

# Ji-Zheng He

## List of Publications by Year in Descending Order

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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.

298  
papers

14,099  
citations

62  
h-index

108  
g-index

314  
ext. papers

18,272  
ext. citations

6.2  
avg, IF

6.95  
L-index

#	Paper	IF	Citations
298	Plant Species-Driven Distribution of Individual Clades of Comammox Nitrospira in a Subtropical Estuarine Wetland.. <i>Microbial Ecology</i> , <b>2022</b> , 1	4.4	0
297	Environmental filtering controls soil biodiversity in wet tropical ecosystems. <i>Soil Biology and Biochemistry</i> , <b>2022</b> , 166, 108571	7.5	0
296	Aridity decreases soil protistan network complexity and stability. <i>Soil Biology and Biochemistry</i> , <b>2022</b> , 166, 108575	7.5	0
295	Distribution of soil viruses across China and their potential role in phosphorous metabolism.. <i>Environmental Microbiomes</i> , <b>2022</b> , 17, 6	5.6	1
294	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> , <b>2022</b> , 509, 120074	3.9	0
293	Climate warming increases the proportions of specific antibiotic resistance genes in natural soil ecosystems.. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 430, 128442	12.8	2
292	Arbuscular mycorrhiza fungi increase soil denitrifier abundance relating to vegetation community. <i>Applied Soil Ecology</i> , <b>2022</b> , 171, 104325	5	0
291	Proximity to subsurface drip irrigation emitters altered soil microbial communities in two commercial processing tomato fields. <i>Applied Soil Ecology</i> , <b>2022</b> , 171, 104315	5	1
290	Attenuation of antibiotic resistance genes in livestock manure through vermicomposting via <i>Protaetia brevitarsis</i> and its fate in a soil-vegetable system. <i>Science of the Total Environment</i> , <b>2022</b> , 807, 150781	10.2	3
289	Differentiation of individual clusters of comammox Nitrospira in an acidic Ultisol following long-term fertilization. <i>Applied Soil Ecology</i> , <b>2022</b> , 170, 104267	5	0
288	Modification of naturally abundant resources for remediation of potentially toxic elements: A review. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 421, 126755	12.8	6
287	Modified lignite and black coal reduce ammonia volatilization from cattle manure. <i>Journal of Environmental Management</i> , <b>2022</b> , 301, 113807	7.9	5
286	Organic fertilization regimes suppress fungal plant pathogens through modulating the resident bacterial and protistan communities <b>2022</b> , 1, 43-53		0
285	Distribution Characteristics of Soil Viruses Under Different Precipitation Gradients on the Qinghai-Tibet Plateau.. <i>Frontiers in Microbiology</i> , <b>2022</b> , 13, 848305	5.7	0
284	Fertilization has a greater effect than rhizosphere on community structures of comammox Nitrospira in an alkaline agricultural soil. <i>Applied Soil Ecology</i> , <b>2022</b> , 175, 104456	5	0
283	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> , <b>2022</b> , 316, 115264	7.9	0
282	Natural selenium stress influences the changes of antibiotic resistome in seleniferous forest soils.. <i>Environmental Microbiomes</i> , <b>2022</b> , 17, 26	5.6	0

