

Hang-Wei Hu

List of Publications by Year in descending order

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Version: 2024-02-01

266
papers

19,428
citations

11651

70
h-index

15732

125
g-index

271
all docs

271
docs citations

271
times ranked

12460
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative analyses of the abundance and composition of ammonia-oxidizing bacteria and ammonia-oxidizing archaea of a Chinese upland red soil under long-term fertilization practices. <i>Environmental Microbiology</i> , 2007, 9, 2364-2374.	3.8	877
2	An overview of microplastic and nanoplastic pollution in agroecosystems. <i>Science of the Total Environment</i> , 2018, 627, 1377-1388.	8.0	846
3	Ammonia-oxidizing archaea have more important role than ammonia-oxidizing bacteria in ammonia oxidation of strongly acidic soils. <i>ISME Journal</i> , 2012, 6, 1032-1045.	9.8	614
4	Multiple elements of soil biodiversity drive ecosystem functions across biomes. <i>Nature Ecology and Evolution</i> , 2020, 4, 210-220.	7.8	543
5	Microbial regulation of terrestrial nitrous oxide formation: understanding the biological pathways for prediction of emission rates. <i>FEMS Microbiology Reviews</i> , 2015, 39, 729-749.	8.6	530
6	Abundance and composition of ammonia-oxidizing bacteria and ammonia-oxidizing archaea communities of an alkaline sandy loam. <i>Environmental Microbiology</i> , 2008, 10, 1601-1611.	3.8	508
7	Ammonia-oxidizing bacteria and archaea grow under contrasting soil nitrogen conditions. <i>FEMS Microbiology Ecology</i> , 2010, 72, 386-394.	2.7	419
8	Host selection shapes crop microbiome assembly and network complexity. <i>New Phytologist</i> , 2021, 229, 1091-1104.	7.3	349
9	Ammonia-oxidizing archaea: important players in paddy rhizosphere soil?. <i>Environmental Microbiology</i> , 2008, 10, 1978-1987.	3.8	340
10	Microbial regulation of the soil carbon cycle: evidence from gene-enzyme relationships. <i>ISME Journal</i> , 2016, 10, 2593-2604.	9.8	324
11	Autotrophic ammonia oxidation by soil thaumarchaea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17240-17245.	7.1	305
12	Effects of Cd and Pb on soil microbial community structure and activities. <i>Environmental Science and Pollution Research</i> , 2010, 17, 288-296.	5.3	304
13	Transfer of antibiotic resistance from manure-amended soils to vegetable microbiomes. <i>Environment International</i> , 2019, 130, 104912.	10.0	278
14	Protist communities are more sensitive to nitrogen fertilization than other microorganisms in diverse agricultural soils. <i>Microbiome</i> , 2019, 7, 33.	11.1	278
15	Current insights into the autotrophic thaumarchaeal ammonia oxidation in acidic soils. <i>Soil Biology and Biochemistry</i> , 2012, 55, 146-154.	8.8	268
16	Rare microbial taxa as the major drivers of ecosystem multifunctionality in long-term fertilized soils. <i>Soil Biology and Biochemistry</i> , 2020, 141, 107686.	8.8	247
17	Long-Term Nickel Contamination Increases the Occurrence of Antibiotic Resistance Genes in Agricultural Soils. <i>Environmental Science & Technology</i> , 2017, 51, 790-800.	10.0	240
18	pH-dependent distribution of soil ammonia oxidizers across a large geographical scale as revealed by high-throughput pyrosequencing. <i>Journal of Soils and Sediments</i> , 2013, 13, 1439-1449.	3.0	219

