

Hang-Wei Hu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

260
papers

11,919
citations

60
h-index

101
g-index

271
ext. papers

16,040
ext. citations

6.5
avg, IF

6.88
L-index

#	Paper	IF	Citations
260	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, 2364-74	5.2	755
259	An overview of microplastic and nanoplastic pollution in agroecosystems. <i>Science of the Total Environment</i> , 2018 , 627, 1377-1388	10.2	502
258	Ammonia-oxidizing archaea have more important role than ammonia-oxidizing bacteria in ammonia oxidation of strongly acidic soils. <i>ISME Journal</i> , 2012 , 6, 1032-45	11.9	474
257	Abundance and composition of ammonia-oxidizing bacteria and ammonia-oxidizing archaea communities of an alkaline sandy loam. <i>Environmental Microbiology</i> , 2008 , 10, 1601-11	5.2	430
256	Ammonia-oxidizing bacteria and archaea grow under contrasting soil nitrogen conditions. <i>FEMS Microbiology Ecology</i> , 2010 , 72, 386-94	4.3	354
255	Microbial regulation of terrestrial nitrous oxide formation: understanding the biological pathways for prediction of emission rates. <i>FEMS Microbiology Reviews</i> , 2015 , 39, 729-49	15.1	341
254	Ammonia-oxidizing archaea: important players in paddy rhizosphere soil?. <i>Environmental Microbiology</i> , 2008 , 10, 1978-87	5.2	302
253	Autotrophic ammonia oxidation by soil thaumarchaea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 17240-5	11.5	263
252	Effects of Cd and Pb on soil microbial community structure and activities. <i>Environmental Science and Pollution Research</i> , 2010 , 17, 288-96	5.1	238
251	Current insights into the autotrophic thaumarchaeal ammonia oxidation in acidic soils. <i>Soil Biology and Biochemistry</i> , 2012 , 55, 146-154	7.5	219
250	Microbial regulation of the soil carbon cycle: evidence from gene-enzyme relationships. <i>ISME Journal</i> , 2016 , 10, 2593-2604	11.9	178
249	Multiple elements of soil biodiversity drive ecosystem functions across biomes. <i>Nature Ecology and Evolution</i> , 2020 , 4, 210-220	12.3	160
248	Long-Term Nickel Contamination Increases the Occurrence of Antibiotic Resistance Genes in Agricultural Soils. <i>Environmental Science & Technology</i> , 2017 , 51, 790-800	10.3	159
247	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	3.4	154
246	Field-based evidence for copper contamination induced changes of antibiotic resistance in agricultural soils. <i>Environmental Microbiology</i> , 2016 , 18, 3896-3909	5.2	150
245	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	3.4	142
244	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	3.4	140

243	Differences in soil bacterial diversity: driven by contemporary disturbances or historical contingencies?. <i>ISME Journal</i> , 2008 , 2, 254-64	11.9	136
242	Transfer of antibiotic resistance from manure-amended soils to vegetable microbiomes. <i>Environment International</i> , 2019 , 130, 104912	12.9	133
241	Altitude ammonia-oxidizing bacteria and archaea in soils of Mount Everest. <i>FEMS Microbiology Ecology</i> , 2009 , 70, 52-61	4.3	132
240	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	10.2	125
239	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	5	125
238	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	7.5	124
237	A review of ammonia-oxidizing bacteria and archaea in Chinese soils. <i>Frontiers in Microbiology</i> , 2012 , 3, 296	5.7	124
236	Protist communities are more sensitive to nitrogen fertilization than other microorganisms in diverse agricultural soils. <i>Microbiome</i> , 2019 , 7, 33	16.6	120
235	Comammox [®] newly discovered nitrification process in the terrestrial nitrogen cycle. <i>Journal of Soils and Sediments</i> , 2017 , 17, 2709-2717	3.4	118
234	Multivariate geostatistical analysis of heavy metals in topsoils from Beijing, China. <i>Journal of Soils and Sediments</i> , 2008 , 8, 51-58	3.4	117
233	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	3.4	107
232	Rare microbial taxa as the major drivers of ecosystem multifunctionality in long-term fertilized soils. <i>Soil Biology and Biochemistry</i> , 2020 , 141, 107686	7.5	102
231	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	7.5	102
230	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	9.3	100
229	Altitudinal distribution patterns of soil bacterial and archaeal communities along mt. Shegyla on the Tibetan Plateau. <i>Microbial Ecology</i> , 2015 , 69, 135-45	4.4	92
228	Water addition regulates the metabolic activity of ammonia oxidizers responding to environmental perturbations in dry subhumid ecosystems. <i>Environmental Microbiology</i> , 2015 , 17, 444-61	5.2	89
227	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	5	87
226	Putative ammonia-oxidizing bacteria and archaea in an acidic red soil with different land utilization patterns. <i>Environmental Microbiology Reports</i> , 2010 , 2, 304-12	3.7	85