281	Surface modification of coal tailings by thermal air oxidation for ammonia capture. <i>Journal of Cleaner Production</i> , <b>2022</b> , 132525	10.3	
280	Livestock manure spiked with the antibiotic tylosin significantly altered soil protist functional groups. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 427, 127867	12.8	1
279	Unravelling the ecological complexity of soil viromes: Challenges and opportunities. <i>Science of the Total Environment</i> , <b>2021</b> , 152217	10.2	1
278	Termite mounds reduce soil microbial diversity by filtering rare microbial taxa. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 2659-2668	5.2	1
277	Potential of indigenous crop microbiomes for sustainable agriculture. <i>Nature Food</i> , <b>2021</b> , 2, 233-240	14.4	15
276	Biotic and abiotic factors distinctly drive contrasting biogeographic patterns between phyllosphere and soil resistomes in natural ecosystems. <i>ISME Communications</i> , <b>2021</b> , 1,		4
275	Fates and Use Efficiency of Nitrogen Fertilizer in Maize Cropping Systems and Their Responses to Technologies and Management Practices: A Global Analysis on Field 15N Tracer Studies. <i>Earth's Future</i> , <b>2021</b> , 9, e2020EF001514	7.9	8
274	Niche specialization of comammox Nitrospira clade A in terrestrial ecosystems. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 156, 108231	7.5	5
273	Plant Diversity Enhances Soil Fungal Diversity and Microbial Resistance to Plant Invasion. <i>Applied and Environmental Microbiology</i> , <b>2021</b> , 87,	4.8	7
272	Termite mound formation reduces the abundance and diversity of soil resistomes. <i>Environmental Microbiology</i> , <b>2021</b> ,	5.2	1
271	Host Species and Geography Differentiate Honeybee Gut Bacterial Communities by Changing the Relative Contribution of Community Assembly Processes. <i>MBio</i> , <b>2021</b> , 12, e0075121	7.8	6
270	Assembly processes lead to divergent soil fungal communities within and among 12 forest ecosystems along a latitudinal gradient. <i>New Phytologist</i> , <b>2021</b> , 231, 1183-1194	9.8	0
269	Agricultural land-use change and rotation system exert considerable influences on the soil antibiotic resistome in Lake Tai Basin. <i>Science of the Total Environment</i> , <b>2021</b> , 771, 144848	10.2	5
268	Global homogenization of the structure and function in the soil microbiome of urban greenspaces. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	10
267	Arbuscular mycorrhizal fungi and plant diversity drive restoration of nitrogen-cycling microbial communities. <i>Molecular Ecology</i> , <b>2021</b> , 30, 4133-4146	5.7	4
266	Diversity and potential biogeochemical impacts of viruses in bulk and rhizosphere soils. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 588-599	5.2	18
265	Dissimilatory nitrate ammonification and N <sub>2</sub> fixation helps maintain nitrogen nutrition in resource-limited rice paddies. <i>Biology and Fertility of Soils</i> , <b>2021</b> , 57, 107-115	6.1	5
264	Rare taxa maintain the stability of crop mycobiomes and ecosystem functions. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 1907-1924	5.2	29

263	Adsorbent materials for ammonium and ammonia removal: A review. <i>Journal of Cleaner Production</i> , <b>2021</b> , 283, 124611	10.3	32
262	Manure application increases microbiome complexity in soil aggregate fractions: Results of an 18-year field experiment. <i>Agriculture, Ecosystems and Environment</i> , <b>2021</b> , 307, 107249	5.7	17
261	Deterministic selection dominates microbial community assembly in termite mounds. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 152, 108073	7.5	10
260	Microbial communities in crop phyllosphere and root endosphere are more resistant than soil microbiota to fertilization. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 153, 108113	7.5	14
259	Host selection shapes crop microbiome assembly and network complexity. <i>New Phytologist</i> , <b>2021</b> , 229, 1091-1104	9.8	80
258	Fertilization alters protistan consumers and parasites in crop-associated microbiomes. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 2169-2183	5.2	21
257	Generalist Taxa Shape Fungal Community Structure in Cropping Ecosystems. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 678290	5.7	0
256	Plant developmental stage drives the differentiation in ecological role of the maize microbiome. <i>Microbiome</i> , <b>2021</b> , 9, 171	16.6	18
255	Temporal response of ureolytic and ammonia-oxidizing microbes and pasture yield to urea and NBPT at Leigh Creek of Victoria in Australia. <i>Applied Soil Ecology</i> , <b>2021</b> , 164, 103922	5	1
254	Carbon limitation overrides acidification in mediating soil microbial activity to nitrogen enrichment in a temperate grassland. <i>Global Change Biology</i> , <b>2021</b> , 27, 5976-5988	11.4	3
253	Precipitation increases the abundance of fungal plant pathogens in Eucalyptus phyllosphere. <i>Environmental Microbiology</i> , <b>2021</b> ,	5.2	5
252	Distinct factors drive the diversity and composition of protistan consumers and phototrophs in natural soil ecosystems. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 160, 108317	7.5	9
251	Seasonal dynamics of soil microbial diversity and functions along elevations across the treeline. <i>Science of the Total Environment</i> , <b>2021</b> , 794, 148644	10.2	3
250	Ammonia-oxidizing bacteria play an important role in nitrification of acidic soils: A meta-analysis. <i>Geoderma</i> , <b>2021</b> , 404, 115395	6.7	6
249	Soil bacterial taxonomic diversity is critical to maintaining the plant productivity. <i>Environment International</i> , <b>2020</b> , 140, 105766	12.9	47
248	Grazing does not increase soil antibiotic resistome in two types of grasslands in Inner Mongolia, China. <i>Applied Soil Ecology</i> , <b>2020</b> , 155, 103644	5	4
247	Microbial functional attributes, rather than taxonomic attributes, drive top soil respiration, nitrification and denitrification processes. <i>Science of the Total Environment</i> , <b>2020</b> , 734, 139479	10.2	14
246	Enhanced nitrogen retention by lignite during poultry litter composting. <i>Journal of Cleaner Production</i> , <b>2020</b> , 277, 122422	10.3	18

