

Ji-Zheng He

List of Publications by Citations

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298
papers

14,099
citations

62
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108
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314
ext. papers

18,272
ext. citations

6.2
avg, IF

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L-index

#	Paper	IF	Citations
298	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
297	Nitrification driven by bacteria and not archaea in nitrogen-rich grassland soils. <i>Nature Geoscience</i> , 2009 , 2, 621-624	18.3	622
296	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
295	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
294	Ammonia-oxidizing bacteria and archaea grow under contrasting soil nitrogen conditions. <i>FEMS Microbiology Ecology</i> , 2010 , 72, 386-94	4.3	354
293	Phylogenetic beta diversity in bacterial assemblages across ecosystems: deterministic versus stochastic processes. <i>ISME Journal</i> , 2013 , 7, 1310-21	11.9	352
292	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
291	Ammonia-oxidizing archaea: important players in paddy rhizosphere soil?. <i>Environmental Microbiology</i> , 2008 , 10, 1978-87	5.2	302
290	Review on iron availability in soil: interaction of Fe minerals, plants, and microbes. <i>Journal of Soils and Sediments</i> , 2014 , 14, 538-548	3.4	290
289	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
288	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
287	Current insights into the autotrophic thaumarchaeal ammonia oxidation in acidic soils. <i>Soil Biology and Biochemistry</i> , 2012 , 55, 146-154	7.5	219
286	Multiple elements of soil biodiversity drive ecosystem functions across biomes. <i>Nature Ecology and Evolution</i> , 2020 , 4, 210-220	12.3	160
285	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
284	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
283	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
282	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

281	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
280	Soil enzymatic activities and microbial community structure with different application rates of Cd and Pb. <i>Journal of Environmental Sciences</i> , 2007 , 19, 834-40	6.4	138
279	Differences in soil bacterial diversity: driven by contemporary disturbances or historical contingencies?. <i>ISME Journal</i> , 2008 , 2, 254-64	11.9	136
278	Transfer of antibiotic resistance from manure-amended soils to vegetable microbiomes. <i>Environment International</i> , 2019 , 130, 104912	12.9	133
277	Altitude ammonia-oxidizing bacteria and archaea in soils of Mount Everest. <i>FEMS Microbiology Ecology</i> , 2009 , 70, 52-61	4.3	132
276	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
275	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
274	A review of ammonia-oxidizing bacteria and archaea in Chinese soils. <i>Frontiers in Microbiology</i> , 2012 , 3, 296	5.7	124
273	Effects of organic acids on copper and cadmium desorption from contaminated soils. <i>Environment International</i> , 2003 , 29, 613-8	12.9	122
272	Protist communities are more sensitive to nitrogen fertilization than other microorganisms in diverse agricultural soils. <i>Microbiome</i> , 2019 , 7, 33	16.6	120
271	Comammox [®] newly discovered nitrification process in the terrestrial nitrogen cycle. <i>Journal of Soils and Sediments</i> , 2017 , 17, 2709-2717	3.4	118
270	Phylogenetic clustering increases with elevation for microbes. <i>Environmental Microbiology Reports</i> , 2012 , 4, 217-26	3.7	118
269	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
268	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
267	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
266	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
265	DETERMINATION OF THE POINT-OF-ZERO CHARGE OF MANGANESE OXIDES WITH DIFFERENT METHODS INCLUDING AN IMPROVED SALT TITRATION METHOD. <i>Soil Science</i> , 2008 , 173, 277-286	0.9	94
264	Particle size, charge and colloidal stability of humic acids coprecipitated with Ferrihydrite. <i>Chemosphere</i> , 2014 , 99, 239-47	8.4	93

263	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
262	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
261	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
260	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
259	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
258	Ammonia-Oxidizing Archaea Play a Predominant Role in Acid Soil Nitrification. <i>Advances in Agronomy</i> , 2014 , 261-302	7.7	80
257	Host selection shapes crop microbiome assembly and network complexity. <i>New Phytologist</i> , 2021 , 229, 1091-1104	9.8	80
256	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
255	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
254	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
253	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
252	Distribution and diversity of archaeal communities in selected Chinese soils. <i>FEMS Microbiology Ecology</i> , 2012 , 80, 146-58	4.3	69
251	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
250	Biogenic Mn oxides for effective adsorption of Cd from aquatic environment. <i>Environmental Pollution</i> , 2009 , 157, 2577-83	9.3	69
249	Characteristics of oxytetracycline sorption and potential bioavailability in soils with various physical-chemical properties. <i>Chemosphere</i> , 2012 , 87, 542-8	8.4	68
248	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
247	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
246	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