225	Analysis of the microbial community structure by monitoring an Hg methylation gene (hgcA) in paddy soils along an Hg gradient. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 2874-9	4.8	83
224	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	6.1	83
223	Ammonia-Oxidizing Archaea Play a Predominant Role in Acid Soil Nitrification. <i>Advances in Agronomy</i> , 2014 , 261-302	7.7	80
222	Host selection shapes crop microbiome assembly and network complexity. <i>New Phytologist</i> , 2021 , 229, 1091-1104	9.8	80
221	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	3.4	79
220	Temporal changes of antibiotic-resistance genes and bacterial communities in two contrasting soils treated with cattle manure. <i>FEMS Microbiology Ecology</i> , 2016 , 92,	4.3	77
219	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	3.4	70
218	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, 125-35 ^{10.2}		69
217	Distribution and diversity of archaeal communities in selected Chinese soils. <i>FEMS Microbiology Ecology</i> , 2012 , 80, 146-58	4.3	69
216	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	3.4	69
215	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	6.1	67
214	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	7.5	67
213	Impacts of reclaimed water irrigation on soil antibiotic resistome in urban parks of Victoria, Australia. <i>Environmental Pollution</i> , 2016 , 211, 48-57	9.3	66
212	Comammox Nitrospira play an active role in nitrification of agricultural soils amended with nitrogen fertilizers. <i>Soil Biology and Biochemistry</i> , 2019 , 138, 107609	7.5	66
211	Consistent responses of soil microbial taxonomic and functional attributes to mercury pollution across China. <i>Microbiome</i> , 2018 , 6, 183	16.6	66
210	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	7.5	65
209	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	7.5	65
208	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	7.5	64

207	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	10.2	63
206	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	7.5	63
205	New insights into the role of microbial community composition in driving soil respiration rates. <i>Soil Biology and Biochemistry</i> , 2018 , 118, 35-41	7.5	62
204	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, 5236-48	4.8	61
203	Distinct microbial communities in the active and permafrost layers on the Tibetan Plateau. <i>Molecular Ecology</i> , 2017 , 26, 6608-6620	5.7	61
202	Contrasting Euryarchaeota communities between upland and paddy soils exhibited similar pH-impacted biogeographic patterns. <i>Soil Biology and Biochemistry</i> , 2013 , 64, 18-27	7.5	61
201	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, 1644-52	5.1	61
200	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	3.4	59
199	Unraveling Microbial Communities Associated with Methylmercury Production in Paddy Soils. <i>Environmental Science & Technology</i> , 2018 , 52, 13110-13118	10.3	57
198	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	10.3	55
197	Abundance and community structure of ammonia-oxidizing Archaea and Bacteria in response to fertilization and mowing in a temperate steppe in Inner Mongolia. <i>FEMS Microbiology Ecology</i> , 2014 , 89, 67-79	4.3	54
196	Effects of mercury on the activity and community composition of soil ammonia oxidizers. <i>Environmental Science and Pollution Research</i> , 2010 , 17, 1237-44	5.1	54
195	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	6.1	51
194	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	6.1	49
193	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	6.1	49
192	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	7.5	48
191	Soil bacterial taxonomic diversity is critical to maintaining the plant productivity. <i>Environment International</i> , 2020 , 140, 105766	12.9	47
190	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	5.2	47