245	Variation of soil nitrate and bacterial diversity along soil profiles in manure disposal maize field and adjacent woodland. <i>Journal of Soils and Sediments</i> , <b>2020</b> , 20, 3557-3568	3.4	4
244	Ecological drivers of methanotrophic communities in paddy soils around mercury mining areas. <i>Science of the Total Environment</i> , <b>2020</b> , 721, 137760	10.2	7
243	Industrial development as a key factor explaining variances in soil and grass phyllosphere microbiomes in urban green spaces. <i>Environmental Pollution</i> , <b>2020</b> , 261, 114201	9.3	11
242	High-solid anaerobic co-digestion of pig manure with lignite promotes methane production. <i>Journal of Cleaner Production</i> , <b>2020</b> , 258, 120695	10.3	13
241	Dissimilatory nitrate reduction to ammonium dominates soil nitrate retention capacity in subtropical forests. <i>Biology and Fertility of Soils</i> , <b>2020</b> , 56, 785-797	6.1	4
240	Contrasting patterns and drivers of soil bacterial and fungal diversity across a mountain gradient. <i>Environmental Microbiology</i> , <b>2020</b> , 22, 3287-3301	5.2	33
239	Transmission of antibiotic resistance genes in agroecosystems: an overview. <i>Frontiers of Agricultural Science and Engineering</i> , <b>2020</b> , 7, 329	1.7	3
238	Healthy soils for sustainable food production and environmental quality. <i>Frontiers of Agricultural Science and Engineering</i> , <b>2020</b> , 7, 347	1.7	3
237	Fate of antibiotic resistance genes during high-solid anaerobic co-digestion of pig manure with lignite. <i>Bioresource Technology</i> , <b>2020</b> , 303, 122906	11	20
236	Fertilization changes soil microbiome functioning, especially phagotrophic protists. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 148, 107863	7.5	26
235	Multiple elements of soil biodiversity drive ecosystem functions across biomes. <i>Nature Ecology and Evolution</i> , <b>2020</b> , 4, 210-220	12.3	160
234	Effects of repeated applications of urea with DMPP on ammonia oxidizers, denitrifiers, and non-targeted microbial communities of an agricultural soil in Queensland, Australia. <i>Applied Soil Ecology</i> , <b>2020</b> , 147, 103392	5	11
233	Manure Application Did Not Enrich Antibiotic Resistance Genes in Root Endophytic Bacterial Microbiota of Cherry Radish Plants. <i>Applied and Environmental Microbiology</i> , <b>2020</b> , 86,	4.8	11
232	Responses of ureolytic and nitrifying microbes to urease and nitrification inhibitors in selected agricultural soils in Victoria, Australia. <i>Journal of Soils and Sediments</i> , <b>2020</b> , 20, 1309-1322	3.4	8
231	Large-scale patterns of soil antibiotic resistome in Chinese croplands. <i>Science of the Total Environment</i> , <b>2020</b> , 712, 136418	10.2	25
230	DNA stable isotope probing revealed no incorporation of <sup>13</sup> CO <sub>2</sub> into comammox Nitrospira but ammonia-oxidizing archaea in a subtropical acid soil. <i>Journal of Soils and Sediments</i> , <b>2020</b> , 20, 1297-1308	3.4	5
229	Climatic factors have unexpectedly strong impacts on soil bacterial diversity in 12 forest ecosystems. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 142, 107699	7.5	15
228	Fertilizer nitrogen use efficiency and fates in maize cropping systems across China: Field <sup>15</sup> N tracer studies. <i>Soil and Tillage Research</i> , <b>2020</b> , 197, 104498	6.5	25