245	Consistent responses of soil microbial taxonomic and functional attributes to mercury pollution across China. <i>Microbiome</i> , 2018 , 6, 183	16.6	66
244	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
243	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
242	Heterogeneity of archaeal and bacterial ammonia-oxidizing communities in Lake Taihu, China. <i>Environmental Microbiology Reports</i> , 2010 , 2, 569-76	3.7	65
241	Kinetics of soil cadmium desorption under simulated acid rain. <i>Ecological Complexity</i> , 2009 , 6, 432-437	2.6	65
240	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
239	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
238	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
237	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
236	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
235	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
234	Analyses of soil fungal communities in adjacent natural forest and hoop pine plantation ecosystems of subtropical Australia using molecular approaches based on 18S rRNA genes. <i>FEMS Microbiology Letters</i> , 2005 , 247, 91-100	2.9	61
233	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
232	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> , 2017 , 107, 10-18	7.5	57
231	Unraveling Microbial Communities Associated with Methylmercury Production in Paddy Soils. <i>Environmental Science & Technology</i> , 2018 , 52, 13110-13118	10.3	57
230	Abundance and community structure of ammonia oxidizing bacteria and archaea in a Sweden boreal forest soil under 19-year fertilization and 12-year warming. <i>Journal of Soils and Sediments</i> , 2012 , 12, 1124-1133	3.4	56
229	A lysimeter study of nitrate leaching from grazed grassland as affected by a nitrification inhibitor, dicyandiamide, and relationships with ammonia oxidizing bacteria and archaea. <i>Soil Use and Management</i> , 2009 , 25, 454-461	3.1	56
228	COMPETITIVE ADSORPTION OF SULFATE AND OXALATE ON GOETHITE IN THE ABSENCE OR PRESENCE OF PHOSPHATE. <i>Soil Science</i> , 1999 , 164, 180-189	0.9	56

227	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
226	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
225	Molecular bacterial diversity of a forest soil under residue management regimes in subtropical Australia. <i>FEMS Microbiology Ecology</i> , 2006 , 55, 38-47	4.3	54
224	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
223	Patterns of bacterial diversity along a long-term mercury-contaminated gradient in the paddy soils. <i>Microbial Ecology</i> , 2014 , 68, 575-83	4.4	50
222	Bacterial Communities Inside and Surrounding Soil Iron-Manganese Nodules. <i>Geomicrobiology Journal</i> , 2008 , 25, 14-24	2.5	50
221	Pre-lysis washing improves DNA extraction from a forest soil. <i>Soil Biology and Biochemistry</i> , 2005 , 37, 2337-2341	7.5	50
220	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
219	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
218	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
217	Effects of regenerating vegetation on soil enzyme activity and microbial structure in reclaimed soils on a surface coal mine site. <i>Applied Soil Ecology</i> , 2015 , 87, 56-62	5	48
216	Soil bacterial taxonomic diversity is critical to maintaining the plant productivity. <i>Environment International</i> , 2020 , 140, 105766	12.9	47
215	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
214	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
213	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
212	The effect of nitrification inhibitors in reducing nitrification and the ammonia oxidizer population in three contrasting soils. <i>Journal of Soils and Sediments</i> , 2015 , 15, 1113-1118	3.4	41
211	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	10.2	40
210	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

209	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
208	Do water regimes affect iron-plaque formation and microbial communities in the rhizosphere of paddy rice?. <i>Journal of Plant Nutrition and Soil Science</i> , 2008 , 171, 193-199	2.3	40
207	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
206	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
205	Coupling of soil prokaryotic diversity and plant diversity across latitudinal forest ecosystems. <i>Scientific Reports</i> , 2016 , 6, 19561	4.9	39
204	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
203	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
202	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> , 2016 , 8, 1048-1057	3.7	38
201	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
200	Effects of super-absorbent polymers on a soil/wheat (<i>Triticum aestivum</i> L.) system in the field. <i>Applied Soil Ecology</i> , 2014 , 73, 58-63	5	37
199	Influence of rice straw amendment on mercury methylation and nitrification in paddy soils. <i>Environmental Pollution</i> , 2016 , 209, 53-9	9.3	36
198	Mercury in soils of three agricultural experimental stations with long-term fertilization in China. <i>Chemosphere</i> , 2008 , 72, 1274-8	8.4	36
197	Diversity of herbaceous plants and bacterial communities regulates soil resistome across forest biomes. <i>Environmental Microbiology</i> , 2018 , 20, 3186-3200	5.2	35
196	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
195	Biodegradation of pyrene and catabolic genes in contaminated soils cultivated with <i>Lolium multiflorum</i> L. <i>Journal of Soils and Sediments</i> , 2009 , 9, 482-491	3.4	35
194	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
193	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
192	Effect of 7-year application of a nitrification inhibitor, dicyandiamide (DCD), on soil microbial biomass, protease and deaminase activities, and the abundance of bacteria and archaea in pasture soils. <i>Journal of Soils and Sediments</i> , 2013 , 13, 753-759	3.4	34

