Jianming Xu

List of Publications by Year in descending order

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299 papers	18,106 citations	16451 64 h-index	20961 115 g-index
313 all docs	313 docs citations	313 times ranked	13921 citing authors

#	Article	IF	Citations
1	Geographic patterns of co-occurrence network topological features for soil microbiota at continental scale in eastern China. ISME Journal, 2016, 10, 1891-1901.	9.8	758
2	Human health risk assessment of heavy metals in soilâ€"vegetable system: A multi-medium analysis. Science of the Total Environment, 2013, 463-464, 530-540.	8.0	634
3	Longâ€term nitrogen fertilization decreases bacterial diversity and favors the growth of Actinobacteria and Proteobacteria in agroâ€ecosystems across the globe. Global Change Biology, 2018, 24, 3452-3461.	9.5	436
4	Zeolite-supported nanoscale zero-valent iron: New findings on simultaneous adsorption of Cd(II), Pb(II), and As(III) in aqueous solution and soil. Journal of Hazardous Materials, 2018, 344, 1-11.	12.4	430
5	Remediation of heavy metal contaminated soils by biochar: Mechanisms, potential risks and applications in China. Environmental Pollution, 2019, 252, 846-855.	7.5	418
6	Heavy metal contaminations in a soilâ€"rice system: Identification of spatial dependence in relation to soil properties of paddy fields. Journal of Hazardous Materials, 2010, 181, 778-787.	12.4	345
7	Potential role of biochars in decreasing soil acidification - A critical review. Science of the Total Environment, 2017, 581-582, 601-611.	8.0	343
8	Microplastics in the soil environment: Occurrence, risks, interactions and fate â€" A review. Critical Reviews in Environmental Science and Technology, 2020, 50, 2175-2222.	12.8	324
9	Microplastics play a minor role in tetracycline sorption in the presence of dissolved organic matter. Environmental Pollution, 2018, 240, 87-94.	7.5	299
10	Long-term nutrient inputs shift soil microbial functional profiles of phosphorus cycling in diverse agroecosystems. ISME Journal, 2020, 14, 757-770.	9.8	280
11	Identification of trace element sources and associated risk assessment in vegetable soils of the urbanâ€"rural transitional area of Hangzhou, China. Environmental Pollution, 2008, 151, 67-78.	7.5	250
12	Earth microbial co-occurrence network reveals interconnection pattern across microbiomes. Microbiome, 2020, 8, 82.	11.1	239
13	Effects of long-term manure applications on the occurrence of antibiotics and antibiotic resistance genes (ARGs) in paddy soils: Evidence from four field experiments in south of China. Soil Biology and Biochemistry, 2015, 90, 179-187.	8.8	232
14	Remediation of As(III) and Cd(II) co-contamination and its mechanism in aqueous systems by a novel calcium-based magnetic biochar. Journal of Hazardous Materials, 2018, 348, 10-19.	12.4	223
15	Characterizing the risk assessment of heavy metals and sampling uncertainty analysis in paddy field by geostatistics and GIS. Environmental Pollution, 2006, 141, 257-264.	7.5	211
16	Novel insight into adsorption and co-adsorption of heavy metal ions and an organic pollutant by magnetic graphene nanomaterials in water. Chemical Engineering Journal, 2019, 358, 1399-1409.	12.7	205
17	Status assessment and probabilistic health risk modeling of metals accumulation in agriculture soils across China: A synthesis. Environment International, 2019, 128, 165-174.	10.0	201
18	The sorption kinetics and isotherms of sulfamethoxazole with polyethylene microplastics. Marine Pollution Bulletin, 2018, 131, 191-196.	5.0	199