227	Arsenic and cadmium as predominant factors shaping the distribution patterns of antibiotic resistance genes in polluted paddy soils. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 389, 121838	12.8	30
226	Limited effects of depth (080 cm) on communities of archaea, bacteria and fungi in paddy soil profiles. <i>European Journal of Soil Science</i> , <b>2020</b> , 71, 955	3.4	3
225	Rare microbial taxa as the major drivers of ecosystem multifunctionality in long-term fertilized soils. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 141, 107686	7.5	102
224	Host identity determines plant associated resistomes. <i>Environmental Pollution</i> , <b>2020</b> , 258, 113709	9.3	9
223	Microbial regulation of natural antibiotic resistance: Understanding the protist-bacteria interactions for evolution of soil resistome. <i>Science of the Total Environment</i> , <b>2020</b> , 705, 135882	10.2	25
222	Characterization of the copper resistance mechanism and bioremediation potential of an <i>Acinetobacter calcoaceticus</i> strain isolated from copper mine sludge. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 7922-7933	5.1	6
221	Oxytetracycline and Ciprofloxacin Exposure Altered the Composition of Protistan Consumers in an Agricultural Soil. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 9556-9563	10.3	15
220	Tracing boron dynamics in agro-ecosystems using enriched (10B, 11B) stable isotopic signatures: A centennial legacy. <i>Archives of Agronomy and Soil Science</i> , <b>2020</b> , 1-18	2	1
219	Lignite as additives accelerates the removal of antibiotic resistance genes during poultry litter composting. <i>Bioresource Technology</i> , <b>2020</b> , 315, 123841	11	10
218	Niche differentiation of clade A comammox Nitrospira and canonical ammonia oxidizers in selected forest soils. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 149, 107925	7.5	21
217	Lignite ammonia adsorption and surface chemistry after dewatering. <i>Separation and Purification Technology</i> , <b>2020</b> , 253, 117483	8.3	10
216	Niche differentiation of comammox Nitrospira and canonical ammonia oxidizers in soil aggregate fractions following 27-year fertilizations. <i>Agriculture, Ecosystems and Environment</i> , <b>2020</b> , 304, 107147	5.7	16
215	Modification of bituminous coal by air oxidation to increase ammonia capture. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2020</b> , 151, 104930	6	5
214	The influence of soil age on ecosystem structure and function across biomes. <i>Nature Communications</i> , <b>2020</b> , 11, 4721	17.4	19
213	Greater promotion of DNRA rates and nrfA gene transcriptional activity by straw incorporation in alkaline than in acidic paddy soils. <i>Soil Ecology Letters</i> , <b>2020</b> , 2, 255-267	2.7	2
212	Growth of comammox Nitrospira is inhibited by nitrification inhibitors in agricultural soils. <i>Journal of Soils and Sediments</i> , <b>2020</b> , 20, 621-628	3.4	21
211	Antibiotic resistance in urban green spaces mirrors the pattern of industrial distribution. <i>Environment International</i> , <b>2019</b> , 132, 105106	12.9	28
210	Plant evenness modulates the effect of plant richness on soil bacterial diversity. <i>Science of the Total Environment</i> , <b>2019</b> , 662, 8-14	10.2	11

