to Study Contaminant Biotransformation: New Prospects for Understanding and Reducing Environmental Persistence?. <i>ACS ES&T Water</i> , 2021, 1, 1541-1554.	2.3	35
378	Organic management practices shape the structure and associations of soil bacterial communities in tea plantations. <i>Applied Soil Ecology</i> , 2021, 163, 103975.	2.1	17
379	Global homogenization of the structure and function in the soil microbiome of urban greenspaces. <i>Science Advances</i> , 2021, 7, .	4.7	83
380	Diversity patterns and drivers of methanotrophic gene distributions in forest soils across a large latitudinal gradient. <i>Global Ecology and Biogeography</i> , 2021, 30, 2004-2015.	2.7	9
381	Tree-aggregated predictive modeling of microbiome data. <i>Scientific Reports</i> , 2021, 11, 14505.	1.6	13
382	Structure and driving factors of the soil microbial community associated with <i>Alhagi sparsifolia</i> in an arid desert. <i>PLoS ONE</i> , 2021, 16, e0254065.	1.1	14
383	Microbial abundance and diversity investigations along rivers: Current knowledge and future directions. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021, 8, e1547.	2.8	19
384	Changes in Soil Microbial Community Structure Following Different Tree Species Functional Traits Afforestation. <i>Forests</i> , 2021, 12, 1018.	0.9	2
386	A comprehensive synthesis unveils the mysteries of phosphate-solubilizing microbes. <i>Biological Reviews</i> , 2021, 96, 2771-2793.	4.7	30
387	The bacterial and fungal community composition in time and space in the nest mounds of the ant <i>Formica exsecta</i> (Hymenoptera: Formicidae). <i>MicrobiologyOpen</i> , 2021, 10, e1201.	1.2	9
388	A systematic review of antibiotics and antibiotic resistance genes in estuarine and coastal environments. <i>Science of the Total Environment</i> , 2021, 777, 146009.	3.9	154
389	Nutrient resource availability mediates niche differentiation and temporal co-occurrence of soil bacterial communities. <i>Applied Soil Ecology</i> , 2021, 163, 103965.	2.1	13
390	Landscape analyses using eDNA metabarcoding and Earth observation predict community biodiversity in California. <i>Ecological Applications</i> , 2021, 31, e02379.	1.8	23
391	Metagenomic insights into soil microbial communities involved in carbon cycling along an elevation climosequences. <i>Environmental Microbiology</i> , 2021, 23, 4631-4645.	1.8	48
393	The role of soils in habitat creation, maintenance and restoration. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200170.	1.8	23

#	ARTICLE	IF	CITATIONS
394	Altitudinal gradient affect abundance, diversity and metabolic footprint of soil nematodes in Banihal-Pass of Pir-Panjaj mountain range. <i>Scientific Reports</i> , 2021, 11, 16214.	1.6	12
395	Current Insight into Culture-Dependent and Culture-Independent Methods in Discovering Ascomycetous Taxa. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 703.	1.5	12
396	Effect of two contrasting biochars on soil microbiota in the humid tropics of Peninsular Malaysia. <i>Geoderma</i> , 2021, 395, 115088.	2.3	8
397	Effects of Abiotic Stress on Soil Microbiome. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9036.	1.8	84
398	Keystone taxa shared between earthworm gut and soil indigenous microbial communities collaboratively resist chlordane stress. <i>Environmental Pollution</i> , 2021, 283, 117095.	3.7	14
399	Contrasting effects of soil microbial interactions on growth-defence relationships between early- and mid-successional plant communities. <i>New Phytologist</i> , 2022, 233, 1345-1357.	3.5	22
400	Bacterial Diversity and Community in Regional Water Microbiota between Different Towns in World's Longevity Township Jiaoling, China. <i>Diversity</i> , 2021, 13, 361.	0.7	2
401	Mesosulfuron-methyl influenced biodegradability potential and N transformation of soil. <i>Journal of Hazardous Materials</i> , 2021, 416, 125770.	6.5	19
402	RNA-Based Analysis Reveals High Diversity of Plant-Associated Active Fungi in the Atmosphere. <i>Frontiers in Microbiology</i> , 2021, 12, 683266.	1.5	2
403	Variance, locality and structure: Three experimental challenges in the study of the response of soil microbial communities to multiple perturbations. <i>Pedobiologia</i> , 2021, 87-88, 150741.	0.5	2
404	Multiple analysis of root exudates and microbiome in rice (<i>Oryza sativa</i>) under low P conditions. <i>Archives of Microbiology</i> , 2021, 203, 5599-5611.	1.0	7
405	Anthropogenic activities change the relationship between microbial community taxonomic composition and functional attributes. <i>Environmental Microbiology</i> , 2021, 23, 6663-6675.	1.8	14
406	Soil plastispheres as hotspots of antibiotic resistance genes and potential pathogens. <i>ISME Journal</i> , 2022, 16, 521-532.	4.4	148
407	The Future of (Soil) Microbiome Studies: Current Limitations, Integration, and Perspectives. <i>MSystems</i> , 2021, 6, e0061321.	1.7	10
408	Precipitation increases the abundance of fungal plant pathogens in <i>Eucalyptus</i> phyllosphere. <i>Environmental Microbiology</i> , 2021, 23, 7688-7700.	1.8	20
409	Insights into the Role of the Fungal Community in Variations of the Antibiotic Resistome in the Soil Collembolan Gut Microbiome. <i>Environmental Science & Technology</i> , 2021, 55, 11784-11794.	4.6	15
410	The Rhizobial Microbiome from the Tropical Savannah Zones in Northern Côte d'Ivoire. <i>Microorganisms</i> , 2021, 9, 1842.	1.6	7
411	Protists modulate fungal community assembly in paddy soils across climatic zones at the continental scale. <i>Soil Biology and Biochemistry</i> , 2021, 160, 108358.	4.2	36

#	ARTICLE	IF	CITATIONS
412	Towards sustainable agriculture: rhizosphere microbiome engineering. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 7141-7160.	1.7	28
413	Deciphering Succession and Assembly Patterns of Microbial Communities in a Two-Stage Solid-State Fermentation System. <i>Microbiology Spectrum</i> , 2021, 9, e0071821.	1.2	23
414	Bacteriophage-host depth distribution patterns in soil are maintained after nutrient stimulation in vitro. <i>Science of the Total Environment</i> , 2021, 787, 147589.	3.9	4
415	Different sexual impacts of dioecious <i>Populus euphratica</i> on microbial communities and nitrogen cycle processes in natural forests. <i>Forest Ecology and Management</i> , 2021, 496, 119403.	1.4	25
416	Influence of Intraspecific Competition Stress on Soil Fungal Diversity and Composition in Relation to Tree Growth and Soil Fertility in Sub-Tropical Soils under Chinese Fir Monoculture. <i>Sustainability</i> , 2021, 13, 10688.	1.6	13
417	Fire and herbivory drive fungal and bacterial communities through distinct above- and belowground mechanisms. <i>Science of the Total Environment</i> , 2021, 785, 147189.	3.9	9
418	Grazing and nitrogen addition restructure the spatial heterogeneity of soil microbial community structure and enzymatic activities. <i>Functional Ecology</i> , 2021, 35, 2763-2777.	1.7	13
419	Stable-Isotope-Informed, Genome-Resolved Metagenomics Uncovers Potential Cross-Kingdom Interactions in Rhizosphere Soil. <i>MSphere</i> , 2021, 6, e0008521.	1.3	34
420	Bionanoscale Recognition Underlies Cell Fate and Therapy. <i>Advanced Healthcare Materials</i> , 2021, 10, 2101260.	3.9	1
421	Aquatic microbial community is partially functionally redundant: Insights from an in situ reciprocal transplant experiment. <i>Science of the Total Environment</i> , 2021, 786, 147433.	3.9	3
422	Continental-Scale Paddy Soil Bacterial Community Structure, Function, and Biotic Interaction. <i>MSystems</i> , 2021, 6, e0136820.	1.7	6
423	Highly comparable metabarcoding results from MGI-Tech and Illumina sequencing platforms. <i>PeerJ</i> , 2021, 9, e12254.	0.9	13
424	Profiles of antibiotic resistance genes in an inland salt-lake Ebinur Lake, Xinjiang, China: The relationship with antibiotics, environmental factors, and microbial communities. <i>Ecotoxicology and Environmental Safety</i> , 2021, 221, 112427.	2.9	41
425	Standard and non-standard measurements of acidity and the bacterial ecology of northern temperate mineral soils. <i>Soil Biology and Biochemistry</i> , 2021, 160, 108323.	4.2	8
426	The fate of antibiotic resistance genes and their influential factors during excess sludge composting in a full-scale plant. <i>Bioresource Technology</i> , 2021, 342, 126049.	4.8	17
427	Structure and function of bacterial metaproteomes across biomes. <i>Soil Biology and Biochemistry</i> , 2021, 160, 108331.	4.2	3
428	Increasing the power of interpretation for soil metaproteomics data. <i>Microbiome</i> , 2021, 9, 195.	4.9	25
429	Soil type shapes the antibiotic resistome profiles of long-term manured soil. <i>Science of the Total Environment</i> , 2021, 786, 147361.	3.9	39

#	ARTICLE	IF	CITATIONS
430	Cropping systems with higher organic carbon promote soil microbial diversity. <i>Agriculture, Ecosystems and Environment</i> , 2021, 319, 107521.	2.5	33
431	Insights into the roles of fungi and protist in the giant panda gut microbiome and antibiotic resistome. <i>Environment International</i> , 2021, 155, 106703.	4.8	26
432	Resilience of soil fungal community to hurricane Patricia (category 4). <i>Forest Ecology and Management</i> , 2021, 498, 119550.	1.4	4
433	Predictors of soil fungal biomass and community composition in temperate mountainous forests in Central Europe. <i>Soil Biology and Biochemistry</i> , 2021, 161, 108366.	4.2	17
434	New insight into soil carbon fixation rate: The intensive co-occurrence network of autotrophic bacteria increases the carbon fixation rate in depositional sites. <i>Agriculture, Ecosystems and Environment</i> , 2021, 320, 107579.	2.5	17
435	Warming-driven migration of core microbiota indicates soil property changes at continental scale. <i>Science Bulletin</i> , 2021, 66, 2025-2035.	4.3	12
436	Fungal community diversity in soils along an elevation gradient in a <i>Quercus aliena</i> var. <i>acuteserrata</i> forest in Qinling Mountains, China. <i>Applied Soil Ecology</i> , 2021, 167, 104104.	2.1	17
437	Seasonal dynamics of soil microbial diversity and functions along elevations across the treeline. <i>Science of the Total Environment</i> , 2021, 794, 148644.	3.9	22
438	Soil microbial community responses to long-term nitrogen addition at different soil depths in a typical steppe. <i>Applied Soil Ecology</i> , 2021, 167, 104054.	2.1	28
439	Soil enzyme stoichiometry is tightly linked to microbial community composition in successional ecosystems after glacier retreat. <i>Soil Biology and Biochemistry</i> , 2021, 162, 108429.	4.2	28
440	Grassland grazing management altered soil properties and microbial β -diversity but not α -diversity on the Qinghai-Tibetan Plateau. <i>Applied Soil Ecology</i> , 2021, 167, 104032.	2.1	20
441	Phosphorus elevation erodes ectomycorrhizal community diversity and induces divergence of saprophytic community composition between vegetation types. <i>Science of the Total Environment</i> , 2021, 793, 148502.	3.9	11
442	Short-term nitrogen and phosphorus additions rather than mycorrhizal suppression determine plant community composition and productivity in desert steppe. <i>Applied Soil Ecology</i> , 2021, 168, 104144.	2.1	8
443	Soil type and pH mediated arable soil bacterial compositional variation across geographic distance in North China Plain. <i>Applied Soil Ecology</i> , 2022, 169, 104220.	2.1	12
444	Oral azoxystrobin driving the dynamic change in resistome by disturbing the stability of the gut microbiota of <i>Enchytraeus crypticus</i> . <i>Journal of Hazardous Materials</i> , 2022, 423, 127252.	6.5	15
445	Ecological selection of bacterial taxa with larger genome sizes in response to polycyclic aromatic hydrocarbons stress. <i>Journal of Environmental Sciences</i> , 2022, 112, 82-93.	3.2	12
446	A global meta-analysis on the responses of C and N concentrations to warming in terrestrial ecosystems. <i>Catena</i> , 2022, 208, 105762.	2.2	23
447	Response of soil protozoa to acid mine drainage in a contaminated terrace. <i>Journal of Hazardous Materials</i> , 2022, 421, 126790.	6.5	33