189	Palaeoclimate explains a unique proportion of the global variation in soil bacterial communities. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1339-1347	12.3	44
188	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	5	43
187	Linking soil bacterial diversity to ecosystem multifunctionality using backward-elimination boosted trees analysis. <i>Journal of Soils and Sediments</i> , 2009 , 9, 547-554	3.4	43
186	Fungal richness contributes to multifunctionality in boreal forest soil. <i>Soil Biology and Biochemistry</i> , 2019 , 136, 107526	7.5	41
185	Adaptive responses of comammox Nitrospira 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	10.2	40
184	Frontiers in the microbial processes of ammonia oxidation in soils and sediments. <i>Journal of Soils and Sediments</i> , 2014 , 14, 1023-1029	3.4	40
183	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	5.7	40
182	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	6.1	39
181	Initial copper stress strengthens the resistance of soil microorganisms to a subsequent copper stress. <i>Microbial Ecology</i> , 2014 , 67, 931-41	4.4	39
180	Coupling of soil prokaryotic diversity and plant diversity across latitudinal forest ecosystems. <i>Scientific Reports</i> , 2016 , 6, 19561	4.9	39
179	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	3.4	38
178	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	5.7	38
177	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	5.7	37
176	Influence of rice straw amendment on mercury methylation and nitrification in paddy soils. <i>Environmental Pollution</i> , 2016 , 209, 53-9	9.3	36
175	Diversity of herbaceous plants and bacterial communities regulates soil resistome across forest biomes. <i>Environmental Microbiology</i> , 2018 , 20, 3186-3200	5.2	35
174	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	3.4	35
173	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	5.7	35
172	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	7.5	34

171	Contrasting patterns and drivers of soil bacterial and fungal diversity across a mountain gradient. <i>Environmental Microbiology</i> , 2020 , 22, 3287-3301	5.2	33
170	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	5	32
169	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	10.2	31
168	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	7.5	31
167	Multiple factors drive the abundance and diversity of the diazotrophic community in typical farmland soils of China. <i>FEMS Microbiology Ecology</i> , 2019 , 95,	4.3	30
166	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	12.8	30
165	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, 9754-63	5.1	29
164	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	5.2	29
163	Rare taxa maintain the stability of crop mycobiomes and ecosystem functions. <i>Environmental Microbiology</i> , 2021 , 23, 1907-1924	5.2	29
162	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	8.4	28
161	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	3.4	28
160	Antibiotic resistance in urban green spaces mirrors the pattern of industrial distribution. <i>Environment International</i> , 2019 , 132, 105106	12.9	28
159	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	7.5	28
158	Microbial nitrous oxide emissions in dryland ecosystems: mechanisms, microbiome and mitigation. <i>Environmental Microbiology</i> , 2017 , 19, 4808-4828	5.2	26
157	Plant-driven niche differentiation of ammonia-oxidizing bacteria and archaea in global drylands. <i>ISME Journal</i> , 2019 , 13, 2727-2736	11.9	26
156	Fertilization changes soil microbiome functioning, especially phagotrophic protists. <i>Soil Biology and Biochemistry</i> , 2020 , 148, 107863	7.5	26
155	Differentiated Mechanisms of Biochar Mitigating Straw-Induced Greenhouse Gas Emissions in Two Contrasting Paddy Soils. <i>Frontiers in Microbiology</i> , 2018 , 9, 2566	5.7	26
154	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	7.5	25