209	Rare earth oxide nanoparticles promote soil microbial antibiotic resistance by selectively enriching antibiotic resistance genes. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 456-466	7.1	22
208	Transfer of antibiotic resistance from manure-amended soils to vegetable microbiomes. <i>Environment International</i> , <b>2019</b> , 130, 104912	12.9	133
207	Microwave Soil Treatment Increases Soil Nitrogen Supply for Sustained Wheat Productivity. <i>Transactions of the ASABE</i> , <b>2019</b> , 62, 355-362	0.9	8
206	Sorption mechanism and distribution of cadmium by different microbial species. <i>Journal of Environmental Management</i> , <b>2019</b> , 237, 552-559	7.9	20
205	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> , <b>2019</b> , 668, 193-203	10.2	31
204	Protist communities are more sensitive to nitrogen fertilization than other microorganisms in diverse agricultural soils. <i>Microbiome</i> , <b>2019</b> , 7, 33	16.6	120
203	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> , <b>2019</b> , 668, 224-233	10.2	40
202	Viral metagenomics analysis and eight novel viral genomes identified from the Dushanzi mud volcanic soil in Xinjiang, China. <i>Journal of Soils and Sediments</i> , <b>2019</b> , 19, 81-90	3.4	8
201	Distributions and environmental drivers of archaea and bacteria in paddy soils. <i>Journal of Soils and Sediments</i> , <b>2019</b> , 19, 23-37	3.4	21
200	Impact of microwave disinfestation treatments on the bacterial communities of no-till agricultural soils. <i>European Journal of Soil Science</i> , <b>2019</b> , 71, 1006	3.4	7
199	Distribution and Succession Feature of Antibiotic Resistance Genes Along a Soil Development Chronosequence in Urumqi No.1 Glacier of China. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 1569	5.7	3
198	Multiple factors drive the abundance and diversity of the diazotrophic community in typical farmland soils of China. <i>FEMS Microbiology Ecology</i> , <b>2019</b> , 95,	4.3	30
197	Comammox Nitrospira play an active role in nitrification of agricultural soils amended with nitrogen fertilizers. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 138, 107609	7.5	66
196	Effect of treated farm dairy effluents, with or without animal urine, on nitrous oxide emissions, ammonia oxidisers and denitrifiers in the soil. <i>Journal of Soils and Sediments</i> , <b>2019</b> , 19, 2330-2345	3.4	8
195	Dissimilatory nitrate reduction to ammonium dominates nitrate reduction in long-term low nitrogen fertilized rice paddies. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 131, 149-156	7.5	28
194	Ectomycorrhizal fungi inoculation alleviates simulated acid rain effects on soil ammonia oxidizers and denitrifiers in Masson pine forest. <i>Environmental Microbiology</i> , <b>2019</b> , 21, 299-313	5.2	18
193	Soil aggregate size and long-term fertilization effects on the function and community of ammonia oxidizers. <i>Geoderma</i> , <b>2019</b> , 338, 107-117	6.7	19
192	Diversity of herbaceous plants and bacterial communities regulates soil resistome across forest biomes. <i>Environmental Microbiology</i> , <b>2018</b> , 20, 3186-3200	5.2	35