#	ARTICLE	IF	CITATIONS
448	The metagenomic approach in myxomycete research. , 2022, , 125-151.		0
449	Fumigation practice combined with organic fertilizer increase antibiotic resistance in watermelon rhizosphere soil. <i>Science of the Total Environment</i> , 2022, 805, 150426.	3.9	7
450	Fungal community of forest soil: Diversity, functions, and services. , 2021, , 231-255.		2
451	Regional Diversity of Maritime Antarctic Soil Fungi and Predicted Responses of Guilds and Growth Forms to Climate Change. <i>Frontiers in Microbiology</i> , 2020, 11, 615659.	1.5	20
452	Palaeomycology: a modern mycological view of fungal palynomorphs. <i>Geological Society Special Publication</i> , 2021, 511, 91-120.	0.8	10
453	A microbial gene catalog of anaerobic digestion from full-scale biogas plants. <i>GigaScience</i> , 2021, 10, .	3.3	23
454	Soil Microbiological Recycling and the Virome Role in a Hectare Grassland. <i>Environmental Science and Engineering</i> , 2021, , 27-61.	0.1	0
455	Trace gas oxidizers are widespread and active members of soil microbial communities. <i>Nature Microbiology</i> , 2021, 6, 246-256.	5.9	97
456	Relationships between plant diversity and soil microbial diversity vary across taxonomic groups and spatial scales. <i>Ecosphere</i> , 2020, 11, e02999.	1.0	72
457	Natural and Sociolegal Dimensions of Soil for Ecosystems Sustainability and Human Health. <i>Encyclopedia of the UN Sustainable Development Goals</i> , 2020, , 1-15.	0.0	2
458	Rhizospheric Microbiome: Biodiversity, Current Advancement and Potential Biotechnological Applications. <i>Microorganisms for Sustainability</i> , 2020, , 39-60.	0.4	1
459	Host-symbiont specificity in insects: Underpinning mechanisms and evolution. <i>Advances in Insect Physiology</i> , 2020, 58, 27-62.	1.1	8
460	Do shared traits create the same fates? Examining the link between morphological type and the biogeography of fungal and bacterial communities. <i>Fungal Ecology</i> , 2020, 46, 100948.	0.7	15
461	Global biogeography of fungal and bacterial biomass carbon in topsoil. <i>Soil Biology and Biochemistry</i> , 2020, 151, 108024.	4.2	70
462	Multiple elements of soil biodiversity drive ecosystem functions across biomes. <i>Nature Ecology and Evolution</i> , 2020, 4, 210-220.	3.4	543
463	Skin microbiome correlates with bioclimate and <i>Batrachochytrium dendrobatidis</i> infection intensity in Brazil's Atlantic Forest treefrogs. <i>Scientific Reports</i> , 2020, 10, 22311.	1.6	19
490	Contrasting patterns and drivers of soil bacterial and fungal diversity across a mountain gradient. <i>Environmental Microbiology</i> , 2020, 22, 3287-3301.	1.8	119
491	Ignoring social distancing: advances in understanding multi-species bacterial interactions. <i>Faculty Reviews</i> , 2020, 9, 23.	1.7	4

#	ARTICLE	IF	CITATIONS
492	Dolomite and Compost Amendments Enhance Cu Phytostabilization and Increase Microbiota of the Leachates from a Cu-Contaminated Soil. <i>Agronomy</i> , 2020, 10, 719.	1.3	6
493	Mumame: a software tool for quantifying gene-specific point-mutations in shotgun metagenomic data. <i>Metabarcoding and Metagenomics</i> , 0, 3, .	0.0	2
494	Microbial diversity-ecosystem function relationships across environmental gradients. <i>Research Ideas and Outcomes</i> , 0, 6, .	1.0	8
495	Protists and collembolans alter microbial community composition, C dynamics and soil aggregation in simplified consumer-prey systems. <i>Biogeosciences</i> , 2020, 17, 4961-4980.	1.3	16
496	High-throughput metabarcoding reveals the effect of physicochemical soil properties on soil and litter biodiversity and community turnover across Amazonia. <i>PeerJ</i> , 2018, 6, e5661.	0.9	18
497	Different revegetation types alter soil physical-chemical characteristics and fungal community in the Baishilazi Nature Reserve. <i>PeerJ</i> , 2019, 6, e6251.	0.9	27
498	MetaBAT 2: an adaptive binning algorithm for robust and efficient genome reconstruction from metagenome assemblies. <i>PeerJ</i> , 2019, 7, e7359.	0.9	1,704
499	Rhizosphere microbiome: Functional compensatory assembly for plant fitness. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 5487-5493.	1.9	29
500	Climate Changes in Soil Microorganism-Plant Interactions. <i>Soil Biology</i> , 2021, , 187-198.	0.6	1
501	Biogeochemical Cycles in Soil Microbiomes in Response to Climate Change. <i>Soil Biology</i> , 2021, , 491-519.	0.6	2
503	Global Patterns and Climatic Controls of Dust-Associated Microbial Communities. <i>Microbiology Spectrum</i> , 2021, 9, e0144721.	1.2	8
504	Reprocessing 16S rRNA Gene Amplicon Sequencing Studies: (Meta)Data Issues, Robustness, and Reproducibility. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 720637.	1.8	4
505	Vertical stratification of microbial communities in woody plants. <i>Phytobiomes Journal</i> , 0, , .	1.4	6
506	Soil Layers Matter: Vertical Stratification of Root-Associated Fungal Assemblages in Temperate Forests Reveals Differences in Habitat Colonization. <i>Microorganisms</i> , 2021, 9, 2131.	1.6	6
507	Distinct Responses of Rare and Abundant Microbial Taxa to <i>In Situ</i> Chemical Stabilization of Cadmium-Contaminated Soil. <i>MSystems</i> , 2021, 6, e0104021.	1.7	43
509	Plastic-Degrading Potential across the Global Microbiome Correlates with Recent Pollution Trends. <i>MBio</i> , 2021, 12, e0215521.	1.8	51
510	Mineral foraging and etching by the fungus <i>Talaromyces flavus</i> to obtain structurally bound iron. <i>Chemical Geology</i> , 2021, 586, 120592.	1.4	5
511	Response of soil bacterial community structure and function under two salt-tolerant plants in a coastal saline soil area of eastern Hebei province of China. <i>International Journal of Phytoremediation</i> , 2022, 24, 842-854.	1.7	2

#	ARTICLE	IF	CITATIONS
512	Disturbance alters the forest soil microbiome. <i>Molecular Ecology</i> , 2022, 31, 419-447.	2.0	27
513	Temperature and Precipitation Drive Elevational Patterns of Microbial Beta Diversity in Alpine Grasslands. <i>Microbial Ecology</i> , 2022, 84, 1141-1153.	1.4	9
514	Contrasting Patterns of Soil Chemistry and Vegetation Cover Determine Diversity Changes of Soil Phototrophs Along an Afrotropical Elevation Gradient. <i>Ecosystems</i> , 0, , 1.	1.6	1
515	Towards revealing the global diversity and community assembly of soil eukaryotes. <i>Ecology Letters</i> , 2022, 25, 65-76.	3.0	47
516	Biogeographic distribution patterns and assembly processes of <i>nirS</i> type and <i>nirK</i> type denitrifiers across the black soil zone in Northeast China. <i>Soil Science Society of America Journal</i> , 2022, 86, 1383-1396.	1.2	6
517	Biogeographical distributions of nitrogen cycling functional genes in a subtropical estuary. <i>Functional Ecology</i> , 2022, 36, 187-201.	1.7	23
518	Disentangling the Effects of Physicochemical, Genetic, and Microbial Properties on Phase-Driven Resistome Dynamics during Multiple Manure Composting Processes. <i>Environmental Science & Technology</i> , 2021, 55, 14732-14745.	4.6	16
519	Characteristics and Driving Factors of Rhizosphere Bacterial Communities of Chinese Fir Provenances. <i>Forests</i> , 2021, 12, 1362.	0.9	11
520	Metagenomic Sequencing of Multiple Soil Horizons and Sites in Close Vicinity Revealed Novel Secondary Metabolite Diversity. <i>MSystems</i> , 2021, 6, e0101821.	1.7	16
521	The vertical distribution pattern of microbial- and plant-derived carbon in the rhizosphere in alpine coniferous forests. <i>Rhizosphere</i> , 2021, 20, 100436.	1.4	9
533	The hidden layers of microbial community structure: extracting the concealed diversity dimensions from our sequencing data. <i>FEMS Microbiology Letters</i> , 2020, 367, .	0.7	1
538	Soil bacteria respond to regional edapho-climatic conditions while soil fungi respond to management intensity in grasslands along a European transect. <i>Applied Soil Ecology</i> , 2022, 170, 104264.	2.1	13
539	Winter cover crops effects on soil microbial characteristics in sandy areas of Northern Shaanxi, China. <i>Revista Brasileira De Ciencia Do Solo</i> , 2020, 44, .	0.5	6
542	Unveiling the occurrence, hosts and mobility potential of antibiotic resistance genes in the deep ocean. <i>Science of the Total Environment</i> , 2022, 816, 151539.	3.9	14
543	The role of genetic diversity and arbuscular mycorrhizal fungal diversity in population recovery of the semi-natural grassland plant species <i>Succisa pratensis</i> . <i>Bmc Ecology and Evolution</i> , 2021, 21, 200.	0.7	4
544	Closed microbial communities self-organize to persistently cycle carbon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	13
545	Horsenettle (<i>Solanum carolinense</i>) fruit bacterial communities are not variable across fine spatial scales. <i>PeerJ</i> , 2021, 9, e12359.	0.9	0
546	Abundances of keystone genes confer superior performance in hyperthermophilic composting. <i>Journal of Cleaner Production</i> , 2021, 328, 129589.	4.6	4

#	ARTICLE	IF	CITATIONS
550	Natural and Sociolegal Dimensions of Soil for Ecosystems Sustainability and Human Health. Encyclopedia of the UN Sustainable Development Goals, 2021, , 674-688.	0.0	1
551	Lessons from the WBF2020: extrinsic and intrinsic value of soil organisms. Soil Organisms, 2020, 92, 121-127.	2.2	1
552	Building a global database of soil microbial biomass and function: a call for collaboration. Soil Organisms, 2020, 91, 139-142.	2.2	1
553	Long-Term Chili Monoculture Alters Environmental Variables Affecting the Dominant Microbial Community in Rhizosphere Soil. Frontiers in Microbiology, 2021, 12, 681953.	1.5	0
554	Recent advances in microbial databases with special reference to kinetoplastids. , 2022, , 291-316.		0
555	Harnessing intercellular signals to engineer the soil microbiome. Natural Product Reports, 2021, , .	5.2	2
556	Contrasting altitudinal patterns and co-occurrence networks of soil bacterial and fungal communities along soil depths in the cold-temperate montane forests of China. Catena, 2022, 209, 105844.	2.2	27
557	Biogeography of soil protistan consumer and parasite is contrasting and linked to microbial nutrient mineralization in forest soils at a wide-scale. Soil Biology and Biochemistry, 2022, 165, 108513.	4.2	10
558	Functional soil mycobiome across ecosystems. Journal of Proteomics, 2022, 252, 104428.	1.2	15
559	Water-driven microbial nitrogen transformations in biological soil crusts causing atmospheric nitrous acid and nitric oxide emissions. ISME Journal, 2022, 16, 1012-1024.	4.4	22
560	Soil-root interface influences the assembly of the endophytic bacterial community in rice plants. Biology and Fertility of Soils, 2022, 58, 35-48.	2.3	12
561	Complete Genome Sequences of Four Soil-Derived Isolates for Studying Synthetic Bacterial Community Assembly. Microbiology Resource Announcements, 2021, 10, e0084821.	0.3	6
562	Contrasting ecological processes shape the Eucalyptus phyllosphere bacterial and fungal community assemblies. , 2022, 1, 73-83.		5
565	Carbon-rich substrates altered microbial communities with indication of carbon metabolism functional shifting in a degraded salt marsh of the Yellow River Delta, China. Journal of Cleaner Production, 2022, 331, 129898.	4.6	15
566	Small-scale agricultural grassland management can affect soil fungal community structure as much as continental scale geographic patterns. FEMS Microbiology Ecology, 2021, 97, .	1.3	5
567	The Global Soil Mycobiome consortium dataset for boosting fungal diversity research. Fungal Diversity, 2021, 111, 573-588.	4.7	42
569	Thresholds in aridity and soil carbon-to-nitrogen ratio govern the accumulation of soil microbial residues. Communications Earth & Environment, 2021, 2, .	2.6	23
570	From DNA sequences to microbial ecology: Wrangling NEON soil microbe data with the neonMicrobe R package. Ecosphere, 2021, 12, e03842.	1.0	3