153	Large-scale patterns of soil antibiotic resistome in Chinese croplands. <i>Science of the Total Environment</i> , 2020 , 712, 136418	10.2	25
152	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	10.2	25
151	Candidatus Brocadia and Candidatus Kuenenia predominated in anammox bacterial community in selected Chinese paddy soils. <i>Journal of Soils and Sediments</i> , 2015 , 15, 1977-1986	3.4	24
150	Effects of super absorbent polymers on soil microbial properties and Chinese cabbage (<i>Brassica chinensis</i>) growth. <i>Journal of Soils and Sediments</i> , 2013 , 13, 711-719	3.4	24
149	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	10.2	24
148	Nitrogen Addition Decreases Dissimilatory Nitrate Reduction to Ammonium in Rice Paddies. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	23
147	Rare earth oxide nanoparticles promote soil microbial antibiotic resistance by selectively enriching antibiotic resistance genes. <i>Environmental Science: Nano</i> , 2019 , 6, 456-466	7.1	22
146	Temporal dynamics of fungal communities in soybean rhizosphere. <i>Journal of Soils and Sediments</i> , 2017 , 17, 491-498	3.4	22
145	Ecological drivers of biogeographic patterns of soil archaeal community. <i>PLoS ONE</i> , 2013 , 8, e63375	3.7	22
144	Distributions and environmental drivers of archaea and bacteria in paddy soils. <i>Journal of Soils and Sediments</i> , 2019 , 19, 23-37	3.4	21
143	Dynamics of sulfate reduction and sulfate-reducing prokaryotes in anaerobic paddy soil amended with rice straw. <i>Biology and Fertility of Soils</i> , 2010 , 46, 283-291	6.1	21
142	Niche differentiation of clade A comammox Nitrospira and canonical ammonia oxidizers in selected forest soils. <i>Soil Biology and Biochemistry</i> , 2020 , 149, 107925	7.5	21
141	Growth of comammox Nitrospira is inhibited by nitrification inhibitors in agricultural soils. <i>Journal of Soils and Sediments</i> , 2020 , 20, 621-628	3.4	21
140	Fertilization alters protistan consumers and parasites in crop-associated microbiomes. <i>Environmental Microbiology</i> , 2021 , 23, 2169-2183	5.2	21
139	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	12.9	21
138	Interactive effects of multiple climate change factors on ammonia oxidizers and denitrifiers in a temperate steppe. <i>FEMS Microbiology Ecology</i> , 2017 , 93,	4.3	20
137	Sorption mechanism and distribution of cadmium by different microbial species. <i>Journal of Environmental Management</i> , 2019 , 237, 552-559	7.9	20
136	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	3.4	20