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19	Field-based evidence for copper contamination induced changes of antibiotic resistance in agricultural soils. <i>Environmental Microbiology</i> , 2016, 18, 3896-3909.	3.8	216
20	Plant diversity represents the prevalent determinant of soil fungal community structure across temperate grasslands in northern China. <i>Soil Biology and Biochemistry</i> , 2017, 110, 12-21.	8.8	202
21	Comammox—a newly discovered nitrification process in the terrestrial nitrogen cycle. <i>Journal of Soils and Sediments</i> , 2017, 17, 2709-2717.	3.0	194
22	A review of ammonia-oxidizing bacteria and archaea in Chinese soils. <i>Frontiers in Microbiology</i> , 2012, 3, 296.	3.5	191
23	Aerobic composting reduces antibiotic resistance genes in cattle manure and the resistome dissemination in agricultural soils. <i>Science of the Total Environment</i> , 2018, 612, 1300-1310.	8.0	190
24	Differences in soil bacterial diversity: driven by contemporary disturbances or historical contingencies?. <i>ISME Journal</i> , 2008, 2, 254-264.	9.8	182
25	Long-term fertilization regimes affect bacterial community structure and diversity of an agricultural soil in northern China. <i>Journal of Soils and Sediments</i> , 2008, 8, 43-50.	3.0	177
26	Microbial composition and diversity of an upland red soil under long-term fertilization treatments as revealed by culture-dependent and culture-independent approaches. <i>Journal of Soils and Sediments</i> , 2008, 8, 349-358.	3.0	170
27	Antibiotic resistance genes and associated bacterial communities in agricultural soils amended with different sources of animal manures. <i>Soil Biology and Biochemistry</i> , 2018, 126, 91-102.	8.8	170
28	Altitudinal Distribution Patterns of Soil Bacterial and Archaeal Communities Along Mt. Shedyala on the Tibetan Plateau. <i>Microbial Ecology</i> , 2015, 69, 135-145.	2.8	166
29	Temporal succession of soil antibiotic resistance genes following application of swine, cattle and poultry manures spiked with or without antibiotics. <i>Environmental Pollution</i> , 2017, 231, 1621-1632.	7.5	166
30	Plant developmental stage drives the differentiation in ecological role of the maize microbiome. <i>Microbiome</i> , 2021, 9, 171.	11.1	164
31	Impact of long-term fertilization practices on the abundance and composition of soil bacterial communities in Northeast China. <i>Applied Soil Ecology</i> , 2010, 46, 119-124.	4.3	158
32	Altitude ammonia-oxidizing bacteria and archaea in soils of Mount Everest. <i>FEMS Microbiology Ecology</i> , 2009, 70, 208-217.	2.7	155
33	Comammox <i>Nitrospira</i> play an active role in nitrification of agricultural soils amended with nitrogen fertilizers. <i>Soil Biology and Biochemistry</i> , 2019, 138, 107609.	8.8	143
34	Multivariate geostatistical analysis of heavy metals in topsoils from Beijing, China. <i>Journal of Soils and Sediments</i> , 2008, 8, 51-58.	3.0	136
35	New insights into the role of microbial community composition in driving soil respiration rates. <i>Soil Biology and Biochemistry</i> , 2018, 118, 35-41.	8.8	134
36	Rare taxa maintain the stability of crop mycobiomes and ecosystem functions. <i>Environmental Microbiology</i> , 2021, 23, 1907-1924.	3.8	132