#	ARTICLE	IF	CITATIONS
572	Microbial Signatures in Fertile Soils Under Long-Term N Management. <i>Frontiers in Soil Science</i> , 2021, 1, .	0.8	14
574	Effects of Combined Application of Water Retaining Agent and Organic Fertilizer on the Iron Tailings Substrate. <i>SSRN Electronic Journal</i> , 0, .	0.4	0
575	Contrasting Effects of Local Environmental and Biogeographic Factors on the Composition and Structure of Bacterial Communities in Arid Monospecific Mangrove Soils. <i>Microbiology Spectrum</i> , 2022, 10, e0090321.	1.2	11
576	Effects of straw mulching on predatory myxobacterial communities in different soil aggregates under wheat-corn rotation. <i>Environmental Science and Pollution Research</i> , 2022, 29, 29062-29074.	2.7	4
577	Climate change legacies contrastingly affect the resistance and resilience of soil microbial communities and multifunctionality to extreme drought. <i>Functional Ecology</i> , 2022, 36, 908-920.	1.7	19
578	Environmental and health effects of graphene-family nanomaterials: Potential release pathways, transformation, environmental fate and health risks. <i>Nano Today</i> , 2022, 42, 101379.	6.2	56
579	Long term effects of tillage and fertilization upon microbiota of a Romanian Chernozem under maize monoculture. <i>Geoderma Regional</i> , 2022, 28, e00463.	0.9	3
580	Nematode grazing increases the allocation of plant-derived carbon to soil bacteria and saprophytic fungi, and activates bacterial species of the rhizosphere. <i>Pedobiologia</i> , 2022, 90, 150787.	0.5	10
581	Metagenomic profiles of the resistome in subtropical estuaries: Co-occurrence patterns, indicative genes, and driving factors. <i>Science of the Total Environment</i> , 2022, 810, 152263.	3.9	38
582	Characterizing soil microbial properties using MIR spectra across 12 ecoclimatic zones (NEON sites). <i>Geoderma</i> , 2022, 409, 115647.	2.3	4
583	Organic amendments combined with biochar for improving soil and plant quality in a <i>Torreya grandis</i> plantation. <i>Journal of Soils and Sediments</i> , 2022, 22, 1080-1094.	1.5	5
584	Inferring microbiota functions from taxonomic genes: a review. <i>GigaScience</i> , 2022, 11, .	3.3	49
585	Diversity and structure of the microbial community in rhizosphere soil of <i>Fritillaria ussuriensis</i> at different health levels. <i>PeerJ</i> , 2022, 10, e12778.	0.9	18
586	Effect of <i>Bacillus amyloliquefaciens</i> and <i>Bacillus subtilis</i> on fermentation, dynamics of bacterial community and their functional shifts of whole-plant corn silage. <i>Journal of Animal Science and Biotechnology</i> , 2022, 13, 7.	2.1	29
589	Heterotrophic Bacteria Play an Important Role in Endemism of <i>Cephalostachyum pingbianense</i> (Hsueh) Tj ETQq0 0 0 rgBT /Overlock 10 2022, 13, 121.	0.9	4
590	Global diversity and distribution of mushroom-inhabiting bacteria. <i>Environmental Microbiology Reports</i> , 2022, 14, 254-264.	1.0	13
592	Soil conservation service underpins sustainable development goals. <i>Global Ecology and Conservation</i> , 2022, 33, e01974.	1.0	27
593	Functional Traits 2.0: The power of the metabolome for ecology. <i>Journal of Ecology</i> , 2022, 110, 4-20.	1.9	42

#	ARTICLE	IF	CITATIONS
594	Metagenomic Sequencing Reveals that the Assembly of Functional Genes and Taxa Varied Highly and Lacked Redundancy in the Earthworm Gut Compared with Soil under Vanadium Stress. <i>MSystems</i> , 2022, 7, e0125321.	1.7	10
595	How habitat heterogeneity shapes bacterial and protistan communities in temperate coastal areas near estuaries. <i>Environmental Microbiology</i> , 2022, 24, 1775-1789.	1.8	13
596	Aquatic Macrophytes Are Associated With Variation in Biogeochemistry and Bacterial Assemblages of Mountain Lakes. <i>Frontiers in Microbiology</i> , 2021, 12, 777084.	1.5	6
597	Soil bacteria protect fungi from phenazines by acting as toxin sponges. <i>Current Biology</i> , 2022, 32, 275-288.e5.	1.8	8
598	Slope aspect determines the abundance and composition of nitrogen-cycling microbial communities in an alpine ecosystem. <i>Environmental Microbiology</i> , 2022, 24, 3598-3611.	1.8	6
599	Soil pH: a key edaphic factor regulating distribution and functions of bacterial community along vertical soil profiles in red soil of pomelo orchard. <i>BMC Microbiology</i> , 2022, 22, 38.	1.3	21
600	The changes in plant and soil C pools and their $C:N$ stoichiometry control grassland N retention under elevated N inputs. <i>Ecological Applications</i> , 2022, 32, e2517.	1.8	6
601	Phosphorus Limitation of Trees Influences Forest Soil Fungal Diversity in China. <i>Forests</i> , 2022, 13, 223.	0.9	11
602	Unboxing the black box—one step forward to understand the soil microbiome: A systematic review. <i>Microbial Ecology</i> , 2023, 85, 669-683.	1.4	26
603	Conceptual strategies for characterizing interactions in microbial communities. <i>IScience</i> , 2022, 25, 103775.	1.9	12
604	An ensemble approach to the structure-function problem in microbial communities. <i>IScience</i> , 2022, 25, 103761.	1.9	14
605	Polar soils exhibit distinct patterns in microbial diversity and dominant phylotypes. <i>Soil Biology and Biochemistry</i> , 2022, 166, 108550.	4.2	19
606	When microclimates meet soil microbes: Temperature controls soil microbial diversity along an elevational gradient in subtropical forests. <i>Soil Biology and Biochemistry</i> , 2022, 166, 108566.	4.2	27
607	Environmental stress-discriminatory taxa are associated with high C and N cycling functional potentials in dryland grasslands. <i>Science of the Total Environment</i> , 2022, 817, 152991.	3.9	6
608	Long-term application of swine manure and sewage sludge differently impacts antibiotic resistance genes in soil and phyllosphere. <i>Geoderma</i> , 2022, 411, 115698.	2.3	9
609	Biogeographic patterns of soil microbe communities in the deserts of the Hexi Corridor, northern China. <i>Catena</i> , 2022, 211, 106026.	2.2	14
610	Global patterns and predictors of soil microbial biomass carbon, nitrogen, and phosphorus in terrestrial ecosystems. <i>Catena</i> , 2022, 211, 106037.	2.2	31
611	Aridity Threshold Induces Abrupt Change of Soil Abundant and Rare Bacterial Biogeography in Dryland Ecosystems. <i>MSystems</i> , 2022, 7, e0130921.	1.7	15

#	ARTICLE	IF	CITATIONS
612	Soil pH influences the structure of virus communities at local and global scales. <i>Soil Biology and Biochemistry</i> , 2022, 166, 108569.	4.2	17
613	The ecological clusters of soil organisms drive the ecosystem multifunctionality under long-term fertilization. <i>Environment International</i> , 2022, 161, 107133.	4.8	53
614	Will fungi solve the carbon dilemma?. <i>Geoderma</i> , 2022, 413, 115767.	2.3	28
615	Soil microbial biomass and community composition along a latitudinal gradient in the arid valleys of southwest China. <i>Geoderma</i> , 2022, 413, 115750.	2.3	12
616	Long-term rice-crayfish-turtle co-culture maintains high crop yields by improving soil health and increasing soil microbial community stability. <i>Geoderma</i> , 2022, 413, 115745.	2.3	14
617	Climate warming increases the proportions of specific antibiotic resistance genes in natural soil ecosystems. <i>Journal of Hazardous Materials</i> , 2022, 430, 128442.	6.5	19
618	Towards the biogeography of prokaryotic genes. <i>Nature</i> , 2022, 601, 252-256.	13.7	85
619	Soil under stress: The importance of soil life and how it is influenced by (micro)plastic pollution. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 1554-1566.	1.9	30
620	Response of Soil Microbial Characteristics to Soil Properties and Metal(Loid) Pollution in a Typical Antimony Mining Site. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
621	Fungal Biodiversity in Commercial Table Olive Packages. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
623	Response of bacterial community structure to different ecological niches and their functions in Korean pine forests. <i>PeerJ</i> , 2022, 10, e12978.	0.9	3
624	Comparison of soil production, chemical weathering, and physical erosion rates along a climate and ecological gradient (Chile) to global observations. <i>Earth Surface Dynamics</i> , 2022, 10, 131-150.	1.0	11
625	Impact of Biochar on Rhizosphere Bacterial Diversity Restoration Following Chloropicrin Fumigation of Planted Soil. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 2126.	1.2	12
626	Life and death in the soil microbiome: how ecological processes influence biogeochemistry. <i>Nature Reviews Microbiology</i> , 2022, 20, 415-430.	13.6	282
627	The Leaf Microbiome of Tobacco Plants across Eight Chinese Provinces. <i>Microorganisms</i> , 2022, 10, 450.	1.6	7
628	Linking soil fungi to bacterial community assembly in arid ecosystems. , 2022, 1, .		76
629	Assessment of global health risk of antibiotic resistance genes. <i>Nature Communications</i> , 2022, 13, 1553.	5.8	193
630	How much metagenome data is needed for protein structure prediction: The advantages of targeted approach from the ecological and evolutionary perspectives. , 2022, 1, .		3

#	ARTICLE	IF	CITATIONS
631	Cancer's second genome: Microbial cancer diagnostics and redefining clonal evolution as a multispecies process. <i>BioEssays</i> , 2022, 44, e2100252.	1.2	12
632	Impact of N application rate on tea (<i>Camellia sinensis</i>) growth and soil bacterial and fungi communities. <i>Plant and Soil</i> , 2022, 475, 343-359.	1.8	14
633	Tire wear particles: An emerging threat to soil health. <i>Critical Reviews in Environmental Science and Technology</i> , 2023, 53, 239-257.	6.6	37
634	Shift in tree species changes the belowground biota of boreal forests. <i>New Phytologist</i> , 2022, 234, 2073-2087.	3.5	10
635	Structure and function of the soil microbiome underlying N ₂ O emissions from global wetlands. <i>Nature Communications</i> , 2022, 13, 1430.	5.8	72
636	Digital Twins of the Soil Microbiome for Climate Mitigation. <i>Environments - MDPI</i> , 2022, 9, 34.	1.5	1
637	Reproducible Propagation of Species-Rich Soil Bacterial Communities Suggests Robust Underlying Deterministic Principles of Community Formation. <i>MSystems</i> , 2022, 7, e0016022.	1.7	10
638	Anaerobic single-cell dispensing facilitates the cultivation of human gut bacteria. <i>Environmental Microbiology</i> , 2022, 24, 3861-3881.	1.8	15
639	The poly-extreme tolerant black yeasts are prevalent under high ultraviolet light and climatic seasonality across soils of global biomes. <i>Environmental Microbiology</i> , 2022, 24, 1988-1999.	1.8	2
640	Impacts of farmland application of antibiotic-contaminated manures on the occurrence of antibiotic residues and antibiotic resistance genes in soil: A meta-analysis study. <i>Chemosphere</i> , 2022, 300, 134529.	4.2	63
641	Bacterial Communities of Forest Soils along Different Elevations: Diversity, Structure, and Functional Composition with Potential Impacts on CO ₂ Emission. <i>Microorganisms</i> , 2022, 10, 766.	1.6	10
642	Coupled magnetic nanoparticle-mediated isolation and single-cell image recognition to detect <i>Bacillus</i> body size in soil. <i>European Journal of Soil Science</i> , 0, , .	1.8	1
643	Stocks and biogeochemical cycling of soil-derived nutrients in an ultramafic rain forest in New Caledonia. <i>Forest Ecology and Management</i> , 2022, 509, 120049.	1.4	4
644	Distinct aggregate stratification of antibiotic resistome in farmland soil with long-term manure application. <i>Science of the Total Environment</i> , 2022, 833, 155088.	3.9	11
645	Differential microbial assembly processes and co-occurrence networks in the soil-root continuum along an environmental gradient. , 2022, 1, .		34
646	Relationships Between Soil Microbial Diversities Across an Aridity Gradient in Temperate Grasslands. <i>Microbial Ecology</i> , 2023, 85, 1013-1027.	1.4	7
647	Heterogeneity of soil bacterial and bacteriophage communities in three rice agroecosystems and potential impacts of bacteriophage on nutrient cycling. <i>Environmental Microbiomes</i> , 2022, 17, 17.	2.2	11
648	The Right Place at the Right Time: Seasonal Variation of Bacterial Communities in Arid <i>Avicennia marina</i> Soils in the Red Sea Is Specific to Its Position in the Intertidal. <i>Frontiers in Ecology and Evolution</i> , 2022, 10, .	1.1	3