135	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	4.4	20
134	Cr(III) oxidation coupled with Mn(II) bacterial oxidation in the environment. <i>Journal of Soils and Sediments</i> , 2010 , 10, 767-773	3.4	20
133	Fate of antibiotic resistance genes during high-solid anaerobic co-digestion of pig manure with lignite. <i>Bioresource Technology</i> , 2020 , 303, 122906	11	20
132	Genetic and functional diversity of ubiquitous DNA viruses in selected Chinese agricultural soils. <i>Scientific Reports</i> , 2017 , 7, 45142	4.9	19
131	Long-term nickel exposure altered the bacterial community composition but not diversity in two contrasting agricultural soils. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 10496-505	5.1	19
130	Bacterial composition and spatiotemporal variation in sediments of Jiaozhou Bay, China. <i>Journal of Soils and Sediments</i> , 2015 , 15, 732-744	3.4	19
129	Responses of soil microbial community to nitrogen fertilizer and precipitation regimes in a semi-arid steppe. <i>Journal of Soils and Sediments</i> , 2018 , 18, 762-774	3.4	19
128	Effects of land utilization patterns on soil microbial communities in an acid red soil based on DNA and PLFA analyses. <i>Journal of Soils and Sediments</i> , 2013 , 13, 1223-1231	3.4	19
127	The influence of soil age on ecosystem structure and function across biomes. <i>Nature Communications</i> , 2020 , 11, 4721	17.4	19
126	Soil aggregate size and long-term fertilization effects on the function and community of ammonia oxidizers. <i>Geoderma</i> , 2019 , 338, 107-117	6.7	19
125	Enhanced nitrogen retention by lignite during poultry litter composting. <i>Journal of Cleaner Production</i> , 2020 , 277, 122422	10.3	18
124	Differential response of archaeal groups to land use change in an acidic red soil. <i>Science of the Total Environment</i> , 2013 , 461-462, 742-9	10.2	18
123	Ectomycorrhizal fungi inoculation alleviates simulated acid rain effects on soil ammonia oxidizers and denitrifiers in Masson pine forest. <i>Environmental Microbiology</i> , 2019 , 21, 299-313	5.2	18
122	Diversity and potential biogeochemical impacts of viruses in bulk and rhizosphere soils. <i>Environmental Microbiology</i> , 2021 , 23, 588-599	5.2	18
121	Plant developmental stage drives the differentiation in ecological role of the maize microbiome. <i>Microbiome</i> , 2021 , 9, 171	16.6	18
120	Copper pollution decreases the resistance of soil microbial community to subsequent dry-rewetting disturbance. <i>Journal of Environmental Sciences</i> , 2016 , 39, 155-164	6.4	17
119	Shifts in the abundance and community structure of soil ammonia oxidizers in a wet sclerophyll forest under long-term prescribed burning. <i>Science of the Total Environment</i> , 2014 , 470-471, 578-86	10.2	17
118	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	5.7	17

117	Response of ammonia-oxidizing archaea and bacteria to long-term industrial effluent-polluted soils, Gujarat, Western India. <i>Environmental Monitoring and Assessment</i> , 2014 , 186, 4037-50	3.1	16
116	Niche differentiation of comammox Nitrospira and canonical ammonia oxidizers in soil aggregate fractions following 27-year fertilizations. <i>Agriculture, Ecosystems and Environment</i> , 2020 , 304, 107147	5.7	16
115	Effects of the nitrification inhibitor dicyandiamide (DCD) on N ₂ O emissions and the abundance of nitrifiers and denitrifiers in two contrasting agricultural soils. <i>Journal of Soils and Sediments</i> , 2017 , 17, 1635-1643	3.4	15
114	Short-term copper exposure as a selection pressure for antibiotic resistance and metal resistance in an agricultural soil. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 29314-29324	5.1	15
113	Ammonia oxidizers and denitrifiers in response to reciprocal elevation translocation in an alpine meadow on the Tibetan Plateau. <i>Journal of Soils and Sediments</i> , 2014 , 14, 1189-1199	3.4	15
112	Contrasting response of two grassland soils to N addition and moisture levels: N ₂ O emission and functional gene abundance. <i>Journal of Soils and Sediments</i> , 2017 , 17, 384-392	3.4	15
111	Climatic factors have unexpectedly strong impacts on soil bacterial diversity in 12 forest ecosystems. <i>Soil Biology and Biochemistry</i> , 2020 , 142, 107699	7.5	15
110	Oxytetracycline and Ciprofloxacin Exposure Altered the Composition of Protistan Consumers in an Agricultural Soil. <i>Environmental Science & Technology</i> , 2020 , 54, 9556-9563	10.3	15
109	Potential of indigenous crop microbiomes for sustainable agriculture. <i>Nature Food</i> , 2021 , 2, 233-240	14.4	15
108	Effects of the nitrification inhibitor acetylene on nitrous oxide emissions and ammonia-oxidizing microorganisms of different agricultural soils under laboratory incubation conditions. <i>Applied Soil Ecology</i> , 2017 , 119, 80-90	5	14
107	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	10.2	14
106	Impacts of long-term nitrogen addition, watering and mowing on ammonia oxidizers, denitrifiers and plant communities in a temperate steppe. <i>Applied Soil Ecology</i> , 2018 , 130, 241-250	5	14
105	Primary Succession of Nitrogen Cycling Microbial Communities Along the Deglaciated Forelands of Tianshan Mountain, China. <i>Frontiers in Microbiology</i> , 2016 , 7, 1353	5.7	14
104	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	7.5	14
103	Autotrophic archaeal nitrification is preferentially stimulated by rice callus mineralization in a paddy soil. <i>Plant and Soil</i> , 2019 , 445, 55-69	4.2	13
102	Lime and ammonium carbonate fumigation coupled with bio-organic fertilizer application steered banana rhizosphere to assemble a unique microbiome against Panama disease. <i>Microbial Biotechnology</i> , 2019 , 12, 515-527	6.3	13
101	Microbial functional traits in phyllosphere are more sensitive to anthropogenic disturbance than in soil. <i>Environmental Pollution</i> , 2020 , 265, 114954	9.3	13
100	High-solid anaerobic co-digestion of pig manure with lignite promotes methane production. <i>Journal of Cleaner Production</i> , 2020 , 258, 120695	10.3	13