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37	Niche separation of comammox Nitrospira and canonical ammonia oxidizers in an acidic subtropical forest soil under long-term nitrogen deposition. <i>Soil Biology and Biochemistry</i> , 2018, 126, 114-122.	8.8	129
38	Nitrous oxide emissions from grazed grassland as affected by a nitrification inhibitor, dicyandiamide, and relationships with ammonia-oxidizing bacteria and archaea. <i>Journal of Soils and Sediments</i> , 2010, 10, 943-954.	3.0	122
39	Analysis of the Microbial Community Structure by Monitoring an Hg Methylation Gene (<i>hgcA</i>) in Paddy Soils along an Hg Gradient. <i>Applied and Environmental Microbiology</i> , 2014, 80, 2874-2879.	3.1	119
40	Contrasting patterns and drivers of soil bacterial and fungal diversity across a mountain gradient. <i>Environmental Microbiology</i> , 2020, 22, 3287-3301.	3.8	119
41	Responses of ammonia-oxidizing bacteria and archaea to nitrogen fertilization and precipitation increment in a typical temperate steppe in Inner Mongolia. <i>Applied Soil Ecology</i> , 2013, 68, 36-45.	4.3	116
42	Speciation, transportation, and pathways of cadmium in soil-rice systems: A review on the environmental implications and remediation approaches for food safety. <i>Environment International</i> , 2021, 156, 106749.	10.0	116
43	Soil bacterial taxonomic diversity is critical to maintaining the plant productivity. <i>Environment International</i> , 2020, 140, 105766.	10.0	114
44	Soil pH determines the alpha diversity but not beta diversity of soil fungal community along altitude in a typical Tibetan forest ecosystem. <i>Journal of Soils and Sediments</i> , 2015, 15, 1224-1232.	3.0	112
45	Water addition regulates the metabolic activity of ammonia oxidizers responding to environmental perturbations in dry subhumid ecosystems. <i>Environmental Microbiology</i> , 2015, 17, 444-461.	3.8	111
46	Ammonia-Oxidizing Archaea Play a Predominant Role in Acid Soil Nitrification. <i>Advances in Agronomy</i> , 2014, , 261-302.	5.2	109
47	Consistent responses of soil microbial taxonomic and functional attributes to mercury pollution across China. <i>Microbiome</i> , 2018, 6, 183.	11.1	109
48	Temporal changes of antibiotic-resistance genes and bacterial communities in two contrasting soils treated with cattle manure. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiv169.	2.7	108
49	Fungal richness contributes to multifunctionality in boreal forest soil. <i>Soil Biology and Biochemistry</i> , 2019, 136, 107526.	8.8	108
50	Unraveling Microbial Communities Associated with Methylmercury Production in Paddy Soils. <i>Environmental Science & Technology</i> , 2018, 52, 13110-13118.	10.0	106
51	The effects of short term, long term and reapplication of biochar on soil bacteria. <i>Science of the Total Environment</i> , 2018, 636, 142-151.	8.0	105
52	Abundance and community structure of ammonia-oxidizing archaea and bacteria in an acid paddy soil. <i>Biology and Fertility of Soils</i> , 2011, 47, 323-331.	4.3	102
53	Nitrogen loading levels affect abundance and composition of soil ammonia oxidizing prokaryotes in semiarid temperate grassland. <i>Journal of Soils and Sediments</i> , 2011, 11, 1243-1252.	3.0	100
54	Putative ammonia-oxidizing bacteria and archaea in an acidic red soil with different land utilization patterns. <i>Environmental Microbiology Reports</i> , 2010, 2, 304-312.	2.4	92

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55	Contrasting Euryarchaeota communities between upland and paddy soils exhibited similar pH-impacted biogeographic patterns. <i>Soil Biology and Biochemistry</i> , 2013, 64, 18-27.	8.8	92
56	Effects of climate warming and elevated CO ₂ on autotrophic nitrification and nitrifiers in dryland ecosystems. <i>Soil Biology and Biochemistry</i> , 2016, 92, 1-15.	8.8	92
57	Distinct microbial communities in the active and permafrost layers on the Tibetan Plateau. <i>Molecular Ecology</i> , 2017, 26, 6608-6620.	3.9	92
58	Distribution and diversity of archaeal communities in selected Chinese soils. <i>FEMS Microbiology Ecology</i> , 2012, 80, 146-158.	2.7	91
59	Abundance and community composition of methanotrophs in a Chinese paddy soil under long-term fertilization practices. <i>Journal of Soils and Sediments</i> , 2008, 8, 406-414.	3.0	90
60	Effects of the Nitrification Inhibitor 3,4-Dimethylpyrazole Phosphate on Nitrification and Nitrifiers in Two Contrasting Agricultural Soils. <i>Applied and Environmental Microbiology</i> , 2016, 82, 5236-5248.	3.1	90
61	Influence of nitrogen fertilization on soil ammonia oxidizer and denitrifier abundance, microbial biomass, and enzyme activities in an alpine meadow. <i>Biology and Fertility of Soils</i> , 2014, 50, 703-713.	4.3	84
62	Long-term manure application increased the levels of antibiotics and antibiotic resistance genes in a greenhouse soil. <i>Applied Soil Ecology</i> , 2017, 121, 193-200.	4.3	84
63	Effects of nitrogen application rate and a nitrification inhibitor dicyandiamide on ammonia oxidizers and N ₂ O emissions in a grazed pasture soil. <i>Science of the Total Environment</i> , 2013, 465, 125-135.	8.0	83
64	Global homogenization of the structure and function in the soil microbiome of urban greenspaces. <i>Science Advances</i> , 2021, 7, .	10.3	83
65	Soil type determines the abundance and community structure of ammonia-oxidizing bacteria and archaea in flooded paddy soils. <i>Journal of Soils and Sediments</i> , 2010, 10, 1510-1516.	3.0	82
66	Activity, abundance and community structure of anammox bacteria along depth profiles in three different paddy soils. <i>Soil Biology and Biochemistry</i> , 2015, 91, 212-221.	8.8	82
67	Abundance and community structure of ammonia-oxidizing bacteria and archaea in a temperate forest ecosystem under ten-years elevated CO ₂ . <i>Soil Biology and Biochemistry</i> , 2012, 46, 163-171.	8.8	81
68	Microbial communities in crop phyllosphere and root endosphere are more resistant than soil microbiota to fertilization. <i>Soil Biology and Biochemistry</i> , 2021, 153, 108113.	8.8	81
69	Adaptive responses of comammox <i>Nitrospira</i> and canonical ammonia oxidizers to long-term fertilizations: Implications for the relative contributions of different ammonia oxidizers to soil nitrogen cycling. <i>Science of the Total Environment</i> , 2019, 668, 224-233.	8.0	79
70	Effects of Cellular Sorption on Mercury Bioavailability and Methylmercury Production by <i>Desulfovibrio desulfuricans</i> ND132. <i>Environmental Science & Technology</i> , 2016, 50, 13335-13341.	10.0	78
71	Impacts of reclaimed water irrigation on soil antibiotic resistome in urban parks of Victoria, Australia. <i>Environmental Pollution</i> , 2016, 211, 48-57.	7.5	78
72	Identity of biocrust species and microbial communities drive the response of soil multifunctionality to simulated global change. <i>Soil Biology and Biochemistry</i> , 2017, 107, 208-217.	8.8	78