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19	Changes in heavy metal bioavailability and speciation from a Pb-Zn mining soil amended with biochars from co-pyrolysis of rice straw and swine manure. Science of the Total Environment, 2018, 633, 300-307.	8.0	198
20	Abating ammonia is more cost-effective than nitrogen oxides for mitigating PM _{2.5} air pollution. Science, 2021, 374, 758-762.	12.6	191
21	Increased occurrence of heavy metals, antibiotics and resistance genes in surface soil after long-term application of manure. Science of the Total Environment, 2018, 635, 995-1003.	8.0	167
22	Elevated temperature shifts soil N cycling from microbial immobilization to enhanced mineralization, nitrification and denitrification across global terrestrial ecosystems. Global Change Biology, 2020, 26, 5267-5276.	9.5	166
23	Chemical and biological immobilization mechanisms of potentially toxic elements in biochar-amended soils. Critical Reviews in Environmental Science and Technology, 2020, 50, 903-978.	12.8	157
24	A novel calcium-based magnetic biochar is effective in stabilization of arsenic and cadmium co-contamination in aerobic soils. Journal of Hazardous Materials, 2020, 387, 122010.	12.4	153
25	Urbanization can benefit agricultural production with large-scale farming in China. Nature Food, 2021, 2, 183-191.	14.0	152
26	The identification of â€˜hotspotsâ€™ of heavy metal pollution in soilâ€“rice systems at a regional scale in eastern China. Science of the Total Environment, 2014, 472, 407-420.	8.0	148
27	Simultaneous adsorption of Cd(II) and As(III) by a novel biochar-supported nanoscale zero-valent iron in aqueous systems. Science of the Total Environment, 2020, 708, 134823.	8.0	147
28	Adsorption characteristics of Cu(II) from aqueous solution onto biochar derived from swine manure. Environmental Science and Pollution Research, 2014, 21, 7035-7046.	5.3	144
29	Studies on the phosphorus sorption capacity of substrates used in constructed wetland systems. Chemosphere, 2006, 63, 344-352.	8.2	142
30	Substrate utilization pattern, biomass and activity of microbial communities in a sequence of heavy metal-polluted paddy soils. Geoderma, 2003, 115, 139-148.	5.1	137
31	Heavy metal sources identification and sampling uncertainty analysis in a field-scale vegetable soil of Hangzhou, China. Environmental Pollution, 2009, 157, 1003-1010.	7.5	136
32	Effects of Cd, Cu, Zn and their combined action on microbial biomass and bacterial community structure. Environmental Pollution, 2018, 243, 510-518.	7.5	133
33	Effects of nitrogen fertilization on the acidity and salinity of greenhouse soils. Environmental Science and Pollution Research, 2015, 22, 2976-2986.	5.3	129
34	Physicochemical properties of biochar produced from aerobically composted swine manure and its potential use as an environmental amendment. Bioresource Technology, 2013, 142, 641-646.	9.6	128
35	Changes in microbial community structure due to biochars generated from different feedstocks and their relationships with soil chemical properties. Geoderma, 2014, 226-227, 270-278.	5.1	121
36	Distinct Biogeographic Patterns for Archaea, Bacteria, and Fungi along the Vegetation Gradient at the Continental Scale in Eastern China. MSystems, 2017, 2, .	3.8	116