191	The biogeography of fungal communities in paddy soils is mainly driven by geographic distance. <i>Journal of Soils and Sediments</i> , <b>2018</b> , 18, 1795-1805	3.4	20
190	Intraspecies variation in a widely distributed tree species regulates the responses of soil microbiome to different temperature regimes. <i>Environmental Microbiology Reports</i> , <b>2018</b> , 10, 167-178	3.7	4
189	Responses of soil microbial community to nitrogen fertilizer and precipitation regimes in a semi-arid steppe. <i>Journal of Soils and Sediments</i> , <b>2018</b> , 18, 762-774	3.4	19
188	Fates of 15N-labeled fertilizer in a black soil-maize system and the response to straw incorporation in Northeast China. <i>Journal of Soils and Sediments</i> , <b>2018</b> , 18, 1441-1452	3.4	12
187	Diversity and Distribution Characteristics of Viruses in Soils of a Marine-Terrestrial Ecotone in East China. <i>Microbial Ecology</i> , <b>2018</b> , 75, 375-386	4.4	10
186	Aerobic composting reduces antibiotic resistance genes in cattle manure and the resistome dissemination in agricultural soils. <i>Science of the Total Environment</i> , <b>2018</b> , 612, 1300-1310	10.2	125
185	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> , <b>2018</b> , 130, 241-250	5	14
184	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> , <b>2018</b> , 25, 29314-29324	5.1	15
183	New insights into the role of microbial community composition in driving soil respiration rates. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 118, 35-41	7.5	62
182	Impacts of Projected Climate Warming and Wetting on Soil Microbial Communities in Alpine Grassland Ecosystems of the Tibetan Plateau. <i>Microbial Ecology</i> , <b>2018</b> , 75, 1009-1023	4.4	12
181	Understanding the mechanisms for the lower nitrous oxide emissions from fodder beet urine compared with kale urine from dairy cows. <i>Journal of Soils and Sediments</i> , <b>2018</b> , 18, 85-93	3.4	5
180	Unraveling Microbial Communities Associated with Methylmercury Production in Paddy Soils. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 13110-13118	10.3	57
179	Differentiated Mechanisms of Biochar Mitigating Straw-Induced Greenhouse Gas Emissions in Two Contrasting Paddy Soils. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 2566	5.7	26
178	Consistent responses of soil microbial taxonomic and functional attributes to mercury pollution across China. <i>Microbiome</i> , <b>2018</b> , 6, 183	16.6	66
177	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> , <b>2018</b> , 126, 114-122	7.5	63
176	Manipulating the soil microbiome for improved nitrogen management. <i>Microbiology Australia</i> , <b>2018</b> , 39, 24	0.8	10
175	Nitrogen Addition Decreases Dissimilatory Nitrate Reduction to Ammonium in Rice Paddies. <i>Applied and Environmental Microbiology</i> , <b>2018</b> , 84,	4.8	23
174	Identity of biocrust species and microbial communities drive the response of soil multifunctionality to simulated global change. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 107, 208-217	7.5	48



173	Effects of different agricultural wastes on the dissipation of PAHs and the PAH-degrading genes in a PAH-contaminated soil. <i>Chemosphere</i> , <b>2017</b> , 172, 286-293	8.4	28
172	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> , <b>2017</b> , 17, 974-984	3.4	28
171	Comparison of Archaeal Populations in Soil and Their Encapsulated Iron-Manganese Nodules in Four Locations Spanning from North to South China. <i>Geomicrobiology Journal</i> , <b>2017</b> , 34, 811-822	2.5	2
170	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> , <b>2017</b> , 53, 601-611	6.1	49
169	Microbial nitrous oxide emissions in dryland ecosystems: mechanisms, microbiome and mitigation. <i>Environmental Microbiology</i> , <b>2017</b> , 19, 4808-4828	5.2	26
168	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> , <b>2017</b> , 112, 77-89	7.5	34
167	Interactive effects of multiple climate change factors on ammonia oxidizers and denitrifiers in a temperate steppe. <i>FEMS Microbiology Ecology</i> , <b>2017</b> , 93,	4.3	20
166	Copper Pollution Increases the Resistance of Soil Archaeal Community to Changes in Water Regime. <i>Microbial Ecology</i> , <b>2017</b> , 74, 877-887	4.4	5
165	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> , <b>2017</b> , 119, 80-90	5	14
164	Genetic and functional diversity of ubiquitous DNA viruses in selected Chinese agricultural soils. <i>Scientific Reports</i> , <b>2017</b> , 7, 45142	4.9	19
163	15N <sub>2</sub> as a tracer of biological N <sub>2</sub> fixation: A 75-year retrospective. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 106, 36-50	7.5	26
162	Contrasting effects of nitrogen forms and soil pH on ammonia oxidizing microorganisms and their responses to long-term nitrogen fertilization in a typical steppe ecosystem. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 107, 10-18	7.5	57
161	The effect of temperature and moisture on the source of N <sub>2</sub> O and contributions from ammonia oxidizers in an agricultural soil. <i>Biology and Fertility of Soils</i> , <b>2017</b> , 53, 141-152	6.1	51
160	Effects of the nitrification inhibitor dicyandiamide (DCD) on N <sub>2</sub> O emissions and the abundance of nitrifiers and denitrifiers in two contrasting agricultural soils. <i>Journal of Soils and Sediments</i> , <b>2017</b> , 17, 1635-1643	3.4	15
159	Long-Term Nickel Contamination Increases the Occurrence of Antibiotic Resistance Genes in Agricultural Soils. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 790-800	10.3	159
158	Temporal succession of soil antibiotic resistance genes following application of swine, cattle and poultry manures spiked with or without antibiotics. <i>Environmental Pollution</i> , <b>2017</b> , 231, 1621-1632	9.3	100
157	Comammox <sup>®</sup> newly discovered nitrification process in the terrestrial nitrogen cycle. <i>Journal of Soils and Sediments</i> , <b>2017</b> , 17, 2709-2717	3.4	118
156	Palaeoclimate explains a unique proportion of the global variation in soil bacterial communities. <i>Nature Ecology and Evolution</i> , <b>2017</b> , 1, 1339-1347	12.3	44