191	Effect of Long-Term Application of Chemical Fertilizers on Microbial Biomass and Functional Diversity of a Black Soil . <i>Pedosphere</i> , 2008 , 18, 801-808	5	34
190	Change of bacterial communities in sediments along Songhua River in Northeastern China after a nitrobenzene pollution event. <i>FEMS Microbiology Ecology</i> , 2008 , 65, 494-503	4.3	34
189	Effects of nitrogen deposition rates and frequencies on the abundance of soil nitrogen-related functional genes in temperate grassland of northern China. <i>Journal of Soils and Sediments</i> , 2015 , 15, 694-704	3.1	33
188	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
187	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
186	Linkage between community diversity of sulfate-reducing microorganisms and methylmercury concentration in paddy soil. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 1339-48	5.1	32
185	Adsorbent materials for ammonium and ammonia removal: A review. <i>Journal of Cleaner Production</i> , 2021 , 283, 124611	10.3	32
184	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
183	Influence of temperature and moisture on the relative contributions of heterotrophic and autotrophic nitrification to gross nitrification in an acid cropping soil. <i>Journal of Soils and Sediments</i> , 2015 , 15, 2304-2309	3.4	31
182	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
181	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
180	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
179	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
178	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
177	Rare taxa maintain the stability of crop mycobiomes and ecosystem functions. <i>Environmental Microbiology</i> , 2021 , 23, 1907-1924	5.2	29
176	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
175	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
174	Antibiotic resistance in urban green spaces mirrors the pattern of industrial distribution. <i>Environment International</i> , 2019 , 132, 105106	12.9	28

173	The effect of soil pH and dicyandiamide (DCD) on N ₂ O emissions and ammonia oxidiser abundance in a stimulated grazed pasture soil. <i>Journal of Soils and Sediments</i> , 2014 , 14, 1434-1444	3.4	28
172	The spatial factor, rather than elevated CO ₂ controls the soil bacterial community in a temperate Forest Ecosystem. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 7429-36	4.8	28
171	Adsorption (AsIII,V) and oxidation (AsIII) of arsenic by pedogenic Fe/Mn nodules. <i>Geoderma</i> , 2006 , 136, 566-572	6.7	28
170	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
169	Long-term rice and green manure rotation alters the endophytic bacterial communities of the rice root. <i>Microbial Ecology</i> , 2013 , 66, 917-26	4.4	27
168	Functional assembly of bacterial communities with activity for the biodegradation of an organophosphorus pesticide in the rape phyllosphere. <i>FEMS Microbiology Letters</i> , 2010 , 306, 135-43	2.9	27
167	Microbial nitrous oxide emissions in dryland ecosystems: mechanisms, microbiome and mitigation. <i>Environmental Microbiology</i> , 2017 , 19, 4808-4828	5.2	26
166	¹⁵ N ₂ as a tracer of biological N ₂ fixation: A 75-year retrospective. <i>Soil Biology and Biochemistry</i> , 2017 , 106, 36-50	7.5	26
165	Fertilization changes soil microbiome functioning, especially phagotrophic protists. <i>Soil Biology and Biochemistry</i> , 2020 , 148, 107863	7.5	26
164	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
163	Large-scale patterns of soil antibiotic resistome in Chinese croplands. <i>Science of the Total Environment</i> , 2020 , 712, 136418	10.2	25
162	Fertilizer nitrogen use efficiency and fates in maize cropping systems across China: Field ¹⁵ N tracer studies. <i>Soil and Tillage Research</i> , 2020 , 197, 104498	6.5	25
161	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
160	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
159	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
158	Archaeal community structure along a gradient of petroleum contamination in saline-alkali soil. <i>Journal of Environmental Sciences</i> , 2011 , 23, 1858-64	6.4	23
157	Carbon/nitrogen ratio as a major factor for predicting the effects of organic wastes on soil bacterial communities assessed by DNA-based molecular techniques. <i>Environmental Science and Pollution Research</i> , 2010 , 17, 807-15	5.1	23
156	Nitrogen Addition Decreases Dissimilatory Nitrate Reduction to Ammonium in Rice Paddies. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	23

155	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
154	Temporal dynamics of fungal communities in soybean rhizosphere. <i>Journal of Soils and Sediments</i> , 2017 , 17, 491-498	3.4	22
153	Ecological drivers of biogeographic patterns of soil archaeal community. <i>PLoS ONE</i> , 2013 , 8, e63375	3.7	22
152	Microbes influence the fractionation of arsenic in paddy soils with different fertilization regimes. <i>Science of the Total Environment</i> , 2009 , 407, 2631-40	10.2	22
151	Microbial DNA extraction and analyses of soil iron-manganese nodules. <i>Soil Biology and Biochemistry</i> , 2008 , 40, 1364-1369	7.5	22
150	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
149	Responses of activities, abundances and community structures of soil denitrifiers to short-term mercury stress. <i>Journal of Environmental Sciences</i> , 2012 , 24, 369-75	6.4	21
148	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
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