Ji-Zheng He

List of Publications by Year
in descending order

305	21,601	10351 72	13338 130
papers	citations	h-index	g-index

314	314	314	14303
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantitative analyses of the abundance and composition of ammoniaâ€oxidizing bacteria and ammoniaâ€oxidizing archaea of a Chinese upland red soil under longâ€term fertilization practices. Environmental Microbiology, 2007, 9, 2364-2374.	1.8	877
2	Nitrification driven by bacteria and not archaea in nitrogen-rich grassland soils. Nature Geoscience, 2009, 2, 621-624.	5.4	735
3	Ammonia-oxidizing archaea have more important role than ammonia-oxidizing bacteria in ammonia oxidation of strongly acidic soils. ISME Journal, 2012, 6, 1032-1045.	4.4	614
4	Multiple elements of soil biodiversity drive ecosystem functions across biomes. Nature Ecology and Evolution, 2020, 4, 210-220.	3.4	543
5	Microbial regulation of terrestrial nitrous oxide formation: understanding the biological pathways for prediction of emission rates. FEMS Microbiology Reviews, 2015, 39, 729-749.	3.9	530
6	Phylogenetic beta diversity in bacterial assemblages across ecosystems: deterministic versus stochastic processes. ISME Journal, 2013, 7, 1310-1321.	4.4	515
7	Abundance and composition of ammoniaâ€oxidizing bacteria and ammoniaâ€oxidizing archaea communities of an alkaline sandy loam. Environmental Microbiology, 2008, 10, 1601-1611.	1.8	508
8	Review on iron availability in soil: interaction of Fe minerals, plants, and microbes. Journal of Soils and Sediments, 2014, 14, 538-548.	1.5	448
9	Ammonia-oxidizing bacteria and archaea grow under contrasting soil nitrogen conditions. FEMS Microbiology Ecology, 2010, 72, 386-394.	1.3	419
10	Host selection shapes crop microbiome assembly and network complexity. New Phytologist, 2021, 229, 1091-1104.	3.5	349
11	Ammoniaâ€oxidizing archaea: important players in paddy rhizosphere soil?. Environmental Microbiology, 2008, 10, 1978-1987.	1.8	340
12	Autotrophic ammonia oxidation by soil thaumarchaea. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17240-17245.	3.3	305
13	Effects of Cd and Pb on soil microbial community structure and activities. Environmental Science and Pollution Research, 2010, 17, 288-296.	2.7	304
14	Transfer of antibiotic resistance from manure-amended soils to vegetable microbiomes. Environment International, 2019, 130, 104912.	4.8	278
15	Protist communities are more sensitive to nitrogen fertilization than other microorganisms in diverse agricultural soils. Microbiome, 2019, 7, 33.	4.9	278
16	Current insights into the autotrophic thaumarchaeal ammonia oxidation in acidic soils. Soil Biology and Biochemistry, 2012, 55, 146-154.	4.2	268
17	Rare microbial taxa as the major drivers of ecosystem multifunctionality in long-term fertilized soils. Soil Biology and Biochemistry, 2020, 141, 107686.	4.2	247
18	Long-Term Nickel Contamination Increases the Occurrence of Antibiotic Resistance Genes in Agricultural Soils. Environmental Science & Technology, 2017, 51, 790-800.	4.6	240

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19	pH-dependent distribution of soil ammonia oxidizers across a large geographical scale as revealed by high-throughput pyrosequencing. Journal of Soils and Sediments, 2013, 13, 1439-1449.	1.5	219
20	Fieldâ€based evidence for copper contamination induced changes of antibiotic resistance in agricultural soils. Environmental Microbiology, 2016, 18, 3896-3909.	1.8	216
21	Comammoxâ€"a newly discovered nitrification process in the terrestrial nitrogen cycle. Journal of Soils and Sediments, 2017, 17, 2709-2717.	1.5	194
22	A review of ammonia-oxidizing bacteria and archaea in Chinese soils. Frontiers in Microbiology, 2012, 3, 296.	1.5	191
23	Aerobic composting reduces antibiotic resistance genes in cattle manure and the resistome dissemination in agricultural soils. Science of the Total Environment, 2018, 612, 1300-1310.	3.9	190
24	Differences in soil bacterial diversity: driven by contemporary disturbances or historical contingencies?. ISME Journal, 2008, 2, 254-264.	4.4	182
25	Long-term fertilization regimes affect bacterial community structure and diversity of an agricultural soil in northern China. Journal of Soils and Sediments, 2008, 8, 43-50.	1.5	177