155	Harnessing microbiome-based biotechnologies for sustainable mitigation of nitrous oxide emissions. <i>Microbial Biotechnology</i> , <b>2017</b> , 10, 1226-1231	6.3	9
154	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> , <b>2017</b> , 19, 4851-4865	5.2	47
153	Fungal networks serve as novel ecological routes for enrichment and dissemination of antibiotic resistance genes as exhibited by microcosm experiments. <i>Scientific Reports</i> , <b>2017</b> , 7, 15457	4.9	13
152	Unique community structure of viruses in a glacier soil of the Tianshan Mountains, China. <i>Journal of Soils and Sediments</i> , <b>2017</b> , 17, 852-860	3.4	6
151	Temporal dynamics of fungal communities in soybean rhizosphere. <i>Journal of Soils and Sediments</i> , <b>2017</b> , 17, 491-498	3.4	22
150	Contrasting response of two grassland soils to N addition and moisture levels: N <sub>2</sub> O emission and functional gene abundance. <i>Journal of Soils and Sediments</i> , <b>2017</b> , 17, 384-392	3.4	15
149	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> , <b>2017</b> , 8, 945	5.7	40
148	Effects of climate warming and elevated CO <sub>2</sub> on autotrophic nitrification and nitrifiers in dryland ecosystems. <i>Soil Biology and Biochemistry</i> , <b>2016</b> , 92, 1-15	7.5	65
147	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> , <b>2016</b> , 52, 927-939	6.1	39
146	Effects of Cellular Sorption on Mercury Bioavailability and Methylmercury Production by <i>Desulfovibrio desulfuricans</i> ND132. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 13335-13341	10.3	55
145	Variability of heavy metal content in soils of typical Tibetan grasslands. <i>RSC Advances</i> , <b>2016</b> , 6, 105398-105405	10.4	4
144	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> , <b>2016</b> , 72, 221-230	4.4	20
143	Effects of the Nitrification Inhibitor 3,4-Dimethylpyrazole Phosphate on Nitrification and Nitrifiers in Two Contrasting Agricultural Soils. <i>Applied and Environmental Microbiology</i> , <b>2016</b> , 82, 5236-48	4.8	61
142	Copper pollution decreases the resistance of soil microbial community to subsequent dry-rewetting disturbance. <i>Journal of Environmental Sciences</i> , <b>2016</b> , 39, 155-164	6.4	17
141	Influence of rice straw amendment on mercury methylation and nitrification in paddy soils. <i>Environmental Pollution</i> , <b>2016</b> , 209, 53-9	9.3	36
140	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> , <b>2016</b> , 96, 128-136	7.5	31
139	Impacts of reclaimed water irrigation on soil antibiotic resistome in urban parks of Victoria, Australia. <i>Environmental Pollution</i> , <b>2016</b> , 211, 48-57	9.3	66
138	Temporal changes of antibiotic-resistance genes and bacterial communities in two contrasting soils treated with cattle manure. <i>FEMS Microbiology Ecology</i> , <b>2016</b> , 92,	4.3	77