#	ARTICLE	IF	CITATIONS
649	Cropping practices manipulate soil bacterial structure and functions on the Qinghai-Tibet Plateau. <i>Journal of Plant Physiology</i> , 2022, 271, 153666.	1.6	5
650	Metagenomics highlights the impact of climate and human activities on antibiotic resistance genes in China's estuaries. <i>Environmental Pollution</i> , 2022, 301, 119015.	3.7	20
651	Microbial functional genes influenced by short-term experimental drought across European agricultural fields. <i>Soil Biology and Biochemistry</i> , 2022, 168, 108650.	4.2	6
652	Abundant and rare microbiota assembly and driving factors between mangrove and intertidal mudflats. <i>Applied Soil Ecology</i> , 2022, 174, 104438.	2.1	11
653	Regional-scale evidence that determinants of soil microbial biomass and N mineralization depend on sampling depth and layer on the Mongolian Plateau. <i>Catena</i> , 2022, 213, 106180.	2.2	4
654	Response of microbial communities and their metabolic functions to calcareous succession process. <i>Science of the Total Environment</i> , 2022, 825, 154020.	3.9	5
655	Topographic attributes override impacts of agronomic practices on prokaryotic community structure. <i>Applied Soil Ecology</i> , 2022, 175, 104446.	2.1	2
656	Organic amendments enhance soil microbial diversity, microbial functionality and crop yields: A meta-analysis. <i>Science of the Total Environment</i> , 2022, 829, 154627.	3.9	42
657	Pedogenesis shapes predator-prey relationships within soil microbiomes. <i>Science of the Total Environment</i> , 2022, 828, 154405.	3.9	4
658	Multiple factors drive imbalance in the global microbial assemblage in soil. <i>Science of the Total Environment</i> , 2022, 831, 154920.	3.9	5
659	Metagenomics reveals divergent functional profiles of soil carbon and nitrogen cycling under long-term addition of chemical and organic fertilizers in the black soil region. <i>Geoderma</i> , 2022, 418, 115846.	2.3	47
660	Characterising the diversity and functionality of the microbial community within biocrusts associated with different vegetation communities and soil habitats. <i>Applied Soil Ecology</i> , 2022, 175, 104458.	2.1	7
661	Slope-induced factors shape bacterial communities in surface soils in a forested headwater catchment. <i>Catena</i> , 2022, 214, 106253.	2.2	6
662	Land use driven change in soil organic carbon affects soil microbial community assembly in the riparian of Three Gorges Reservoir Region. <i>Applied Soil Ecology</i> , 2022, 176, 104467.	2.1	5
666	Fungi as mediators linking organisms and ecosystems. <i>FEMS Microbiology Reviews</i> , 2022, 46, .	3.9	47
669	Site and land-use associations of soil bacteria and fungi define core and indicative taxa. <i>FEMS Microbiology Ecology</i> , 2022, 97, .	1.3	16
670	Bacteria Respond Stronger Than Fungi Across a Steep Wood Ash-Driven pH Gradient. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	1.0	7
671	Harnessing Synergistic Biostimulatory Processes: A Plausible Approach for Enhanced Crop Growth and Resilience in Organic Farming. <i>Biology</i> , 2022, 11, 41.	1.3	23

#	ARTICLE	IF	CITATIONS
672	Strong reorganization of multi-domain microbial networks associated with primary producers sedimentation from oxic to anoxic conditions in an hypersaline lake. <i>FEMS Microbiology Ecology</i> , 2022, 97, .	1.3	3
673	Soil Quality Restoration during the Natural Succession of Abandoned Cattle Pastures in Deforested Landscapes in the Colombian Amazon. <i>Agronomy</i> , 2021, 11, 2484.	1.3	5
674	Illuminate the hidden: in vivo mapping of microscale pH in the mycosphere using a novel whole-cell biosensor. <i>ISME Communications</i> , 2021, 1, .	1.7	4
675	Endophytic Fungi: From Symbiosis to Secondary Metabolite Communications or Vice Versa?. <i>Frontiers in Plant Science</i> , 2021, 12, 791033.	1.7	62
676	Characteristics of fungal communities and the sources of mold contamination in mildewed tobacco leaves stored under different climatic conditions. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 131-144.	1.7	6
677	The National Ecological Observatory Network's soil metagenomes: assembly and basic analysis. <i>F1000Research</i> , 0, 10, 299.	0.8	2
678	Best practices in metabarcoding of fungi: From experimental design to results. <i>Molecular Ecology</i> , 2022, 31, 2769-2795.	2.0	87
679	Soil bacteria around a derelict tailings pile with different metal pollution gradients: community composition, metal tolerance and influencing factors. <i>Environmental Science and Pollution Research</i> , 2022, , .	2.7	3
680	Phyllosphere Microorganisms: Sources, Drivers, and Their Interactions with Plant Hosts. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 4860-4870.	2.4	38
682	The parameters determining hyperaccumulator rhizobacteria diversity depend on the study scale. <i>Science of the Total Environment</i> , 2022, 834, 155274.	3.9	4
683	Temporal Dynamics of Bacterial Communities along a Gradient of Disturbance in a U.S. Southern Plains Agroecosystem. <i>MBio</i> , 2022, 13, e0382921.	1.8	4
684	Plasmid-Mediated Transfer of Antibiotic Resistance Genes in Soil. <i>Antibiotics</i> , 2022, 11, 525.	1.5	27
685	An Overview of Antibiotic Resistance and Abiotic Stresses Affecting Antimicrobial Resistance in Agricultural Soils. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4666.	1.2	19
686	Soil microbial distribution and assembly are related to vegetation biomass in the alpine permafrost regions of the Qinghai-Tibet Plateau. <i>Science of the Total Environment</i> , 2022, 834, 155259.	3.9	24
687	Impact of Climate and Slope Aspects on the Composition of Soil Bacterial Communities Involved in Pedogenetic Processes along the Chilean Coastal Cordillera. <i>Microorganisms</i> , 2022, 10, 847.	1.6	7
688	Farm-scale differentiation of active microbial colonizers. <i>ISME Communications</i> , 2022, 2, .	1.7	1
689	Nonpoint Source Pollution (NPSP) Induces Structural and Functional Variation in the Fungal Community of Sediments in the Jialing River, China. <i>Microbial Ecology</i> , 2023, 85, 1308-1322.	1.4	5
690	The Influence of Coalescent Microbiotic Particles From Water and Soil on the Evolution and Spread of Antimicrobial Resistance. <i>Frontiers in Environmental Science</i> , 2022, 10, .	1.5	7

#	ARTICLE	IF	CITATIONS
691	Fungal necromass contributes more to soil organic carbon and more sensitive to land use intensity than bacterial necromass. <i>Applied Soil Ecology</i> , 2022, 176, 104492.	2.1	12
692	Changes in the soil nematode community among climate zones do not keep pace with changes in plant communities. <i>Catena</i> , 2022, 215, 106319.	2.2	3
731	Advanced research tools for fungal diversity and its impact on forest ecosystem. <i>Environmental Science and Pollution Research</i> , 2022, 29, 45044-45062.	2.7	12
732	Remarkable effects of microbial factors on soil phosphorus bioavailability: A country-scale study. <i>Global Change Biology</i> , 2022, 28, 4459-4471.	4.2	35
735	Long-Term Chili Monoculture Alters Environmental Variables Affecting the Dominant Microbial Community in Rhizosphere Soil. <i>Frontiers in Microbiology</i> , 2021, 12, 681953.	1.5	12
737	Soil ^{sc} DNA _{sc} chronosequence analysis shows bacterial community re-assembly following post-mining forest rehabilitation. <i>Restoration Ecology</i> , 2023, 31, .	1.4	3
738	Gut microbiota of ring-tailed lemurs (<i>Lemur catta</i>) vary across natural and captive populations and correlate with environmental microbiota. <i>Animal Microbiome</i> , 2022, 4, 29.	1.5	24
739	Factors driving the assembly of prokaryotic communities in bulk soil and rhizosphere of <i>Torreya grandis</i> along a 900-year age gradient. <i>Science of the Total Environment</i> , 2022, 837, 155573.	3.9	7
740	Direct and indirect effects of fire on microbial communities in a pyrodiverse dry sclerophyll forest. <i>Journal of Ecology</i> , 2022, 110, 1687-1703.	1.9	9
741	Functional Redundancy in Soil Microbial Community Based on Metagenomics Across the Globe. <i>Frontiers in Microbiology</i> , 2022, 13, 878978.	1.5	15
742	Investigation of soil microbiota reveals variable dominant species at different land areas in China. <i>Biotechnology and Biotechnological Equipment</i> , 2022, 36, 245-255.	0.5	4
743	Microbial community functioning during plant litter decomposition. <i>Scientific Reports</i> , 2022, 12, 7451.	1.6	12
744	Changes in Alpine Soil Bacterial Communities With Altitude and Slopes at Mount Shergyla, Tibetan Plateau: Diversity, Structure, and Influencing Factors. <i>Frontiers in Microbiology</i> , 2022, 13, .	1.5	6
745	Bacterial Colonisation: From Airborne Dispersal to Integration Within the Soil Community. <i>Frontiers in Microbiology</i> , 2022, 13, .	1.5	6
746	Manure application: A trigger for vertical accumulation of antibiotic resistance genes in cropland soils. <i>Ecotoxicology and Environmental Safety</i> , 2022, 237, 113555.	2.9	20
747	Increasing contribution of microbial residues to soil organic carbon in grassland restoration chronosequence. <i>Soil Biology and Biochemistry</i> , 2022, 170, 108688.	4.2	62
748	Mercury drives microbial community assembly and ecosystem multifunctionality across a Hg contamination gradient in rice paddies. <i>Journal of Hazardous Materials</i> , 2022, 435, 129055.	6.5	23
749	Interactions between bacteria and eukaryotic microorganisms and their response to soil properties and heavy metal exchangeability nearby a coal-fired power plant. <i>Chemosphere</i> , 2022, 302, 134829.	4.2	14