26	Microbial composition and diversity of an upland red soil under long-term fertilization treatments as revealed by culture-dependent and culture-independent approaches. Journal of Soils and Sediments, 2008, 8, 349-358.	1.5	170
27	Altitudinal Distribution Patterns of Soil Bacterial and Archaeal Communities Along Mt. Shegyla on the Tibetan Plateau. Microbial Ecology, 2015, 69, 135-145.	1.4	166
28	Temporal succession of soil antibiotic resistance genes following application of swine, cattle and poultry manures spiked with or without antibiotics. Environmental Pollution, 2017, 231, 1621-1632.	3.7	166
29	Plant developmental stage drives the differentiation in ecological role of the maize microbiome. Microbiome, 2021, 9, 171.	4.9	164
30	Soil enzymatic activities and microbial community structure with different application rates of Cd and Pb. Journal of Environmental Sciences, 2007, 19, 834-840.	3.2	160
31	Impact of long-term fertilization practices on the abundance and composition of soil bacterial communities in Northeast China. Applied Soil Ecology, 2010, 46, 119-124.	2.1	158
32	Altitude ammonia-oxidizing bacteria and archaea in soils of Mount Everest. FEMS Microbiology Ecology, 2009, 70, 208-217.	1.3	155
33	Phylogenetic clustering increases with elevation for microbes. Environmental Microbiology Reports, 2012, 4, 217-226.	1.0	144
34	Comammox Nitrospira play an active role in nitrification of agricultural soils amended with nitrogen fertilizers. Soil Biology and Biochemistry, 2019, 138, 107609.	4.2	143
35	Multivariate geostatistical analysis of heavy metals in topsoils from Beijing, China. Journal of Soils and Sediments, 2008, 8, 51-58.	1.5	136
36	Effects of organic acids on copper and cadmium desorption from contaminated soils. Environment International, 2003, 29, 613-618.	4.8	135

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37	New insights into the role of microbial community composition in driving soil respiration rates. Soil Biology and Biochemistry, 2018, 118, 35-41.	4.2	134
38	Rare taxa maintain the stability of crop mycobiomes and ecosystem functions. Environmental Microbiology, 2021, 23, 1907-1924.	1.8	132
39	Niche separation of comammox Nitrospira and canonical ammonia oxidizers in an acidic subtropical forest soil under long-term nitrogen deposition. Soil Biology and Biochemistry, 2018, 126, 114-122.	4.2	129
40	Adsorbent materials for ammonium and ammonia removal: A review. Journal of Cleaner Production, 2021, 283, 124611.	4.6	129
41	DETERMINATION OF THE POINT-OF-ZERO CHARGE OF MANGANESE OXIDES WITH DIFFERENT METHODS INCLUDING AN IMPROVED SALT TITRATION METHOD. Soil Science, 2008, 173, 277-286.	0.9	123
42	Nitrous oxide emissions from grazed grassland as affected by a nitrification inhibitor, dicyandiamide, and relationships with ammonia-oxidizing bacteria and archaea. Journal of Soils and Sediments, 2010, 10, 943-954.	1.5	122
43	Analysis of the Microbial Community Structure by Monitoring an Hg Methylation Gene (hgcA) in Paddy Soils along an Hg Gradient. Applied and Environmental Microbiology, 2014, 80, 2874-2879.	1.4	119
44	Particle size, charge and colloidal stability of humic acids coprecipitated with Ferrihydrite. Chemosphere, 2014, 99, 239-247.	4.2	119
45	Contrasting patterns and drivers of soil bacterial and fungal diversity across a mountain gradient. Environmental Microbiology, 2020, 22, 3287-3301.	1.8	119
46	Soil bacterial taxonomic diversity is critical to maintaining the plant productivity. Environment International, 2020, 140, 105766.	4.8	114
47	Soil pH determines the alpha diversity but not beta diversity of soil fungal community along altitude in a typical Tibetan forest ecosystem. Journal of Soils and Sediments, 2015, 15, 1224-1232.	1.5	112
48	Water addition regulates the metabolic activity of ammonia oxidizers responding to environmental perturbations in dry subhumid ecosystems. Environmental Microbiology, 2015, 17, 444-461.	1.8	111
49	Ammonia-Oxidizing Archaea Play a Predominant Role in Acid Soil Nitrification. Advances in Agronomy, 2014, , 261-302.	2.4	109