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37	Mechanisms for the removal of Cd(II) and Cu(II) from aqueous solution and mine water by biochars derived from agricultural wastes. Chemosphere, 2020, 254, 126745.	8.2	115
38	Association of biochar properties with changes in soil bacterial, fungal and fauna communities and nutrient cycling processes. Biochar, 2021, 3, 239-254.	12.6	112
39	An integrated analysis on source-exposure risk of heavy metals in agricultural soils near intense electronic waste recycling activities. Environment International, 2019, 133, 105239.	10.0	111
40	Changes in the soil microbial community structure with latitude in eastern China, based on phospholipid fatty acid analysis. Applied Soil Ecology, 2009, 43, 234-240.	4.3	110
41	Effects of different soil weights, storage times and extraction methods on soil phospholipid fatty acid analyses. Geoderma, 2009, 150, 171-178.	5.1	108
42	Priming effects in biochar enriched soils using a three-source-partitioning approach: 14C labelling and 13C natural abundance. Soil Biology and Biochemistry, 2017, 106, 28-35.	8.8	106
43	Spatial distribution of heavy metals in soils: a case study of Changxing, China. Environmental Geology, 2007, 52, 1-10.	1.2	104
44	Effects of inorganic and organic amendments on the uptake of lead and trace elements by Brassica chinensis grown in an acidic red soil. Chemosphere, 2015, 119, 177-183.	8.2	103
45	Contrasting effects of composting and pyrolysis on bioavailability and speciation of Cu and Zn in pig manure. Chemosphere, 2017, 180, 93-99.	8.2	103
46	The potential feasibility for soil improvement, based on the properties of biochars pyrolyzed from different feedstocks. Journal of Soils and Sediments, 2013, 13, 989-1000.	3.0	101
47	Ten-year regional monitoring of soil-rice grain contamination by heavy metals with implications for target remediation and food safety. Environmental Pollution, 2019, 244, 431-439.	7.5	100
48	High temperatures inhibited the growth of soil bacteria and archaea but not that of fungi and altered nitrous oxide production mechanisms from different nitrogen sources in an acidic soil. Soil Biology and Biochemistry, 2017, 107, 168-179.	8.8	95
49	Application of 16S rDNA-PCR amplification and DGGE fingerprinting for detection of shift in microbial community diversity in Cu-, Zn-, and Cd-contaminated paddy soils. Chemosphere, 2006, 62, 1374-1380.	8.2	93
50	Consolidation of agricultural land can contribute to agricultural sustainability in China. Nature Food, 2021, 2, 1014-1022.	14.0	92
51	Effects of nitrogen fertilizer on the acidification of two typical acid soils in South China. Journal of Soils and Sediments, 2014, 14, 415-422.	3.0	90
52	Adsorption and desorption of phenanthrene by magnetic graphene nanomaterials from water: Roles of pH, heavy metal ions and natural organic matter. Chemical Engineering Journal, 2019, 368, 390-399.	12.7	90
53	Chemical speciation and risk assessment of Cu and Zn in biochars derived from co-pyrolysis of pig manure with rice straw. Chemosphere, 2018, 200, 344-350.	8.2	89
54	The effects of combinations of biochar, lime, and organic fertilizer on nitrification and nitrifiers. Biology and Fertility of Soils, 2017, 53, 77-87.	4.3	88

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55	Facilitation of pentachlorophenol degradation in the rhizosphere of ryegrass (Lolium perenne L.). Soil Biology and Biochemistry, 2005, 37, 2017-2024.	8.8	87
56	Profiling of microbial PLFAs: Implications for interspecific interactions due to intercropping whichÂincrease phosphorus uptake in phosphorus limited acidic soils. Soil Biology and Biochemistry, 2013, 57, 625-634.	8.8	86
57	Performance and mechanisms for remediation of Cd(II) and As(III) co-contamination by magnetic biochar-microbe biochemical composite: Competition and synergy effects. Science of the Total Environment, 2021, 750, 141672.	8.0	83
58	Contrasting effects of alkaline amendments on the bioavailability and uptake of Cd in rice plants in a Cd-contaminated acid paddy soil. Environmental Science and Pollution Research, 2018, 25, 8827-8835.	5.3	82
59	Combined application of biochar and nitrogen fertilizer benefits nitrogen retention in the rhizosphere of soybean by increasing microbial biomass but not altering microbial community structure. Science of the Total Environment, 2018, 640-641, 1221-1230.	8.0	81
60	Enhanced abiotic and biotic contributions to dechlorination of pentachlorophenol during Fe(III) reduction by an iron-reducing bacterium Clostridium beijerinckii Z. Science of the Total Environment, 2014, 473-474, 215-223.	8.0	78
61	Simultaneous immobilization of the cadmium, lead and arsenic in paddy soils amended with titanium gypsum. Environmental Pollution, 2020, 258, 113790.	7.5	76
62	Impact of organic matter addition on pH change of paddy soils. Journal of Soils and Sediments, 2013, 13, 12-23.	3.0	74
63	Rusty sink of rhizodeposits and associated keystone microbiomes. Soil Biology and Biochemistry, 2020, 147, 107840.	8.8	73
64	Fertilizer overuse in Chinese smallholders due to lack of fixed inputs. Journal of Environmental Management, 2021, 293, 112913.	7.8	73
65	Sorption of phenanthrene by soils contaminated with heavy metals. Chemosphere, 2006, 65, 1355-1361.	8.2	71
66	Detailed sorption isotherms of pentachlorophenol on soils and its correlation with soil properties. Environmental Research, 2006, 101, 362-372.	7.5	65
67	Spatial dependence and bioavailability of metal fractions in paddy fields on metal concentrations in rice grain at a regional scale. Journal of Soils and Sediments, 2011, 11, 1165-1177.	3.0	65
68	Coupling between Pentachlorophenol Dechlorination and Soil Redox As Revealed by Stable Carbon Isotope, Microbial Community Structure, and Biogeochemical Data. Environmental Science & Technology, 2015, 49, 5425-5433.	10.0	65
69	Organic adsorbents modified with citric acid and Fe3O4 enhance the removal of Cd and Pb in contaminated solutions. Chemical Engineering Journal, 2020, 395, 125108.	12.7	65
70	Heavy metals in soil-vegetable system around E-waste site and the health risk assessment. Science of the Total Environment, 2021, 779, 146438.	8.0	65
71	Modeling transfer of heavy metals in soilâ€“rice system and their risk assessment in paddy fields. Environmental Earth Sciences, 2009, 59, 519-527.	2.7	64
72	The Effects and Mechanisms of Soil Acidity Changes, following Incorporation of Biochars in Three Soils Differing in Initial pH. Soil Science Society of America Journal, 2014, 78, 1606-1614.	2.2	64