#	ARTICLE	IF	CITATIONS
750	Environmental drivers of soil microbial activity and diversity along an elevational gradient. <i>Journal of Mountain Science</i> , 2022, 19, 1336-1347.	0.8	4
752	Effects of saline-alkali stress on bacterial and fungal community diversity in <i>Leymus chinensis</i> rhizosphere soil. <i>Environmental Science and Pollution Research</i> , 2022, , .	2.7	7
753	Distinct strategies of the habitat generalists and specialists in sediment of Tibetan lakes. <i>Environmental Microbiology</i> , 2022, 24, 4153-4166.	1.8	12
754	Nanopore sequencing of full <scp>rRNA</scp> operon improves resolution in mycobiome analysis and reveals high diversity in both human gut and environments. <i>Molecular Ecology</i> , 2023, 32, 6330-6344.	2.0	10
757	Machine learning predicts ecological risks of nanoparticles to soil microbial communities. <i>Environmental Pollution</i> , 2022, 307, 119528.	3.7	10
758	Fungalâ€Bacterial Networks in the Habitat of SongRong (<i>Tricholoma matsutake</i>) and Driving Factors of Their Distribution Rules. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 575.	1.5	3
759	<i>Fusarium</i> fruiting body microbiome member <i>Pantoea agglomerans</i> inhibits fungal pathogenesis by targeting lipid rafts. <i>Nature Microbiology</i> , 2022, 7, 831-843.	5.9	44
760	Effects of soil protists on the antibiotic resistome under long term fertilization. <i>Environmental Pollution</i> , 2022, 307, 119516.	3.7	4
761	Effects of Climatic and Edaphic Conditions OnÂStructuring Patterns of Soil Nematode Communities in Japanese Cedar (<i>Cryptomeria Japonica</i>) Plantations. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
762	Halving Gypsum Dose by <i>Penicillium Oxalicum</i> on Alkaline Neutralization and Microbial Community Reconstruction in Bauxite Residue. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
763	Soil Depth Exerts Stronger Impact on Bacterial Community than Elevation in Subtropical Forests of Huangshan Mountain. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
765	Reductive Soil Disinfestation Enhances Microbial Network Complexity and Function in Intensively Cropped Greenhouse Soil. <i>Horticulturae</i> , 2022, 8, 476.	1.2	7
767	Biological Microbial Interactions from Cooccurrence Networks in a High Mountain Lacustrine District. <i>MSphere</i> , 2022, 7, .	1.3	1
768	A quantitative analysis of microbial community structure-function relationships in plant litter decay. <i>IScience</i> , 2022, 25, 104523.	1.9	5
769	Micron-scale biogeography reveals conservative intra anammox bacteria spatial co-associations. <i>Water Research</i> , 2022, 220, 118640.	5.3	12
770	Global meta-analysis shows progress towards recovery of soil microbiota following revegetation. <i>Biological Conservation</i> , 2022, 272, 109592.	1.9	5
771	Interpreting stoichiometric homeostasis and flexibility of soil microbial biomass carbon, nitrogen, and phosphorus. <i>Ecological Modelling</i> , 2022, 470, 110018.	1.2	3
772	Plastic properties affect the composition of prokaryotic and eukaryotic communities and further regulate the ARGs in their surface biofilms. <i>Science of the Total Environment</i> , 2022, 839, 156362.	3.9	11

#	ARTICLE	IF	CITATIONS
774	Effects of global change and human disturbance on soil carbon cycling in boreal forest: A review. <i>Pedosphere</i> , 2023, 33, 194-211.	2.1	4
775	Land-use change shifts and magnifies seasonal variations of the decomposer system in lowland tropical landscapes. <i>Ecology and Evolution</i> , 2022, 12, .	0.8	4
776	Soil microbial network complexity predicts ecosystem function along elevation gradients on the Tibetan Plateau. <i>Soil Biology and Biochemistry</i> , 2022, 172, 108766.	4.2	80
777	A roadmap to understanding diversity and function of coral reef-associated fungi. <i>FEMS Microbiology Reviews</i> , 2022, 46, .	3.9	8
779	Ecological Drivers of the Soil Microbial Diversity and Composition in Primary Old-Growth Forest and Secondary Woodland in a Subtropical Evergreen Broad-Leaved Forest Biome in the Ailao Mountains, China. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	3
780	Spatial pattern of functional genes abundance reveals the importance of PhoD gene harboring bacterial community for maintaining plant growth in the tropical forest of Southwestern China. <i>Science of the Total Environment</i> , 2022, 842, 156863.	3.9	2
781	Continental-scale niche differentiation of dominant topsoil archaea in drylands. <i>Environmental Microbiology</i> , 2022, 24, 5483-5497.	1.8	3
782	Effects of short-interval reburns in the boreal forest on soil bacterial communities compared to long-interval reburns. <i>FEMS Microbiology Ecology</i> , 2022, 98, .	1.3	3
783	Characterization of antibiotic resistance genes in drinking water sources of the Douhe Reservoir, Tangshan, northern China: the correlation with bacterial communities and environmental factors. <i>Environmental Sciences Europe</i> , 2022, 34, .	2.6	11
784	A Comprehensive Insight of Current and Future Challenges in Large-Scale Soil Microbiome Analyses. <i>Microbial Ecology</i> , 0, , .	1.4	0
785	Biotic responses to climate extremes in terrestrial ecosystems. <i>IScience</i> , 2022, 25, 104559.	1.9	18
786	Linkages between the temperature sensitivity of soil respiration and microbial life strategy are dependent on sampling season. <i>Soil Biology and Biochemistry</i> , 2022, 172, 108758.	4.2	30
787	Competing drivers of soil microbial community assembly in a cold arid zone and their implications on constraints of n-alkane proxies. <i>Chemical Geology</i> , 2022, 606, 120985.	1.4	1
788	Erosion-deposition positively reconstruct the bacterial community and negatively weaken the fungal community. <i>Catena</i> , 2022, 217, 106471.	2.2	8
789	Fungal biodiversity in commercial table olive packages. <i>Food Microbiology</i> , 2022, 107, 104082.	2.1	4
790	Soil macrofauna, mesofauna and microfauna and their relationship with soil quality in agricultural areas in northern Colombia: ecological implications. <i>Revista Brasileira De Ciencia Do Solo</i> , 2022, 46, .	0.5	4
791	Ecological clusters of soil taxa within bipartite networks are highly sensitive to climatic conditions in global drylands. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, .	1.8	4
792	Bacterial Metabolic Potential in Response to Climate Warming Alters the Decomposition Process of Aquatic Plant Litter in Shallow Lake Mesocosms. <i>Microorganisms</i> , 2022, 10, 1327.	1.6	0

#	ARTICLE	IF	CITATIONS
793	Soil Microbial Community Varied with Vegetation Types on a Small Regional Scale of the Qilian Mountains. Sustainability, 2022, 14, 7910.	1.6	1
794	Structural and functional characteristics of soil microbial community in a <i>Pinus massoniana</i> forest at different elevations. PeerJ, 0, 10, e13504.	0.9	3
795	Antibiotics and antibiotic resistance genes in agricultural soils: A systematic analysis. Critical Reviews in Environmental Science and Technology, 2023, 53, 847-864.	6.6	61
797	Community structure and co-occurrence network analysis of bacteria and fungi in wheat fields vs fruit orchards. Archives of Microbiology, 2022, 204, .	1.0	5
798	Reduced chemodiversity suppresses rhizosphere microbiome functioning in the mono-cropped agroecosystems. Microbiome, 2022, 10, .	4.9	26
799	Shifts in Soil Microbial Community Composition, Function, and Co-occurrence Network of <i>Phragmites australis</i> in the Yellow River Delta. Frontiers in Microbiology, 0, 13, .	1.5	4
800	The effects of soil properties, cropping systems and geographic location on soil prokaryotic communities in four maize production regions across China. Journal of Integrative Agriculture, 2022, 21, 2145-2157.	1.7	1
801	Response of soil microbial activities and ammonia oxidation potential to environmental factors in a typical antimony mining area. Journal of Environmental Sciences, 2023, 127, 767-779.	3.2	10
802	Pollution pressure and soil depth drive prokaryotic microbial assemblage and co-occurrence patterns in an organic polluted site. Journal of Hazardous Materials, 2022, 438, 129570.	6.5	8
803	Bacterial community structure and functions in microhabitats associated with black stones in Black Gobi desert, China. Ecological Indicators, 2022, 142, 109168.	2.6	4
804	Mixed planting reduces the shaping ability of legume cover crop on soil microbial community structure. Applied Soil Ecology, 2022, 178, 104581.	2.1	4
805	Direct N ₂ O emissions from global tea plantations and mitigation potential by climate-smart practices. Resources, Conservation and Recycling, 2022, 185, 106501.	5.3	13
806	Disentangling the assembly mechanisms of bacterial communities in a transition zone between the alpine steppe and alpine meadow ecosystems on the Tibetan Plateau. Science of the Total Environment, 2022, 847, 157446.	3.9	5
807	Microbial Multitrophic Communities Drive the Variation of Antibiotic Resistome in the Gut of Soil Woodlice (Crustacea: Isopoda). Environmental Science & Technology, 2022, 56, 15034-15043.	4.6	8
808	Salinity of irrigation water selects distinct bacterial communities associated with date palm (Phoenix) Tj ETQq0 0 0 jgBT /Overlock 10 Tf	1.8	5
809	Altitudinal Variation Influences Soil Fungal Community Composition and Diversity in Alpine Gorge Region on the Eastern Qinghai Tibetan Plateau. Journal of Fungi (Basel, Switzerland), 2022, 8, 807.	1.5	9
810	Diversity and Potential Function of the Bacterial Rhizobiome Associated to <i>Physalis Ixocarpa</i> Broth. in a Milpa System, in Michoacan, Mexico. Agronomy, 2022, 12, 1780.	1.3	2
811	Great gerbil burrowing-induced microbial diversity shapes the rhizosphere soil microenvironments of <i>Haloxydon ammodendron</i> in temperate deserts. Frontiers in Microbiology, 0, 13, .	1.5	0

#	ARTICLE	IF	CITATIONS
812	Climate Change and its Influence on Soil Microbial Community. , 2022, , 90-102.		0
814	Global patterns in endemism and vulnerability of soil fungi. <i>Global Change Biology</i> , 2022, 28, 6696-6710.	4.2	41
815	Soil microbiomes and one health. <i>Nature Reviews Microbiology</i> , 2023, 21, 6-20.	13.6	163
816	The influence of soil development on the depth distribution and structure of soil microbial communities. <i>Soil Biology and Biochemistry</i> , 2022, 174, 108808.	4.2	14
817	Large-scale microbiome analysis reveals bacterial community characteristics in typical Chinese herbal slices. , 2022, 77, 3565-3580.		2
818	Does Plant Identity Affect the Dispersal of Resistomes Above and Below Ground?. <i>Environmental Science & Technology</i> , 2022, 56, 14904-14912.	4.6	8
819	Most countries are vulnerable to novel pest invasions and under-report the diversity of tree pests. <i>Global Ecology and Biogeography</i> , 2022, 31, 2314-2322.	2.7	0
820	Molecular evidence for stimulation of methane oxidation in Amazonian floodplains by ammonia-oxidizing communities. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	1
821	A systematic, complexity-reduction approach to dissect the kombucha tea microbiome. <i>ELife</i> , 0, 11, .	2.8	7
822	Moisture Controls the Suppression of <i>Panax notoginseng</i> Root Rot Disease by Indigenous Bacterial Communities. <i>MSystems</i> , 2022, 7, .	1.7	4
823	Microbial cooperation promotes humification to reduce antibiotic resistance genes abundance in food waste composting. <i>Bioresource Technology</i> , 2022, 362, 127824.	4.8	12
824	Microbiome engineering for bioremediation of emerging pollutants. <i>Bioprocess and Biosystems Engineering</i> , 2023, 46, 323-339.	1.7	2
825	Biodegradable microplastics impact the uptake of Cd in rice: The roles of niche breadth and assembly process. <i>Science of the Total Environment</i> , 2022, 851, 158222.	3.9	10
826	Occurrence of methane-oxidizing bacteria and methanogenic archaea in earth's cave systems: A metagenomic analysis. <i>Frontiers in Ecology and Evolution</i> , 0, 10, .	1.1	1
827	Fungi stabilize multi-kingdom community in a high elevation timberline ecosystem. , 2022, 1, .		19
828	Fungivorous nematodes drive microbial diversity and carbon cycling in soil. <i>Ecology</i> , 2023, 104, .	1.5	16
829	Additions of <i>Liriodendron sino-americanum</i> Leaf Powder Change Soil Quality, Improve <i>Sarcandra glabra</i> Growth, and Alter Microbial Community. <i>Journal of Soil Science and Plant Nutrition</i> , 0, , .	1.7	1
830	Interaction among soil nutrients, plant diversity and hypogeal fungal trophic guild modifies root-associated fungal diversity in coniferous forests of Chinese Southern Himalayas. <i>Plant and Soil</i> , 2022, 481, 395-408.	1.8	9