137	Primary Succession of Nitrogen Cycling Microbial Communities Along the Deglaciated Forelands of Tianshan Mountain, China. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 1353	5.7	14
136	Nitrification Is a Primary Driver of Nitrous Oxide Production in Laboratory Microcosms from Different Land-Use Soils. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 1373	5.7	35
135	Field-based evidence for copper contamination induced changes of antibiotic resistance in agricultural soils. <i>Environmental Microbiology</i> , <b>2016</b> , 18, 3896-3909	5.2	150
134	Coupling of soil prokaryotic diversity and plant diversity across latitudinal forest ecosystems. <i>Scientific Reports</i> , <b>2016</b> , 6, 19561	4.9	39
133	Plant community, geographic distance and abiotic factors play different roles in predicting AMF biogeography at the regional scale in northern China. <i>Environmental Microbiology</i> , <b>2016</b> , 8, 1048	5.2	1
132	Effects of dicyandiamide and acetylene on NO emissions and ammonia oxidizers in a fluvo-aquic soil applied with urea. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 23023-23033	5.1	8
131	Longitudinal occurrence of methylmercury in terrestrial ecosystems of the Tibetan Plateau. <i>Environmental Pollution</i> , <b>2016</b> , 218, 1342-1349	9.3	8
130	Plant community, geographic distance and abiotic factors play different roles in predicting AMF biogeography at the regional scale in northern China. <i>Environmental Microbiology Reports</i> , <b>2016</b> , 8, 1048-1057	3.7	38
129	Nitrogen fertiliser-induced changes in N <sub>2</sub> 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> , <b>2016</b> , 52, 1163-1171	6.1	49
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20	Multivariate geostatistical analysis of heavy metals in topsoils from Beijing, China. <i>Journal of Soils and Sediments</i> , <b>2008</b> , 8, 51-58	3.4	117
19	Change of bacterial communities in sediments along Songhua River in Northeastern China after a nitrobenzene pollution event. <i>FEMS Microbiology Ecology</i> , <b>2008</b> , 65, 494-503	4.3	34
18	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> , <b>2007</b> , 9, 2364-74	5.2	755
17	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> , <b>2007</b> , 9, 3152-3152	5.2	29
16	Soil enzymatic activities and microbial community structure with different application rates of Cd and Pb. <i>Journal of Environmental Sciences</i> , <b>2007</b> , 19, 834-40	6.4	138
15	Subject Editor: Jizheng (Jim) He. <i>Journal of Soils and Sediments</i> , <b>2007</b> , 7, 64-64	3.4	
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7	Factors governing formation of todorokite at atmospheric pressure. <i>Science in China Series D: Earth Sciences</i> , <b>2005</b> , 48, 1678-1689		7
6	Secondary Adsorption of Phosphate on Aluminum Oxides Surfaces as Influenced by Several Organic Acids. <i>Journal of Plant Nutrition</i> , <b>2004</b> , 27, 637-649	2.3	1
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4	COMPETITIVE ADSORPTION OF SULFATE AND OXALATE ON GOETHITE IN THE ABSENCE OR PRESENCE OF PHOSPHATE. <i>Soil Science</i> , <b>1999</b> , 164, 180-189	0.9	56
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1	Niche specialization of comammox Nitrospira in terrestrial ecosystems: Oligotrophic or copiotrophic?. <i>Critical Reviews in Environmental Science and Technology</i> , 1-16	11.1	0