50	Consistent responses of soil microbial taxonomic and functional attributes to mercury pollution across China. Microbiome, 2018, 6, 183.	4.9	109
51	Temporal changes of antibiotic-resistance genes and bacterial communities in two contrasting soils treated with cattle manure. FEMS Microbiology Ecology, 2016, 92, fiv169.	1.3	108
52	Unraveling Microbial Communities Associated with Methylmercury Production in Paddy Soils. Environmental Science & Technology, 2018, 52, 13110-13118.	4.6	106
53	Abundance and community structure of ammonia-oxidizing archaea and bacteria in an acid paddy soil. Biology and Fertility of Soils, 2011, 47, 323-331.	2.3	102
54	Nitrogen loading levels affect abundance and composition of soil ammonia oxidizing prokaryotes in semiarid temperate grassland. Journal of Soils and Sediments, 2011, 11, 1243-1252.	1.5	100

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55	Characteristics of oxytetracycline sorption and potential bioavailability in soils with various physicalâ€“chemical properties. Chemosphere, 2012, 87, 542-548.	4.2	98
56	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. Soil Biology and Biochemistry, 2017, 107, 10-18.	4.2	95
57	Putative ammoniaâ€oxidizing bacteria and archaea in an acidic red soil with different land utilization patterns. Environmental Microbiology Reports, 2010, 2, 304-312.	1.0	92
58	Contrasting Euryarchaeota communities between upland and paddy soils exhibited similar pH-impacted biogeographic patterns. Soil Biology and Biochemistry, 2013, 64, 18-27.	4.2	92
59	Effects of climate warming and elevated CO 2 on autotrophic nitrification and nitrifiers in dryland ecosystems. Soil Biology and Biochemistry, 2016, 92, 1-15.	4.2	92
60	Distribution and diversity of archaeal communities in selected Chinese soils. FEMS Microbiology Ecology, 2012, 80, 146-158.	1.3	91
61	Abundance and community composition of methanotrophs in a Chinese paddy soil under long-term fertilization practices. Journal of Soils and Sediments, 2008, 8, 406-414.	1.5	90
62	Effects of the Nitrification Inhibitor 3,4-Dimethylpyrazole Phosphate on Nitrification and Nitrifiers in Two Contrasting Agricultural Soils. Applied and Environmental Microbiology, 2016, 82, 5236-5248.	1.4	90
63	Trends and challenges in soil research 2009: linking global climate change to local long-term forest productivity. Journal of Soils and Sediments, 2009, 9, 83-88.	1.5	86
64	Effects of nitrogen application rate and a nitrification inhibitor dicyandiamide on ammonia oxidizers and N2O emissions in a grazed pasture soil. Science of the Total Environment, 2013, 465, 125-135.	3.9	83
65	Global homogenization of the structure and function in the soil microbiome of urban greenspaces. Science Advances, 2021, 7, .	4.7	83
66	Soil type determines the abundance and community structure of ammonia-oxidizing bacteria and archaea in flooded paddy soils. Journal of Soils and Sediments, 2010, 10, 1510-1516.	1.5	82
67	Activity, abundance and community structure of anammox bacteria along depth profiles in three different paddy soils. Soil Biology and Biochemistry, 2015, 91, 212-221.	4.2	82
68	Biogenic Mn oxides for effective adsorption of Cd from aquatic environment. Environmental Pollution, 2009, 157, 2577-2583.	3.7	81
69	Kinetics of soil cadmium desorption under simulated acid rain. Ecological Complexity, 2009, 6, 432-437.	1.4	81
70	Abundance and community structure of ammonia-oxidizing bacteria and archaea in a temperate forest ecosystem under ten-years elevated CO2. Soil Biology and Biochemistry, 2012, 46, 163-171.	4.2	81
71	Microbial communities in crop phyllosphere and root endosphere are more resistant than soil microbiota to fertilization. Soil Biology and Biochemistry, 2021, 153, 108113.	4.2	81
72	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. Science of the Total Environment, 2019, 668, 224-233.	3.9	79

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73	Effects of Cellular Sorption on Mercury Bioavailability and Methylmercury Production by Desulfovibrio desulfuricans ND132. Environmental Science & Technology, 2016, 50, 13335-13341.	4.6	78
74	Impacts of reclaimed water irrigation on soil antibiotic resistome in urban parks of Victoria, Australia. Environmental Pollution, 2016, 211, 48-57.	3.7	78