#	ARTICLE	IF	CITATIONS
831	Latitudinal Dynamics of <i>Vibrio</i> along the Eastern Coastline of Australia. <i>Water (Switzerland)</i> , 2022, 14, 2510.	1.2	2
832	Chilean blind spots in soil biodiversity and ecosystem function research. <i>Austral Ecology</i> , 2022, 47, 1372-1381.	0.7	5
833	Linking soil bacterial community assembly with the composition of organic carbon during forest succession. <i>Soil Biology and Biochemistry</i> , 2022, 173, 108790.	4.2	13
834	Microcystin-LR exposure enhances toxin-degrading capacity and reduces metabolic diversity of sediment microbial communities. <i>Environmental Pollution</i> , 2022, 311, 119947.	3.7	2
835	Long-term soil management practices influence the rhizosphere microbial community structure and bacterial function of hilly apple orchard soil. <i>Applied Soil Ecology</i> , 2022, 180, 104627.	2.1	11
836	Aerobiology over the Southern Ocean – Implications for bacterial colonization of Antarctica. <i>Environment International</i> , 2022, 169, 107492.	4.8	6
837	Deciphering discriminative antibiotic resistance genes and pathogens in agricultural soil following chemical and organic fertilizer. <i>Journal of Environmental Management</i> , 2022, 322, 116110.	3.8	5
838	Effects of climatic and edaphic conditions on structuring patterns of soil nematode communities in Japanese cedar (<i>Cryptomeria japonica</i>) plantations. <i>Forest Ecology and Management</i> , 2022, 524, 120518.	1.4	3
839	Soil microbial community under bryophytes in different substrates and its potential to degraded karst ecosystem restoration. <i>International Biodeterioration and Biodegradation</i> , 2022, 175, 105493.	1.9	3
840	Soil depth exerts stronger impact on bacterial community than elevation in subtropical forests of Huangshan Mountain. <i>Science of the Total Environment</i> , 2022, 852, 158438.	3.9	11
841	Assessment of bioremediation potential of petroleum-contaminated soils from the shanbei oilfield of China revealed by qPCR and high throughput sequencing. <i>Chemosphere</i> , 2022, 308, 136446.	4.2	7
842	Distinct roles for soil bacterial and fungal communities associated with the availability of carbon and phosphorus under aerated drip irrigation. <i>Agricultural Water Management</i> , 2022, 274, 107925.	2.4	13
843	Anthropogenic degradation alter surface soil biogeochemical pools and microbial communities in an Andean temperate forest. <i>Science of the Total Environment</i> , 2023, 854, 158508.	3.9	4
844	Halving gypsum dose by <i>Penicillium oxalicum</i> on alkaline neutralization and microbial community reconstruction in bauxite residue. <i>Chemical Engineering Journal</i> , 2023, 451, 139008.	6.6	21
845	Soil Microbiome: Characteristics, Impact of Climate Change and Resilience. , 2022, , 285-313.		1
846	Contrasting Effects of Two Phenotypes of an Alpine Cushion Plant on Understory Species Drive Community Assembly. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
847	Slope Position Mediates the Co-Utilization of Phosphorus by Plants and Microbes Through Rhizosphere Processes in a Phosphorus-Limited Forest. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
848	Removal of Antibiotic Resistance Genes and Mobile Genetic Elements in a Three-Stage Pig Manure Management System: The Implications of Microbial Community Structure. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
849	Fungal communities in soils under global change. <i>Studies in Mycology</i> , 2022, 103, 1-24.	4.5	13
850	Host species and microplastics differentiate the crop root endophytic antibiotic resistome. <i>Journal of Hazardous Materials</i> , 2023, 442, 130091.	6.5	8
851	Effects of combined application of nitrogen, phosphorus, and potassium fertilizers on tea (<i>Camellia</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.1	12
852	Distribution of Core Root Microbiota of Tibetan Hulless Barley along an Altitudinal and Geographical Gradient in the Tibetan Plateau. <i>Microorganisms</i> , 2022, 10, 1737.	1.6	2
853	Recovery of soil microbial diversity and functions along a tropical montane forest disturbance gradient. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	1
854	The biogeography of relative abundance of soil fungi versus bacteria in surface topsoil. <i>Earth System Science Data</i> , 2022, 14, 4339-4350.	3.7	15
855	Microbial diversity declines in warmed tropical soil and respiration rise exceed predictions as communities adapt. <i>Nature Microbiology</i> , 2022, 7, 1650-1660.	5.9	39
856	Biogeographical Patterns and Assembly of Bacterial Communities in Saline Soils of Northeast China. <i>Microorganisms</i> , 2022, 10, 1787.	1.6	4
857	Current Challenges and Pitfalls in Soil Metagenomics. <i>Microorganisms</i> , 2022, 10, 1900.	1.6	6
859	Effects of Irrigation Using Activated Brackish Water on the Bacterial Community Structure of Rhizosphere Soil. <i>Journal of Soil Science and Plant Nutrition</i> , 2022, 22, 4008-4023.	1.7	4
860	Preliminary Research on Agricultural Cultivation Decreasing Amino Sugar Accumulation in Calcareous Soils in Subtropical Karst Region of China. <i>Land</i> , 2022, 11, 1684.	1.2	0
861	Geodiversity inclusiveness in biodiversity assessment. <i>Progress in Physical Geography</i> , 2023, 47, 414-437.	1.4	6
862	Aridity differentially alters the stability of soil bacterial and fungal networks in coastal and inland areas of Australia. <i>Environmental Microbiology</i> , 2022, 24, 5574-5582.	1.8	2
863	Geographically Associated Fungus-Bacterium Interactions Contribute to the Formation of Geography-Dependent Flavor during High-Complexity Spontaneous Fermentation. <i>Microbiology Spectrum</i> , 2022, 10, .	1.2	27
864	Decoupled Asian monsoon intensity and precipitation during glacial-interglacial transitions on the Chinese Loess Plateau. <i>Nature Communications</i> , 2022, 13, .	5.8	9
865	Different Distribution of Core Microbiota in Upper Soil Layer in Two Places of North China Plain. <i>Open Microbiology Journal</i> , 2022, 16, .	0.2	1
866	Root phenotypes as modulators of microbial microhabitats. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	11
867	Effects of source sample amount on biodiversity surveys of bacteria, fungi, and nematodes in soil ecosystems. <i>Frontiers in Ecology and Evolution</i> , 0, 10, .	1.1	2

#	ARTICLE	IF	CITATIONS
868	Connecting environmental and evolutionary microbiology for the development of new agrobiotechnological tools. <i>Environmental Microbiology</i> , 2023, 25, 87-90.	1.8	4
869	Microbial community structure and niche differentiation under different health statuses of <i>Pinus bungeana</i> in the Xiong'an New Area in China. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	4
870	Defending Earth's terrestrial microbiome. <i>Nature Microbiology</i> , 2022, 7, 1717-1725.	5.9	46
871	Ecological processes differ in community assembly of Archaea, Bacteria and Eukaryotes in a biogeographical survey of groundwater habitats in the Quebec region (Canada). <i>Environmental Microbiology</i> , 2022, 24, 5898-5910.	1.8	3
872	Benchmarking Community-Wide Estimates of Growth Potential from Metagenomes Using Codon Usage Statistics. <i>MSystems</i> , 2022, 7, .	1.7	4
873	Environmental microbiology going computational – predictive ecology and unpredicted discoveries. <i>Environmental Microbiology</i> , 0, , .	1.8	1
874	Changes in the population and functional profile of bacteria and fungi in the rhizosphere of <i>Suaeda salsa</i> is driven by invasion of <i>Spartina alterniflora</i> . <i>Ecological Indicators</i> , 2022, 144, 109516.	2.6	7
875	Diversity of Arbuscular Mycorrhizal Fungi in the Ecuadorian Amazon Region. <i>Fungal Biology</i> , 2022, , 141-170.	0.3	1
876	Gaps in South American Mycorrhizal Biodiversity and Ecosystem Function Research. <i>Fungal Biology</i> , 2022, , 445-461.	0.3	0
877	Causes and consequences of differences in soil and seed microbiomes for two alpine plants. <i>Oecologia</i> , 0, , .	0.9	0
878	AsgeneDB: a curated orthology arsenic metabolism gene database and computational tool for metagenome annotation. <i>NAR Genomics and Bioinformatics</i> , 2022, 4, .	1.5	2
879	The grassland carbon cycle: Mechanisms, responses to global changes, and potential contribution to carbon neutrality. <i>Fundamental Research</i> , 2023, 3, 209-218.	1.6	18
880	LotuS2: an ultrafast and highly accurate tool for amplicon sequencing analysis. <i>Microbiome</i> , 2022, 10, .	4.9	22
881	Pathways for Understanding Blue Carbon Microbiomes with Amplicon Sequencing. <i>Microorganisms</i> , 2022, 10, 2121.	1.6	2
882	Carbon and Nitrogen Availability Drives Seasonal Variation in Soil Microbial Communities along an Elevation Gradient. <i>Forests</i> , 2022, 13, 1657.	0.9	8
883	Treated like dirt: Robust forensic and ecological inferences from soil <i>eDNA</i> after challenging sample storage. <i>Environmental DNA</i> , 2023, 5, 158-174.	3.1	6
884	Shifts in soil prokaryotic and microeukaryotic communities following a translocation of wet meadows to derelict land. <i>Land Degradation and Development</i> , 2023, 34, 885-898.	1.8	1
885	Global airborne bacterial community interactions with Earth's microbiomes and anthropogenic activities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	29

#	ARTICLE	IF	CITATIONS
886	Identification of PKS Gene Clusters from Metagenomic Libraries Using a Next-Generation Sequencing Approach. <i>Methods in Molecular Biology</i> , 2023, , 73-90.	0.4	0
887	Divergent Changes in Bacterial Functionality as Affected by Root-Zone Ecological Restoration in an Aged Peach Orchard. <i>Microorganisms</i> , 2022, 10, 2127.	1.6	2
888	A combined study on <i>Vallisneria spiralis</i> and lanthanum modified bentonite to immobilize arsenic in sediments. <i>Environmental Research</i> , 2023, 216, 114689.	3.7	4
889	Geographic imprint and ecological functions of the abiotic component of periphytic biofilms. , 2022, 1, .		4
890	Response of soil viral communities to land use changes. <i>Nature Communications</i> , 2022, 13, .	5.8	25
891	Efficacy of metallic nanoparticles in attenuating the accumulation and toxicity of chromium in plants: Current knowledge and future perspectives. <i>Environmental Pollution</i> , 2022, 315, 120390.	3.7	31
892	Characteristics and interactions of soil bacteria, phytocommunity and soil properties in rocky desertification ecosystems of Southwest China. <i>Catena</i> , 2023, 220, 106731.	2.2	7
893	Decay of fallen wood and elevation affects soil fungal community assembly and indirectly controls community diversity. <i>Applied Soil Ecology</i> , 2023, 182, 104683.	2.1	6
894	Comparative Genomics of the Genus <i>Pseudomonas</i> Reveals Host- and Environment-Specific Evolution. <i>Microbiology Spectrum</i> , 2022, 10, .	1.2	11
895	Application of ¹⁵ N tracing and bioinformatics for estimating microbial-mediated nitrogen cycle processes in oil-contaminated soils. <i>Environmental Research</i> , 2023, 217, 114799.	3.7	5
896	Linking bacterial and fungal assemblages to soil nutrient cycling within different aggregate sizes in agroecosystem. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	1
897	Biogeographical patterns of abundant and rare bacterial biospheres in paddy soils across East Asia. <i>Environmental Microbiology</i> , 2023, 25, 294-305.	1.8	2
898	Understanding global and regional patterns of termite diversity and regional functional traits. <i>IScience</i> , 2022, 25, 105538.	1.9	3
900	Global biogeography and projection of soil antibiotic resistance genes. <i>Science Advances</i> , 2022, 8, .	4.7	38
901	Microbial cell membrane properties and intracellular metabolism regulate individual level microbial responses to acid stress. <i>Soil Biology and Biochemistry</i> , 2023, 177, 108883.	4.2	6
902	Spatial Heterogeneity of Soil Bacterial Community Structure and Enzyme Activity along an Altitude Gradient in the Fanjingshan Area, Northeastern Guizhou Province, China. <i>Life</i> , 2022, 12, 1862.	1.1	3
903	Bacteria common to rhizosphere communities of Asiatic bittersweet across a post-glacial landscape. <i>Frontiers in Ecology and Evolution</i> , 0, 10, .	1.1	0
904	Latitudinal shifts of soil microbial biomass seasonality. , 2022, 1, .		1