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73	Fertilization changes soil microbiome functioning, especially phagotrophic protists. <i>Soil Biology and Biochemistry</i> , 2020, 148, 107863.	8.8	78
74	Arsenic and cadmium as predominant factors shaping the distribution patterns of antibiotic resistance genes in polluted paddy soils. <i>Journal of Hazardous Materials</i> , 2020, 389, 121838.	12.4	77
75	Microbial Community and Functional Structure Significantly Varied among Distinct Types of Paddy Soils But Responded Differently along Gradients of Soil Depth Layers. <i>Frontiers in Microbiology</i> , 2017, 8, 945.	3.5	76
76	Nitrifier-induced denitrification is an important source of soil nitrous oxide and can be inhibited by a nitrification inhibitor 3,4-dimethylpyrazole phosphate. <i>Environmental Microbiology</i> , 2017, 19, 4851-4865.	3.8	75
77	Abundance and community structure of sulfate reducing prokaryotes in a paddy soil of southern China under different fertilization regimes. <i>Soil Biology and Biochemistry</i> , 2009, 41, 687-694.	8.8	74
78	Response of denitrification genes nirS, nirK, and nosZ to irrigation water quality in a Chinese agricultural soil. <i>Environmental Science and Pollution Research</i> , 2011, 18, 1644-1652.	5.3	70
79	The large-scale distribution of ammonia oxidizers in paddy soils is driven by soil pH, geographic distance, and climatic factors. <i>Frontiers in Microbiology</i> , 2015, 6, 938.	3.5	70
80	Palaeoclimate explains a unique proportion of the global variation in soil bacterial communities. <i>Nature Ecology and Evolution</i> , 2017, 1, 1339-1347.	7.8	70
81	The effect of temperature and moisture on the source of N ₂ O and contributions from ammonia oxidizers in an agricultural soil. <i>Biology and Fertility of Soils</i> , 2017, 53, 141-152.	4.3	69
82	Nitrogen fertiliser-induced changes in N ₂ O emissions are attributed more to ammonia-oxidising bacteria rather than archaea as revealed using 1-octyne and acetylene inhibitors in two arable soils. <i>Biology and Fertility of Soils</i> , 2016, 52, 1163-1171.	4.3	65
83	Dissimilatory nitrate reduction to ammonium dominates nitrate reduction in long-term low nitrogen fertilized rice paddies. <i>Soil Biology and Biochemistry</i> , 2019, 131, 149-156.	8.8	64
84	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.	8.0	63
85	Effects of mercury on the activity and community composition of soil ammonia oxidizers. <i>Environmental Science and Pollution Research</i> , 2010, 17, 1237-1244.	5.3	62
86	Nitrification Is a Primary Driver of Nitrous Oxide Production in Laboratory Microcosms from Different Land-Use Soils. <i>Frontiers in Microbiology</i> , 2016, 7, 1373.	3.5	62
87	Diversity and potential biogeochemical impacts of viruses in bulk and rhizosphere soils. <i>Environmental Microbiology</i> , 2021, 23, 588-599.	3.8	62
88	Abundance and community structure of ammonia-oxidizing <i>Archaea</i> and <i>Bacteria</i> in response to fertilization and mowing in a temperate steppe in Inner Mongolia. <i>FEMS Microbiology Ecology</i> , 2014, 89, 67-79.	2.7	61
89	Responses of soil nitrous oxide production and abundances and composition of associated microbial communities to nitrogen and water amendment. <i>Biology and Fertility of Soils</i> , 2017, 53, 601-611.	4.3	61
90	Deterministic selection dominates microbial community assembly in termite mounds. <i>Soil Biology and Biochemistry</i> , 2021, 152, 108073.	8.8	60