75	Identity of biocrust species and microbial communities drive the response of soil multifunctionality to simulated global change. Soil Biology and Biochemistry, 2017, 107, 208-217.	4.2	78
76	Fertilization changes soil microbiome functioning, especially phagotrophic protists. Soil Biology and Biochemistry, 2020, 148, 107863.	4.2	78
77	Heterogeneity of archaeal and bacterial ammoniaâ€oxidizing communities in Lake Taihu, China. Environmental Microbiology Reports, 2010, 2, 569-576.	1.0	77
78	Arsenic and cadmium as predominant factors shaping the distribution patterns of antibiotic resistance genes in polluted paddy soils. Journal of Hazardous Materials, 2020, 389, 121838.	6.5	77
79	Microbial Community and Functional Structure Significantly Varied among Distinct Types of Paddy Soils But Responded Differently along Gradients of Soil Depth Layers. Frontiers in Microbiology, 2017, 8, 945.	1.5	76
80	Nitrifierâ€induced denitrification is an important source of soil nitrous oxide and can be inhibited by a nitrification inhibitor 3,4â€dimethylpyrazole phosphate. Environmental Microbiology, 2017, 19, 4851-4865.	1.8	75
81	Abundance and community structure of sulfate reducing prokaryotes in a paddy soil of southern China under different fertilization regimes. Soil Biology and Biochemistry, 2009, 41, 687-694.	4.2	74
82	Patterns of Bacterial Diversity Along a Long-Term Mercury-Contaminated Gradient in the Paddy Soils. Microbial Ecology, 2014, 68, 575-583.	1.4	72
83	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. FEMS Microbiology Letters, 2005, 247, 91-100.	0.7	70
84	Response of denitrification genes nirS, nirK, and nosZ to irrigation water quality in a Chinese agricultural soil. Environmental Science and Pollution Research, 2011, 18, 1644-1652.	2.7	70
85	The large-scale distribution of ammonia oxidizers in paddy soils is driven by soil pH, geographic distance, and climatic factors. Frontiers in Microbiology, 2015, 6, 938.	1.5	70
86	Effects of regenerating vegetation on soil enzyme activity and microbial structure in reclaimed soils on a surface coal mine site. Applied Soil Ecology, 2015, 87, 56-62.	2.1	70
87	Palaeoclimate explains a unique proportion of the global variation in soil bacterial communities. Nature Ecology and Evolution, 2017, 1, 1339-1347.	3.4	70
88	The effect of temperature and moisture on the source of N2O and contributions from ammonia oxidizers in an agricultural soil. Biology and Fertility of Soils, 2017, 53, 141-152.	2.3	69
89	Molecular bacterial diversity of a forest soil under residue management regimes in subtropical Australia. FEMS Microbiology Ecology, 2006, 55, 38-47.	1.3	66
90	A lysimeter study of nitrate leaching from grazed grassland as affected by a nitrification inhibitor, dicyandiamide, and relationships with ammonia oxidizing bacteria and archaea. Soil Use and Management, 2009, 25, 454-461.	2.6	66

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91	Abundance and community structure of ammonia oxidizing bacteria and archaea in a Sweden boreal forest soil under 19-year fertilization and 12-year warming. Journal of Soils and Sediments, 2012, 12, 1124-1133.	1.5	66
92	Plant community, geographic distance and abiotic factors play different roles in predicting AMF biogeography at the regional scale in northern China. Environmental Microbiology Reports, 2016, 8, 1048-1057.	1.0	66
93	Pre-lysis washing improves DNA extraction from a forest soil. Soil Biology and Biochemistry, 2005, 37, 2337-2341.	4.2	65
94	Nitrogen fertiliser-induced changes in N2O emissions are attributed more to ammonia-oxidising bacteria rather than archaea as revealed using 1-octyne and acetylene inhibitors in two arable soils. Biology and Fertility of Soils, 2016, 52, 1163-1171.	2.3	65
95	COMPETITIVE ADSORPTION OF SULFATE AND OXALATE ON GOETHITE IN THE ABSENCE OR PRESENCE OF PHOSPHATE. Soil Science, 1999, 164, 180-189.	0.9	65
96	Dissimilatory nitrate reduction to ammonium dominates nitrate reduction in long-term low nitrogen fertilized rice paddies. Soil Biology and Biochemistry, 2019, 131, 149-156.	4.2	64