#	ARTICLE	IF	CITATIONS
905	Contrasting effects of two phenotypes of an alpine cushion plant on understory species drive community assembly. <i>Science of the Total Environment</i> , 2022, , 160154.	3.9	3
906	Frontiers in soil ecologyâ€”Insights from the World Biodiversity Forum 2022. , 2022, 1, 245-261.		11
907	Depth-dependent patterns of soil microbial community in the E-waste dismantling area. <i>Journal of Hazardous Materials</i> , 2023, 444, 130379.	6.5	13
908	Coupling of leaf elemental traits with root fungal community composition reveals a plant resource acquisition strategy in a desert ecosystem. <i>Plant and Soil</i> , 2023, 484, 115-131.	1.8	1
909	Dynamic analysis of the microbial communities and metabolome of healthy banana rhizosphere soil during one growth cycle. <i>PeerJ</i> , 0, 10, e14404.	0.9	3
910	Soil water status shapes nutrient cycling in agroecosystems from micrometer to landscape scales. <i>Journal of Plant Nutrition and Soil Science</i> , 2022, 185, 773-792.	1.1	6
911	Fate of antibiotic resistance genes in cultivation substrate and its association with bacterial communities throughout commercial production of <i>Agaricus bisporus</i> . <i>Ecotoxicology and Environmental Safety</i> , 2023, 249, 114360.	2.9	2
912	New insights into microbial community coalescence in the land-sea continuum. <i>Microbiological Research</i> , 2023, 267, 127259.	2.5	2
913	Soil aggregate development and associated microbial metabolic limitations alter grassland carbon storage following livestock removal. <i>Soil Biology and Biochemistry</i> , 2023, 177, 108907.	4.2	16
914	Different effects of litter and root inputs on soil enzyme activities in terrestrial ecosystems. <i>Applied Soil Ecology</i> , 2023, 183, 104764.	2.1	12
915	A review of nematodes as biological indicators of sustainable functioning for northern soils undergoing land-use conversion. <i>Applied Soil Ecology</i> , 2023, 183, 104762.	2.1	2
916	Dispersal limitation and host selection drive geo-specific and plant-specific differentiation of soil bacterial communities in the Tibetan alpine ecosystem. <i>Science of the Total Environment</i> , 2023, 863, 160944.	3.9	1
917	Slope position mediates the co-utilization of phosphorus by plants and microbes through rhizosphere processes in a phosphorus-limited forest. <i>Catena</i> , 2023, 222, 106808.	2.2	2
918	â„â„1/2â„;æ””â„™â„CE°â„†-â„â„,â„â„1/2â„â„...â„â„â„†...â„3/4â„â„ç””ÿç%â„©ç%â„1â„3/4â„; Chinese Science Bulletin, 2022, , .	0.4	0
919	Influence of salinity on the diversity and composition of carbohydrate metabolism, nitrogen and sulfur cycling genes in lake surface sediments. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	7
920	Standardized multi-omics of Earthâ€™s microbiomes reveals microbial and metabolite diversity. <i>Nature Microbiology</i> , 2022, 7, 2128-2150.	5.9	48
921	Grazing and ecosystem service delivery in global drylands. <i>Science</i> , 2022, 378, 915-920.	6.0	81
922	Microbial communities in tree root-compartment niches under Cd and Zn pollution: Structure, assembly process and co-occurrence relationship. <i>Science of the Total Environment</i> , 2023, 860, 160273.	3.9	5

#	ARTICLE	IF	CITATIONS
923	Impact of Drip Irrigation and Nitrogen Fertilization on Soil Microbial Diversity of Spring Maize. <i>Plants</i> , 2022, 11, 3206.	1.6	5
924	Genomic analysis of sewage from 101 countries reveals global landscape of antimicrobial resistance. <i>Nature Communications</i> , 2022, 13, .	5.8	64
925	The global distribution and environmental drivers of the soil antibiotic resistome. <i>Microbiome</i> , 2022, 10, .	4.9	21
926	Protists, Unexpected Players in Waterborne Antibiotic Resistance?. <i>Reviews of Environmental Contamination and Toxicology</i> , 2022, 260, .	0.7	1
927	The Effects of <i>Suillus luteus</i> Inoculation on the Diversity of Fungal Communities and Their Structures in the Soil under <i>Pinus massoniana</i> Located in a Mining Area. <i>Forests</i> , 2022, 13, 2162.	0.9	2
928	Bio-Organic Fertilizer Promotes Pear Yield by Shaping the Rhizosphere Microbiome Composition and Functions. <i>Microbiology Spectrum</i> , 2022, 10, .	1.2	7
929	Metabarcoding Approaches for Soil Eukaryotes, Protists, and Microfauna. <i>Methods in Molecular Biology</i> , 2023, , 1-16.	0.4	2
931	Reducing plant pathogens could increase crop yields after plastic film mulching. <i>Science of the Total Environment</i> , 2023, 861, 160615.	3.9	4
932	The contribution of living organisms to rock weathering in the critical zone. <i>Npj Materials Degradation</i> , 2022, 6, .	2.6	15
933	Evaluating the Effect on Cultivation of Replacing Soil with Typical Soilless Growing Media: A Microbial Perspective. <i>Agronomy</i> , 2023, 13, 6.	1.3	0
934	Microbes modify soil nutrient availability and mediate plant responses to elevated CO ₂ . <i>Plant and Soil</i> , 0, , .	1.8	0
935	The little things that matter: how bioprospecting microbial biodiversity can build towards the realization of United Nations Sustainable Development Goals. , 2022, 1, .		5
936	Changes in Soil Microbial Communities under Mixed Organic and Inorganic Nitrogen Addition in Temperate Forests. <i>Forests</i> , 2023, 14, 21.	0.9	3
937	Temporal dynamics of soil bacterial network regulate soil resistomes. <i>Environmental Microbiology</i> , 2023, 25, 505-514.	1.8	4
938	<i>Populus</i> root exudates are associated with rhizosphere microbial communities and symbiotic patterns. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	9
939	Soil Deformation after Water Drop Impact—A Review of the Measurement Methods. <i>Sensors</i> , 2023, 23, 121.	2.1	0
940	Negative effects of abamectin on soil microbial communities in the short term. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	4
941	How methanotrophs respond to pH: A review of ecophysiology. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	7

#	ARTICLE	IF	CITATIONS
942	Coalâ€¦mining subsidence changed distribution of the microbiomes and their functional genes in a farmland. <i>Journal of Basic Microbiology</i> , 2023, 63, 542-557.	1.8	1
944	Latitude variations of soil bacterial community diversity and composition in three typical forests of temperate, northeastern of China. <i>Frontiers in Earth Science</i> , 0, 10, .	0.8	2
945	Integrating pH into the metabolic theory of ecology to predict bacterial diversity in soil. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, .	3.3	17
946	Discovering untapped microbial communities through metagenomics for microplastic remediation: recent advances, challenges, and way forward. <i>Environmental Science and Pollution Research</i> , 2023, 30, 81450-81473.	2.7	17
947	<i>Ecosystem Microbiome Science</i> . , 2023, 2, 2-10.		11
948	Topographically Distinguished Microbiome Taxonomy and Stress-Response Genes of Royal Belum Rainforest and Raja Muda Musa Peat Swamp Revealed through Metagenomic Inquisition. <i>International Journal of Molecular Sciences</i> , 2023, 24, 872.	1.8	0
949	Metagenomic sequencing combined with flow cytometry facilitated a novel microbial risk assessment framework for bacterial pathogens in municipal wastewater without cultivation. , 2023, 2, .		5
950	Deterministic Effect of pH on Shaping Soil Resistome Revealed by Metagenomic Analysis. <i>Environmental Science & Technology</i> , 2023, 57, 985-996.	4.6	22
951	Functional insights into succession in a phyllospheric microbial community across a full stage of plant litter decomposition in wetlands. <i>Freshwater Science</i> , 0, , .	0.9	2
952	Leaching risk of antibiotic resistance contamination from organic waste compost in rural areas. <i>Environmental Pollution</i> , 2023, 320, 121108.	3.7	10
953	Plant Community Associates with Rare Rather than Abundant Fungal Taxa in Alpine Grassland Soils. <i>Applied and Environmental Microbiology</i> , 0, , .	1.4	0
955	Soil fungal and bacterial community structure in monocultures of fourteen tree species of the temperate zone. <i>Forest Ecology and Management</i> , 2023, 530, 120751.	1.4	3
956	Investigating the eco-evolutionary tunnels for establishing cooperative communities. <i>Mathematical Biosciences</i> , 2023, 356, 108959.	0.9	0
957	Quantifying relative contributions of biotic interactions to bacterial diversity and community assembly by using community characteristics of microbial eukaryotes. <i>Ecological Indicators</i> , 2023, 146, 109841.	2.6	4
958	Effect of metal pollution on the distribution and co-occurrence pattern of bacterial, archaeal and fungal communities throughout the soil profiles. <i>Chemosphere</i> , 2023, 315, 137692.	4.2	8
959	Diversity and assembly of active bacteria and their potential function along soil aggregates in a paddy field. <i>Science of the Total Environment</i> , 2023, 866, 161360.	3.9	2
960	Toxicity sharing model of earthworm intestinal microbiome reveals shared functional genes are more powerful than species in resisting pesticide stress. <i>Journal of Hazardous Materials</i> , 2023, 446, 130646.	6.5	1
961	Seasonality and assembly of soil microbial communities in coastal salt marshes invaded by a perennial grass. <i>Journal of Environmental Management</i> , 2023, 331, 117247.	3.8	6

#	ARTICLE	IF	CITATIONS
962	Microbial assemblies with distinct trophic strategies drive changes in soil microbial carbon use efficiency along vegetation primary succession in a glacier retreat area of the southeastern Tibetan Plateau. <i>Science of the Total Environment</i> , 2023, 867, 161587.	3.9	5
963	The neglected role of micronutrients in predicting soil microbial structure. <i>Npj Biofilms and Microbiomes</i> , 2022, 8, .	2.9	11
964	Does Forest Soil Fungal Community Respond to Short-Term Simulated Nitrogen Deposition in Different Forests in Eastern China?. <i>Journal of Fungi (Basel, Switzerland)</i> , 2023, 9, 53.	1.5	0
965	To assemble or not to assemble: metagenomic profiling of microbially mediated biogeochemical pathways in complex communities. <i>Briefings in Bioinformatics</i> , 2023, 24, .	3.2	2
966	Discrepancies of fungi and plants in the pattern of beta-diversity with environmental gradient imply a comprehensive community assembly rule. <i>FEMS Microbiology Ecology</i> , 2023, 99, .	1.3	2
967	Contrasting Nitrogen Fertilization and <i>Brassica napus</i> (Canola) Variety Development Impact Recruitment of the Root-Associated Microbiome. <i>Phytobiomes Journal</i> , 2023, 7, 125-137.	1.4	2
968	Functional metagenomics profiling of symbiotic microbiome. , 2023, , 691-713.		1
970	Co-contamination by heavy metal and organic pollutant alters impacts of genotypic richness on soil nutrients. <i>Frontiers in Plant Science</i> , 0, 14, .	1.7	2
971	Global diversity and distribution of nitrogen-fixing bacteria in the soil. <i>Frontiers in Plant Science</i> , 0, 14, .	1.7	10
972	Photodegradation and Its Effect on Plant Litter Decomposition in Terrestrial Ecosystems: A Systematic Review. <i>Soil Systems</i> , 2023, 7, 6.	1.0	2
973	Phylogenetic diversity of stochasticity-dominated predatory myxobacterial community drives multi-nutrient cycling in typical farmland soils. <i>Science of the Total Environment</i> , 2023, 871, 161680.	3.9	8
974	Weak environmental adaptation of rare phylotypes sustaining soil multi-element cycles in response to decades-long fertilization. <i>Science of the Total Environment</i> , 2023, 871, 162063.	3.9	4
975	Geographic patterns of microbial traits of river basins in China. <i>Science of the Total Environment</i> , 2023, 871, 162070.	3.9	7
976	Standardized naming of microbiome samples in Genomes OnLine Database. <i>Database: the Journal of Biological Databases and Curation</i> , 2023, 2023, .	1.4	3
977	Rhizosphere Mycobiome: Roles, Diversity, and Dynamics. , 2023, , 47-61.		0
979	Latent antibiotic resistance genes are abundant, diverse, and mobile in human, animal, and environmental microbiomes. <i>Microbiome</i> , 2023, 11, .	4.9	18
981	Evaluating response mechanisms of soil microbiomes and metabolomes to Bt toxin additions. <i>Journal of Hazardous Materials</i> , 2023, 448, 130904.	6.5	0
982	Long-term field application of manure induces deep selection of antibiotic resistomes in leaf endophytes of Chinese cabbage. <i>Science of the Total Environment</i> , 2023, 882, 163334.	3.9	0