99	Effects of nitrogen application rate and a nitrification inhibitor dicyandiamide on methanotroph abundance and methane uptake in a grazed pasture soil. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 8680-9	5.1	13
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95	Impacts of Projected Climate Warming and Wetting on Soil Microbial Communities in Alpine Grassland Ecosystems of the Tibetan Plateau. <i>Microbial Ecology</i> , 2018 , 75, 1009-1023	4.4	12
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93	Industrial development as a key factor explaining variances in soil and grass phyllosphere microbiomes in urban green spaces. <i>Environmental Pollution</i> , 2020 , 261, 114201	9.3	11
92	Changes in soil nematode abundance and composition under elevated [CO ₂] and canopy warming in a rice paddy field. <i>Plant and Soil</i> , 2019 , 445, 425-437	4.2	11
91	Contrasting response of nitrification capacity in three agricultural soils to N addition during short-term incubation. <i>Journal of Soils and Sediments</i> , 2014 , 14, 1861-1868	3.4	11
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89	Manure Application Did Not Enrich Antibiotic Resistance Genes in Root Endophytic Bacterial Microbiota of Cherry Radish Plants. <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	11
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85	Deterministic selection dominates microbial community assembly in termite mounds. <i>Soil Biology and Biochemistry</i> , 2021 , 152, 108073	7.5	10
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68	Plant Diversity Enhances Soil Fungal Diversity and Microbial Resistance to Plant Invasion. <i>Applied and Environmental Microbiology</i> , 2021 , 87,	4.8	7
67	Impact of sulfate and iron oxide on bacterial community dynamics in paddy soil under alternate watering conditions. <i>Journal of Hazardous Materials</i> , 2021 , 408, 124417	12.8	7
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60	DNA stable isotope probing revealed no incorporation of $^{13}\text{CO}_2$ into comammox Nitrospira but ammonia-oxidizing archaea in a subtropical acid soil. <i>Journal of Soils and Sediments</i> , 2020 , 20, 1297-1308	3.4	5
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54	Grazing does not increase soil antibiotic resistome in two types of grasslands in Inner Mongolia, China. <i>Applied Soil Ecology</i> , 2020 , 155, 103644	5	4
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52	Intraspecies variation in a widely distributed tree species regulates the responses of soil microbiome to different temperature regimes. <i>Environmental Microbiology Reports</i> , 2018 , 10, 167-178	3.7	4
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44	Seasonal dynamics of soil microbial diversity and functions along elevations across the treeline. <i>Science of the Total Environment</i> , 2021 , 794, 148644	10.2	3
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39	Soil organic carbon and total nitrogen predict large-scale distribution of soil fungal communities in temperate and alpine shrub ecosystems. <i>European Journal of Soil Biology</i> , 2021 , 102, 103270	2.9	2
38	The Proportion of Soil-Borne Fungal Pathogens Increases with Elevated Organic Carbon in Agricultural Soils.. <i>MSystems</i> , 2022 , e0133721	7.6	2
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35	Long-term application of swine manure and sewage sludge differently impacts antibiotic resistance genes in soil and phyllosphere. <i>Geoderma</i> , 2022 , 411, 115698	6.7	1