97	Microbial regulation of natural antibiotic resistance: Understanding the protist-bacteria interactions for evolution of soil resistome. Science of the Total Environment, 2020, 705, 135882.	3.9	63
98	Effects of mercury on the activity and community composition of soil ammonia oxidizers. Environmental Science and Pollution Research, 2010, 17, 1237-1244.	2.7	62
99	Effects of super-absorbent polymers on a soilâ€“wheat (Triticum aestivum L.) system in the field. Applied Soil Ecology, 2014, 73, 58-63.	2.1	62
100	Nitrification Is a Primary Driver of Nitrous Oxide Production in Laboratory Microcosms from Different Land-Use Soils. Frontiers in Microbiology, 2016, 7, 1373.	1.5	62
101	Diversity and potential biogeochemical impacts of viruses in bulk and rhizosphere soils. Environmental Microbiology, 2021, 23, 588-599.	1.8	62
102	Responses of soil nitrous oxide production and abundances and composition of associated microbial communities to nitrogen and water amendment. Biology and Fertility of Soils, 2017, 53, 601-611.	2.3	61
103	Deterministic selection dominates microbial community assembly in termite mounds. Soil Biology and Biochemistry, 2021, 152, 108073.	4.2	60
104	Bacterial Communities Inside and Surrounding Soil Iron-Manganese Nodules. Geomicrobiology Journal, 2008, 25, 14-24.	1.0	59
105	Niche differentiation of clade A comammox Nitrospira and canonical ammonia oxidizers in selected forest soils. Soil Biology and Biochemistry, 2020, 149, 107925.	4.2	59
106	Effects of 3,4-dimethylpyrazole phosphate (DMPP) on nitrification and the abundance and community composition of soil ammonia oxidizers in three land uses. Biology and Fertility of Soils, 2016, 52, 927-939.	2.3	56
107	Influence of rice straw amendment on mercury methylation and nitrification in paddy soils. Environmental Pollution, 2016, 209, 53-59.	3.7	56
108	Fertilizer nitrogen use efficiency and fates in maize cropping systems across China: Field 15N tracer studies. Soil and Tillage Research, 2020, 197, 104498.	2.6	56

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109	Microbial functional attributes, rather than taxonomic attributes, drive top soil respiration, nitrification and denitrification processes. Science of the Total Environment, 2020, 734, 139479.	3.9	56
110	Diversity of herbaceous plants and bacterial communities regulates soil resistome across forest biomes. Environmental Microbiology, 2018, 20, 3186-3200.	1.8	55
111	Carbon limitation overrides acidification in mediating soil microbial activity to nitrogen enrichment in a temperate grassland. Global Change Biology, 2021, 27, 5976-5988.	4.2	55
112	Linking soil bacterial diversity to ecosystem multifunctionality using backward-elimination boosted trees analysis. Journal of Soils and Sediments, 2009, 9, 547-554.	1.5	54
113	Multiple factors drive the abundance and diversity of the diazotrophic community in typical farmland soils of China. FEMS Microbiology Ecology, 2019, 95, .	1.3	54
114	Salinity as a predominant factor modulating the distribution patterns of antibiotic resistance genes in ocean and river beach soils. Science of the Total Environment, 2019, 668, 193-203.	3.9	54
115	Manure application increases microbiome complexity in soil aggregate fractions: Results of an 18-year field experiment. Agriculture, Ecosystems and Environment, 2021, 307, 107249.	2.5	54
116	The effect of nitrification inhibitors in reducing nitrification and the ammonia oxidizer population in three contrasting soils. Journal of Soils and Sediments, 2015, 15, 1113-1118.	1.5	53
117	Large-scale patterns of soil antibiotic resistome in Chinese croplands. Science of the Total Environment, 2020, 712, 136418.	3.9	53
118	Fertilization alters protistan consumers and parasites in cropâ€associated microbiomes. Environmental Microbiology, 2021, 23, 2169-2183.	1.8	52
119	Ensuring planetary survival: the centrality of organic carbon in balancing the multifunctional nature of soils. Critical Reviews in Environmental Science and Technology, 2022, 52, 4308-4324.	6.6	52
120	Oxytetracycline and Ciprofloxacin Exposure Altered the Composition of Protistan Consumers in an Agricultural Soil. Environmental Science & Technology, 2020, 54, 9556-9563.	4.6	51
121	Potential of indigenous crop microbiomes for sustainable agriculture. Nature Food, 2021, 2, 233-240.	6.2	51