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91	Niche differentiation of clade A comammox <i>Nitrospira</i> and canonical ammonia oxidizers in selected forest soils. <i>Soil Biology and Biochemistry</i> , 2020, 149, 107925.	8.8	59
92	Effects of 3,4-dimethylpyrazole phosphate (DMPP) on nitrification and the abundance and community composition of soil ammonia oxidizers in three land uses. <i>Biology and Fertility of Soils</i> , 2016, 52, 927-939.	4.3	56
93	Influence of rice straw amendment on mercury methylation and nitrification in paddy soils. <i>Environmental Pollution</i> , 2016, 209, 53-59.	7.5	56
94	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.	8.0	56
95	Diversity of herbaceous plants and bacterial communities regulates soil resistome across forest biomes. <i>Environmental Microbiology</i> , 2018, 20, 3186-3200.	3.8	55
96	Linking soil bacterial diversity to ecosystem multifunctionality using backward-elimination boosted trees analysis. <i>Journal of Soils and Sediments</i> , 2009, 9, 547-554.	3.0	54
97	Multiple factors drive the abundance and diversity of the diazotrophic community in typical farmland soils of China. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	54
98	Salinity as a predominant factor modulating the distribution patterns of antibiotic resistance genes in ocean and river beach soils. <i>Science of the Total Environment</i> , 2019, 668, 193-203.	8.0	54
99	Manure application increases microbiome complexity in soil aggregate fractions: Results of an 18-year field experiment. <i>Agriculture, Ecosystems and Environment</i> , 2021, 307, 107249.	5.3	54
100	Large-scale patterns of soil antibiotic resistome in Chinese croplands. <i>Science of the Total Environment</i> , 2020, 712, 136418.	8.0	53
101	Fertilization alters protistan consumers and parasites in crop-associated microbiomes. <i>Environmental Microbiology</i> , 2021, 23, 2169-2183.	3.8	52
102	Ensuring planetary survival: the centrality of organic carbon in balancing the multifunctional nature of soils. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 4308-4324.	12.8	52
103	Oxytetracycline and Ciprofloxacin Exposure Altered the Composition of Protistan Consumers in an Agricultural Soil. <i>Environmental Science & Technology</i> , 2020, 54, 9556-9563.	10.0	51
104	Potential of indigenous crop microbiomes for sustainable agriculture. <i>Nature Food</i> , 2021, 2, 233-240.	14.0	51
105	Coupling of soil prokaryotic diversity and plant diversity across latitudinal forest ecosystems. <i>Scientific Reports</i> , 2016, 6, 19561.	3.3	50
106	Frontiers in the microbial processes of ammonia oxidation in soils and sediments. <i>Journal of Soils and Sediments</i> , 2014, 14, 1023-1029.	3.0	49
107	Immediate effects of nitrogen, phosphorus, and potassium amendments on the methanotrophic activity and abundance in a Chinese paddy soil under short-term incubation experiment. <i>Journal of Soils and Sediments</i> , 2013, 13, 189-196.	3.0	48
108	Field-based evidence for consistent responses of bacterial communities to copper contamination in two contrasting agricultural soils. <i>Frontiers in Microbiology</i> , 2015, 6, 31.	3.5	47