34	Distribution of soil viruses across China and their potential role in phosphorous metabolism.. <i>Environmental Microbiomes</i> , 2022 , 17, 6	5.6	1
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32	Conversion of grassland to cropland altered soil nitrogen-related microbial communities at large scales. <i>Science of the Total Environment</i> , 2021 , 816, 151645	10.2	1
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29	Influence of Legacy Mercury on Antibiotic Resistomes: Evidence from Agricultural Soils with Different Cropping Systems. <i>Environmental Science & Technology</i> , 2021 , 55, 13913-13922	10.3	1
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23	Successional patterns of bacterial communities and their functions in shrimp aquaculture pond water across farming phases. <i>Aquaculture Research</i> ,	1.9	1
22	Specific protistan consumers and parasites are responsive to inorganic fertilization in rhizosphere and bulk soils. <i>Journal of Soils and Sediments</i> ,1	3.4	1
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19	Environmental filtering controls soil biodiversity in wet tropical ecosystems. <i>Soil Biology and Biochemistry</i> , 2022 , 166, 108571	7.5	0
18	Aridity decreases soil protistan network complexity and stability. <i>Soil Biology and Biochemistry</i> , 2022 , 166, 108575	7.5	0
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15	The accumulation of microbial residues and plant lignin phenols are more influenced by fertilization in young than mature subtropical forests. <i>Forest Ecology and Management</i> , 2022 , 509, 120074	3.9	0
14	Arbuscular mycorrhiza fungi increase soil denitrifier abundance relating to vegetation community. <i>Applied Soil Ecology</i> , 2022 , 171, 104325	5	0
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11	Generalist Taxa Shape Fungal Community Structure in Cropping Ecosystems. <i>Frontiers in Microbiology</i> , 2021 , 12, 678290	5.7	0
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8	Niche specialization of comammox Nitrospira in terrestrial ecosystems: Oligotrophic or copiotrophic?. <i>Critical Reviews in Environmental Science and Technology</i> ,1-16	11.1	o
7	Fertilization has a greater effect than rhizosphere on community structures of comammox Nitrospira in an alkaline agricultural soil. <i>Applied Soil Ecology</i> , 2022 , 175, 104456	5	o
6	The overlap of soil and vegetable microbes drives the transfer of antibiotic resistance genes from manure-amended soil to vegetables.. <i>Science of the Total Environment</i> , 2022 , 154463	10.2	o
5	Nitrous oxide production pathways in Australian forest soils. <i>Geoderma</i> , 2022 , 420, 115871	6.7	o
4	Soil bacterial communities triggered by organic matter inputs associates with a high-yielding pear production. <i>Soil</i> , 2022 , 8, 337-348	5.8	o
3	Semi-solid state promotes the methane production during anaerobic co-digestion of chicken manure with corn straw comparison to wet and high-solid state.. <i>Journal of Environmental Management</i> , 2022 , 316, 115264	7.9	o
2	Reduced pH is the primary factor promoting humic acid formation during hyperthermophilic pretreatment composting.. <i>Journal of Environmental Management</i> , 2022 , 316, 115215	7.9	o
1	Natural selenium stress influences the changes of antibiotic resistome in seleniferous forest soils.. <i>Environmental Microbiomes</i> , 2022 , 17, 26	5.6	o