122	Do water regimes affect ironâ€plaque formation and microbial communities in the rhizosphere of paddy rice?. Journal of Plant Nutrition and Soil Science, 2008, 171, 193-199.	1.1	50
123	Coupling of soil prokaryotic diversity and plant diversity across latitudinal forest ecosystems. Scientific Reports, 2016, 6, 19561.	1.6	50
124	Frontiers in the microbial processes of ammonia oxidation in soils and sediments. Journal of Soils and Sediments, 2014, 14, 1023-1029.	1.5	49
125	Immediate effects of nitrogen, phosphorus, and potassium amendments on the methanotrophic activity and abundance in a Chinese paddy soil under short-term incubation experiment. Journal of Soils and Sediments, 2013, 13, 189-196.	1.5	48
126	Effects of nitrogen deposition rates and frequencies on the abundance of soil nitrogen-related functional genes in temperate grassland of northern China. Journal of Soils and Sediments, 2015, 15, 694-704.	1.5	48

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127	Field-based evidence for consistent responses of bacterial communities to copper contamination in two contrasting agricultural soils. Frontiers in Microbiology, 2015, 6, 31.	1.5	47
128	The influence of soil age on ecosystem structure and function across biomes. Nature Communications, 2020, 11, 4721.	5.8	47
129	Succession of plant and soil microbial communities with restoration of abandoned land in the Loess Plateau, China. Journal of Soils and Sediments, 2013, 13, 760-769.	1.5	46
130	Differentiated Mechanisms of Biochar Mitigating Straw-Induced Greenhouse Gas Emissions in Two Contrasting Paddy Soils. Frontiers in Microbiology, 2018, 9, 2566.	1.5	46
131	Niche differentiation of comammox Nitrospira and canonical ammonia oxidizers in soil aggregate fractions following 27-year fertilizations. Agriculture, Ecosystems and Environment, 2020, 304, 107147.	2.5	46
132	Linkage between community diversity of sulfate-reducing microorganisms and methylmercury concentration in paddy soil. Environmental Science and Pollution Research, 2014, 21, 1339-1348.	2.7	45
133	Initial Copper Stress Strengthens the Resistance of Soil Microorganisms to a Subsequent Copper Stress. Microbial Ecology, 2014, 67, 931-941.	1.4	44
134	Influence of temperature and moisture on the relative contributions of heterotrophic and autotrophic nitrification to gross nitrification in an acid cropping soil. Journal of Soils and Sediments, 2015, 15, 2304-2309.	1.5	44
135	Effects of different agricultural wastes on the dissipation of PAHs and the PAH-degrading genes in a PAH-contaminated soil. Chemosphere, 2017, 172, 286-293.	4.2	44
136	Time-dependent shifts in populations and activity of bacterial and archaeal ammonia oxidizers in response to liming in acidic soils. Soil Biology and Biochemistry, 2017, 112, 77-89.	4.2	44
137	Mercury in soils of three agricultural experimental stations with long-term fertilization in China. Chemosphere, 2008, 72, 1274-1278.	4.2	43
138	Effect of Long-Term Application of Chemical Fertilizers on Microbial Biomass and Functional Diversity of a Black Soil. Pedosphere, 2008, 18, 801-808.	2.1	42
139	Antibiotic resistance in urban green spaces mirrors the pattern of industrial distribution. Environment International, 2019, 132, 105106.	4.8	42
140	Change of bacterial communities in sediments along Songhua River in Northeastern China after a nitrobenzene pollution event. FEMS Microbiology Ecology, 2008, 65, 494-503.	1.3	41
141	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. Journal of Soils and Sediments, 2013, 13, 753-759.	1.5	41
142	Biodegradation of pyrene and catabolic genes in contaminated soils cultivated with Lolium multiflorum L. Journal of Soils and Sediments, 2009, 9, 482-491.	1.5	40
143	The effect of soil pH and dicyandiamide (DCD) on N2O emissions and ammonia oxidiser abundance in a stimulated grazed pasture soil. Journal of Soils and Sediments, 2014, 14, 1434-1444.	1.5	40
144	Species identity of biocrust-forming lichens drives the response of soil nitrogen cycle to altered precipitation frequency and nitrogen amendment. Soil Biology and Biochemistry, 2016, 96, 128-136.	4.2	40