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109	Plant-driven niche differentiation of ammonia-oxidizing bacteria and archaea in global drylands. <i>ISME Journal</i> , 2019, 13, 2727-2736.	9.8	47
110	The influence of soil age on ecosystem structure and function across biomes. <i>Nature Communications</i> , 2020, 11, 4721.	12.8	47
111	Succession of plant and soil microbial communities with restoration of abandoned land in the Loess Plateau, China. <i>Journal of Soils and Sediments</i> , 2013, 13, 760-769.	3.0	46
112	Differentiated Mechanisms of Biochar Mitigating Straw-Induced Greenhouse Gas Emissions in Two Contrasting Paddy Soils. <i>Frontiers in Microbiology</i> , 2018, 9, 2566.	3.5	46
113	Niche differentiation of comammox <i>Nitrospira</i> and canonical ammonia oxidizers in soil aggregate fractions following 27-year fertilizations. <i>Agriculture, Ecosystems and Environment</i> , 2020, 304, 107147.	5.3	46
114	Initial Copper Stress Strengthens the Resistance of Soil Microorganisms to a Subsequent Copper Stress. <i>Microbial Ecology</i> , 2014, 67, 931-941.	2.8	44
115	Effects of different agricultural wastes on the dissipation of PAHs and the PAH-degrading genes in a PAH-contaminated soil. <i>Chemosphere</i> , 2017, 172, 286-293.	8.2	44
116	Time-dependent shifts in populations and activity of bacterial and archaeal ammonia oxidizers in response to liming in acidic soils. <i>Soil Biology and Biochemistry</i> , 2017, 112, 77-89.	8.8	44
117	Antibiotic resistance in urban green spaces mirrors the pattern of industrial distribution. <i>Environment International</i> , 2019, 132, 105106.	10.0	42
118	Changes of the denitrifying communities in a multi-stage free water surface constructed wetland. <i>Science of the Total Environment</i> , 2019, 650, 1419-1425.	8.0	41
119	Species identity of biocrust-forming lichens drives the response of soil nitrogen cycle to altered precipitation frequency and nitrogen amendment. <i>Soil Biology and Biochemistry</i> , 2016, 96, 128-136.	8.8	40
120	Microbial nitrous oxide emissions in dryland ecosystems: mechanisms, microbiome and mitigation. <i>Environmental Microbiology</i> , 2017, 19, 4808-4828.	3.8	40
121	Sorption mechanism and distribution of cadmium by different microbial species. <i>Journal of Environmental Management</i> , 2019, 237, 552-559.	7.8	40
122	Ecological Drivers of Biogeographic Patterns of Soil Archaeal Community. <i>PLoS ONE</i> , 2013, 8, e63375.	2.5	39
123	Response of ammonia oxidizing microbes to the stresses of arsenic and copper in two acidic alfisols. <i>Applied Soil Ecology</i> , 2014, 77, 59-67.	4.3	39
124	Dryland forest management alters fungal community composition and decouples assembly of root- and soil-associated fungal communities. <i>Soil Biology and Biochemistry</i> , 2017, 109, 14-22.	8.8	39
125	Nitrogen Addition Decreases Dissimilatory Nitrate Reduction to Ammonium in Rice Paddies. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	39
126	Distributions and environmental drivers of archaea and bacteria in paddy soils. <i>Journal of Soils and Sediments</i> , 2019, 19, 23-37.	3.0	39