#	ARTICLE	IF	CITATIONS
983	Contribution of soil bacteria to the atmosphere across biomes. <i>Science of the Total Environment</i> , 2023, 871, 162137.	3.9	3
984	Mammalian carcass decay increases carbon storage and temporal turnover of carbon-fixing microbes in alpine meadow soil. <i>Environmental Research</i> , 2023, 225, 115653.	3.7	2
985	Soil salinity determines the assembly of endophytic bacterial communities in the roots but not leaves of halophytes in a river delta ecosystem. <i>Geoderma</i> , 2023, 433, 116447.	2.3	7
986	Effects of nitrogen and phosphorus supply levels and ratios on soil microbial diversity-ecosystem multifunctionality relationships in a coastal nontidal wetland. <i>Science of the Total Environment</i> , 2023, 874, 162472.	3.9	5
987	The ecological and molecular mechanism underlying effective reduction of antibiotic resistance genes pollution in soil by fermentation broth from fruit and vegetable waste. <i>Journal of Hazardous Materials</i> , 2023, 451, 131201.	6.5	4
988	Bioengineered microbial strains for detoxification of toxic environmental pollutants. <i>Environmental Research</i> , 2023, 227, 115665.	3.7	6
989	Community rRNA operon copy number of soil bacteria decreases with soil depth and ecosystem succession in postglacial ecosystems. <i>Applied Soil Ecology</i> , 2023, 186, 104817.	2.1	0
990	Changes in soil microbial biomass, diversity, and activity with crop rotation in cropping systems: A global synthesis. <i>Applied Soil Ecology</i> , 2023, 186, 104815.	2.1	10
991	Role of Microbes in the degradation of organic semivolatile compounds in polar ecosystems: A review. <i>Science of the Total Environment</i> , 2023, 879, 163046.	3.9	1
992	Necromass-derived soil organic carbon and its drivers at the global scale. <i>Soil Biology and Biochemistry</i> , 2023, 181, 109025.	4.2	12
993	Specialist species of fungi and bacteria are more important than the intermediate and generalist species in near-urban agricultural soils. <i>Applied Soil Ecology</i> , 2023, 188, 104894.	2.1	1
994	Tracing recent outdoor geolocation by analyzing microbiota from shoe soles and shoeprints even after indoor walking. <i>Forensic Science International: Genetics</i> , 2023, 65, 102869.	1.6	0
995	Drip fertigation with straw incorporation promotes soil microbial network complexity and potentially reduces pathogen abundance in greenhouse vegetable production systems. <i>Agriculture, Ecosystems and Environment</i> , 2023, 351, 108501.	2.5	3
996	Ecosystem sustainability of rice and aquatic animal co-culture systems and a synthesis of its underlying mechanisms. <i>Science of the Total Environment</i> , 2023, 880, 163314.	3.9	7
997	Climate and geochemistry at different altitudes influence soil fungal community aggregation patterns in alpine grasslands. <i>Science of the Total Environment</i> , 2023, 881, 163375.	3.9	2
999	Retention of post-harvest residues enhances soil fungal biodiversity in Eucalyptus plantations. <i>Forest Ecology and Management</i> , 2023, 532, 120806.	1.4	2
1000	Differential responses of canonical nitrifiers and comammox <i>Nitrospira</i> to long-term fertilization in an Alfisol of Northeast China. <i>Frontiers in Microbiology</i> , 0, 14, .	1.5	1
1001	The soil microbiome: An essential, but neglected, component of regenerative agroecosystems. <i>IScience</i> , 2023, 26, 106028.	1.9	9

#	ARTICLE	IF	CITATIONS
1002	Globally invariant metabolism but density-diversity mismatch in springtails. <i>Nature Communications</i> , 2023, 14, .	5.8	14
1004	Spatial distribution patterns across multiple microbial taxonomic groups. <i>Environmental Research</i> , 2023, 223, 115470.	3.7	1
1005	Microbial Community Structure and Predictive Functional Analysis in Reclaimed Soil with Different Vegetation Types: The Example of the Xiaoyi Mine Waste Dump in Shanxi. <i>Land</i> , 2023, 12, 456.	1.2	4
1006	Ammonia-Oxidizing Bacteria Maintain Abundance but Lower <i>amoA</i> -Gene Expression during Cold Temperature Nitrification Failure in a Full-Scale Municipal Wastewater Treatment Plant. <i>Microbiology Spectrum</i> , 2023, 11, .	1.2	3
1007	Assembly and enrichment of rhizosphere and bulk soil microbiomes in Robinia pseudoacacia plantations during long-term vegetation restoration. <i>Applied Soil Ecology</i> , 2023, 187, 104835.	2.1	3
1008	New perspective: Symbiotic pattern and assembly mechanism of <i>Cantharellus cibarius</i> -associated bacteria. <i>Frontiers in Microbiology</i> , 0, 14, .	1.5	1
1009	The carbon dioxide fluxes at the open-top chambers experiment on the ombrotrophic bog (Mukhrino) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.2	1
1010	Silva Nova " Restoring soil biology and soil functions to gain multiple benefits in new forests. <i>Research Ideas and Outcomes</i> , 0, 9, .	1.0	0
1011	Negative Linear or Unimodal: Why Forest Soil Fungal Latitudinal Diversity Differs across China. <i>Microbiology Spectrum</i> , 2023, 11, .	1.2	3
1012	Factors driving the halophyte rhizosphere bacterial communities in coastal salt marshes. <i>Frontiers in Microbiology</i> , 0, 14, .	1.5	3
1013	Knowledge Gaps, Research Needs, and Opportunities in Plant Disease Diagnostics Assay Development and Validation. <i>PhytoFrontiers</i> , 0, , .	0.8	2
1014	Soil Microbial Biomass and Community Composition across a Chronosequence of Chinese Cedar Plantations. <i>Forests</i> , 2023, 14, 470.	0.9	2
1015	Different sensitivities and assembly mechanisms of the root-associated microbial communities of Robinia pseudoacacia to spatial variation at the regional scale. <i>Plant and Soil</i> , 2023, 486, 621-637.	1.8	3
1016	Effects of <i>Bacillus coagulans</i> and <i>Lactobacillus plantarum</i> on the Fermentation Characteristics, Microbial Community, and Functional Shifts during Alfalfa Silage Fermentation. <i>Animals</i> , 2023, 13, 932.	1.0	3
1017	Reaching unreachables: Obstacles and successes of microbial cultivation and their reasons. <i>Frontiers in Microbiology</i> , 0, 14, .	1.5	11
1018	Penoxsulam-resistant barnyardgrass-mediated rhizosphere microbial communities affect the growth of rice. <i>Pest Management Science</i> , 2023, 79, 2664-2674.	1.7	2
1019	Biotic interactions contribute more than environmental factors and geographic distance to biogeographic patterns of soil prokaryotic and fungal communities. <i>Frontiers in Microbiology</i> , 0, 14, .	1.5	1
1020	Uncovering Bacterial Hosts of Class 1 Integrons in an Urban Coastal Aquatic Environment with a Single-Cell Fusion-Polymerase Chain Reaction Technology. <i>Environmental Science & Technology</i> , 2023, 57, 4870-4879.	4.6	3

#	ARTICLE	IF	CITATIONS
1021	Bacterial community assembly and antibiotic resistance genes in soils exposed to antibiotics at environmentally relevant concentrations. <i>Environmental Microbiology</i> , 2023, 25, 1439-1450.	1.8	4
1022	Rare Bacteria Can Be Used as Ecological Indicators of Grassland Degradation. <i>Microorganisms</i> , 2023, 11, 754.	1.6	1
1023	Geography shapes the microbial community in <i>Heliconius</i> butterflies. <i>FEMS Microbiology Ecology</i> , 2023, 99, .	1.3	0
1025	Soil texture and microorganisms dominantly determine the subsoil carbonate content in the permafrost-affected area of the Tibetan Plateau. <i>Frontiers in Microbiology</i> , 0, 14, .	1.5	0
1026	Anaerobic Soil Disinfestation Promotes Soil Microbial Stability and Antagonistic Bacteria Abundance in Greenhouse Vegetable Production Systems. <i>Agronomy</i> , 2023, 13, 939.	1.3	1
1027	Aqueous habitats and carbon inputs shape the microscale geography and interaction ranges of soil bacteria. <i>Communications Biology</i> , 2023, 6, .	2.0	1
1028	Surprising relationships between soil pH and microbial biomass and activity in a northern hardwood forest. <i>Biogeochemistry</i> , 2023, 163, 265-277.	1.7	6
1029	Forest microbiome and global change. <i>Nature Reviews Microbiology</i> , 2023, 21, 487-501.	13.6	33
1030	Multiple facets of cutting-edge mycorrhizal research. <i>New Phytologist</i> , 0, , .	3.5	0
1031	Seasonal variations of soil bacterial and fungal communities in a subtropical Eucalyptus plantation and their responses to throughfall reduction. <i>Frontiers in Microbiology</i> , 0, 14, .	1.5	1
1032	Testing the stress gradient hypothesis in soil bacterial communities associated with vegetation belts in the Andean Atacama Desert. <i>Environmental Microbiomes</i> , 2023, 18, .	2.2	3
1034	Abundance, classification and genetic potential of Thaumarchaeota in metagenomes of European agricultural soils: a meta-analysis. <i>Environmental Microbiomes</i> , 2023, 18, .	2.2	5
1035	Soil depth and geographic distance modulate bacterial α -diversity in deep soil profiles throughout the U.S. Corn Belt. <i>Molecular Ecology</i> , 2023, 32, 3718-3732.	2.0	2
1036	Tetracycline Resistance on Protein Synthesis. , 2023, 2, .		0
1037	Fungal but not bacterial β -diversity decreased after 38-year-long grazing in a southern grassland. <i>Plant and Soil</i> , 0, , .	1.8	2
1038	Soil microbiome feedback to climate change and options for mitigation. <i>Science of the Total Environment</i> , 2023, 882, 163412.	3.9	10
1039	Dissemination of antibiotic resistance genes from the Pearl River Estuary to adjacent coastal areas. <i>Marine Environmental Research</i> , 2023, 188, 105978.	1.1	1
1040	Incorporation, fate, and turnover of free fatty acids in cyanobacteria. <i>FEMS Microbiology Reviews</i> , 2023, 47, .	3.9	0

#	ARTICLE	IF	CITATIONS
1041	Bacterial and fungal community composition and community-level physiological profiles in forest soils. <i>PLoS ONE</i> , 2023, 18, e0284817.	1.1	0
1042	Recovery of the soil fungal microbiome after steam disinfection to manage the plant pathogen <i>Fusarium solani</i> . <i>Frontiers in Plant Science</i> , 0, 14, .	1.7	0
1043	Land-use- and climate-mediated variations in soil bacterial and fungal biomass across Europe and their driving factors. <i>Geoderma</i> , 2023, 434, 116474.	2.3	5
1087	African microbiomes matter. <i>Nature Reviews Microbiology</i> , 2023, 21, 479-481.	13.6	5
1140	Diversity of various symbiotic associations between microbes and host plants. , 2023, , 1-18.		0
1173	Unveiling Microbial Chemical Interactions Based on Metabolomics Approaches. <i>Advances in Experimental Medicine and Biology</i> , 2023, , 51-70.	0.8	0
1179	The interplay between microbial communities and soil properties. <i>Nature Reviews Microbiology</i> , 0, , .	13.6	23
1181	Plant breeding for harmony between sustainable agriculture, the environment, and global food security: an era of genomicsâ€ assisted breeding. <i>Planta</i> , 2023, 258, .	1.6	5
1226	Machine learning for microbiologists. <i>Nature Reviews Microbiology</i> , 2024, 22, 191-205.	13.6	6
1238	The Role and Application of Microbial Enzymes in Microplasticsâ€™ Bioremediation: Available and Future Perspectives. <i>ACS Symposium Series</i> , 0, , 33-56.	0.5	0
1288	Molecular and associated approaches for studying soil biota and their functioning. , 2024, , 161-192.		0
1291	Fungi in soil: a rich community with diverse functions. , 2024, , 75-129.		1
1306	Advancing quantitative models of soil microbiology, ecology, and biochemistry. , 2024, , 473-492.		0
1307	The spatial distribution of soil biota and their functions. , 2024, , 229-245.		0
1330	Advances in metaproteomic profiling of molecular microbiology and environmental responses. <i>Systems Microbiology and Biomanufacturing</i> , 2024, 4, 463-472.	1.5	0
1358	Antibiotics as Emerging Pollutants of Soil Ecosystems. , 2024, , 21-41.		0
1365	Soil Microbiome as a Key Factor in Soil Health. <i>Microorganisms for Sustainability</i> , 2024, , 1-20.	0.4	0