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145	Microbial nitrous oxide emissions in dryland ecosystems: mechanisms, microbiome and mitigation. Environmental Microbiology, 2017, 19, 4808-4828.	1.8	40
146	Sorption mechanism and distribution of cadmium by different microbial species. Journal of Environmental Management, 2019, 237, 552-559.	3.8	40
147	Ecological Drivers of Biogeographic Patterns of Soil Archaeal Community. PLoS ONE, 2013, 8, e63375.	1.1	39
148	Response of ammonia oxidizing microbes to the stresses of arsenic and copper in two acidic alfisols. Applied Soil Ecology, 2014, 77, 59-67.	2.1	39
149	Nitrogen Addition Decreases Dissimilatory Nitrate Reduction to Ammonium in Rice Paddies. Applied and Environmental Microbiology, 2018, 84, .	1.4	39
150	Distributions and environmental drivers of archaea and bacteria in paddy soils. Journal of Soils and Sediments, 2019, 19, 23-37.	1.5	39
151	Growth of comammox Nitrospira is inhibited by nitrification inhibitors in agricultural soils. Journal of Soils and Sediments, 2020, 20, 621-628.	1.5	38
152	Adsorption (AsIII,V) and oxidation (AsIII) of arsenic by pedogenic Feâ€“Mn nodules. Geoderma, 2006, 136, 566-572.	2.3	36
153	Quantitative analyses of the abundance and composition of ammoniaâ€oxidizing bacteria and ammoniaâ€oxidizing archaea of a Chinese upland red soil under longâ€term fertilization practices. Environmental Microbiology, 2007, 9, 3152-3152.	1.8	36
154	Response of bacterial pdo1, nah, and C12O genes to aged soil PAH pollution in a coke factory area. Environmental Science and Pollution Research, 2014, 21, 9754-9763.	2.7	36
155	Response of ammonia oxidizers and denitrifiers to repeated applications of a nitrification inhibitor and a urease inhibitor in two pasture soils. Journal of Soils and Sediments, 2017, 17, 974-984.	1.5	36
156	15N2 as a tracer of biological N2 fixation: A 75-year retrospective. Soil Biology and Biochemistry, 2017, 106, 36-50.	4.2	36
157	Rare earth oxide nanoparticles promote soil microbial antibiotic resistance by selectively enriching antibiotic resistance genes. Environmental Science: Nano, 2019, 6, 456-466.	2.2	36
158	Enhanced nitrogen retention by lignite during poultry litter composting. Journal of Cleaner Production, 2020, 277, 122422.	4.6	36
159	Effects of super absorbent polymers on soil microbial properties and Chinese cabbage (Brassica) Tj ETQq1 1 0.784314 rgBT /Overlock	1.5	34
160	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. Earth's Future, 2021, 9, e2020EF001514.	2.4	34
161	Distinct factors drive the diversity and composition of protistan consumers and phototrophs in natural soil ecosystems. Soil Biology and Biochemistry, 2021, 160, 108317.	4.2	34
162	Niche specialization of comammox Nitrospira in terrestrial ecosystems: Oligotrophic or copiotrophic?. Critical Reviews in Environmental Science and Technology, 2023, 53, 161-176.	6.6	34

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163	The Spatial Factor, Rather than Elevated CO ₂ , Controls the Soil Bacterial Community in a Temperate Forest Ecosystem. Applied and Environmental Microbiology, 2010, 76, 7429-7436.	1.4	33
164	Long-Term Rice and Green Manure Rotation Alters the Endophytic Bacterial Communities of the Rice Root. Microbial Ecology, 2013, 66, 917-926.	1.4	33
165	Temporal dynamics of fungal communities in soybean rhizosphere. Journal of Soils and Sediments, 2017, 17, 491-498.	1.5	33
166	Functional assembly of bacterial communities with activity for the biodegradation of an organophosphorus pesticide in the rape phyllosphere. FEMS Microbiology Letters, 2010, 306, 135-143.	0.7	32
167	Climatic factors have unexpectedly strong impacts on soil bacterial Î²-diversity in 12 forest ecosystems. Soil Biology and Biochemistry, 2020, 142, 107699.	4.2	32
168	Modification of naturally abundant resources for remediation of potentially toxic elements: A review. Journal of Hazardous Materials, 2022, 421, 126755.	6.5	32
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170	Soil aggregate size and long-term fertilization effects on the function and community of ammonia oxidizers. Geoderma, 2019, 338, 107-117.	2.3	31
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