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127	Growth of comammox <i>Nitrospira</i> is inhibited by nitrification inhibitors in agricultural soils. <i>Journal of Soils and Sediments</i> , 2020, 20, 621-628.	3.0	38
128	Quantitative analyses of the abundance and composition of ammonia-oxidizing bacteria and ammonia-oxidizing archaea of a Chinese upland red soil under long-term fertilization practices. <i>Environmental Microbiology</i> , 2007, 9, 3152-3152.	3.8	36
129	Response of bacterial pdo1, nah, and C12O genes to aged soil PAH pollution in a coke factory area. <i>Environmental Science and Pollution Research</i> , 2014, 21, 9754-9763.	5.3	36
130	Response of ammonia oxidizers and denitrifiers to repeated applications of a nitrification inhibitor and a urease inhibitor in two pasture soils. <i>Journal of Soils and Sediments</i> , 2017, 17, 974-984.	3.0	36
131	Rare earth oxide nanoparticles promote soil microbial antibiotic resistance by selectively enriching antibiotic resistance genes. <i>Environmental Science: Nano</i> , 2019, 6, 456-466.	4.3	36
132	Enhanced nitrogen retention by lignite during poultry litter composting. <i>Journal of Cleaner Production</i> , 2020, 277, 122422.	9.3	36
133	Effects of super absorbent polymers on soil microbial properties and Chinese cabbage (<i>Brassica</i>) Tj ETQq1 1 0.784314 rgBT /Overlock	3.0	34
134	Microbial functional traits in phyllosphere are more sensitive to anthropogenic disturbance than in soil. <i>Environmental Pollution</i> , 2020, 265, 114954.	7.5	34
135	Fates and Use Efficiency of Nitrogen Fertilizer in Maize Cropping Systems and Their Responses to Technologies and Management Practices: A Global Analysis on Field ¹⁵ N Tracer Studies. <i>Earth's Future</i> , 2021, 9, e2020EF001514.	6.3	34
136	Distinct factors drive the diversity and composition of protistan consumers and phototrophs in natural soil ecosystems. <i>Soil Biology and Biochemistry</i> , 2021, 160, 108317.	8.8	34
137	Niche specialization of comammox <i>Nitrospira</i> in terrestrial ecosystems: Oligotrophic or copiotrophic?. <i>Critical Reviews in Environmental Science and Technology</i> , 2023, 53, 161-176.	12.8	34
138	Temporal dynamics of fungal communities in soybean rhizosphere. <i>Journal of Soils and Sediments</i> , 2017, 17, 491-498.	3.0	33
139	Bacterial composition and spatiotemporal variation in sediments of Jiaozhou Bay, China. <i>Journal of Soils and Sediments</i> , 2015, 15, 732-744.	3.0	32
140	Climatic factors have unexpectedly strong impacts on soil bacterial β -diversity in 12 forest ecosystems. <i>Soil Biology and Biochemistry</i> , 2020, 142, 107699.	8.8	32
141	Genetic and functional diversity of ubiquitous DNA viruses in selected Chinese agricultural soils. <i>Scientific Reports</i> , 2017, 7, 45142.	3.3	31
142	Soil aggregate size and long-term fertilization effects on the function and community of ammonia oxidizers. <i>Geoderma</i> , 2019, 338, 107-117.	5.1	31
143	Fate of antibiotic resistance genes during high-solid anaerobic co-digestion of pig manure with lignite. <i>Bioresource Technology</i> , 2020, 303, 122906.	9.6	30
144	Candidatus <i>Brocadia</i> and Candidatus <i>Kuenenia</i> predominated in anammox bacterial community in selected Chinese paddy soils. <i>Journal of Soils and Sediments</i> , 2015, 15, 1977-1986.	3.0	29

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145	Sorghum rhizosphere effects reduced soil bacterial diversity by recruiting specific bacterial species under low nitrogen stress. <i>Science of the Total Environment</i> , 2021, 770, 144742.	8.0	29
146	Host Species and Geography Differentiate Honeybee Gut Bacterial Communities by Changing the Relative Contribution of Community Assembly Processes. <i>MBio</i> , 2021, 12, e0075121.	4.1	29
147	Environmental Filtering Process Has More Important Roles than Dispersal Limitation in Shaping Large-Scale Prokaryotic Beta Diversity Patterns of Grassland Soils. <i>Microbial Ecology</i> , 2016, 72, 221-230.	2.8	28
148	Interactive effects of multiple climate change factors on ammonia oxidizers and denitrifiers in a temperate steppe. <i>FEMS Microbiology Ecology</i> , 2017, 93, .	2.7	28
149	The biogeography of fungal communities in paddy soils is mainly driven by geographic distance. <i>Journal of Soils and Sediments</i> , 2018, 18, 1795-1805.	3.0	28
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