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73	A multi-medium chain modeling approach to estimate the cumulative effects of cadmium pollution on human health. Environmental Pollution, 2018, 239, 308-317.	7.5	63
74	Genetic correlation network prediction of forest soil microbial functional organization. ISME Journal, 2018, 12, 2492-2505.	9.8	63
75	Global meta-analyses show that conservation tillage practices promote soil fungal and bacterial biomass. Agriculture, Ecosystems and Environment, 2020, 293, 106841.	5.3	63
76	Efficient biodegradation of phenanthrene by a novel strain Massilia sp. WF1 isolated from a PAH-contaminated soil. Environmental Science and Pollution Research, 2016, 23, 13378-13388.	5.3	62
77	Performance of biochar-supported nanoscale zero-valent iron for cadmium and arsenic co-contaminated soil remediation: Insights on availability, bioaccumulation and health risk. Environmental Pollution, 2021, 290, 118054.	7.5	62
78	Potential Risks of Copper, Zinc, and Cadmium Pollution due to Pig Manure Application in a Soilâ€“Rice System under Intensive Farming: A Case Study of Nanhu, China. Journal of Environmental Quality, 2011, 40, 1695-1704.	2.0	61
79	Changes in nitrogen related functional genes along soil pH, C and nutrient gradients in the charosphere. Science of the Total Environment, 2019, 650, 626-632.	8.0	61
80	Effects of carbide slag, lodestone and biochar on the immobilization, plant uptake and translocation of As and Cd in a contaminated paddy soil. Environmental Pollution, 2020, 266, 115194.	7.5	60
81	Assessing soil bacterial community and dynamics by integrated high-throughput absolute abundance quantification. PeerJ, 2018, 6, e4514.	2.0	60
82	The negative impact of cadmium on nitrogen transformation processes in a paddy soil is greater under non-flooding than flooding conditions. Environment International, 2019, 129, 451-460.	10.0	59
83	Differences in carbon and nitrogen mineralization in soils of differing initial pH induced by electrokinesis and receiving crop residue amendments. Soil Biology and Biochemistry, 2013, 67, 70-84.	8.8	58
84	Heterotrophic nitrification and denitrification are the main sources of nitrous oxide in two paddy soils. Plant and Soil, 2019, 445, 39-53.	3.7	58
85	Ammonia oxidizers and nitrite-oxidizing bacteria respond differently to long-term manure application in four paddy soils of south of China. Science of the Total Environment, 2018, 633, 641-648.	8.0	57
86	Soil fungal taxonomic and functional community composition as affected by biochar properties. Soil Biology and Biochemistry, 2018, 126, 159-167.	8.8	57
87	Salicylate and phthalate pathways contributed differently on phenanthrene and pyrene degradations in Mycobacterium sp. WY10. Journal of Hazardous Materials, 2019, 364, 509-518.	12.4	57
88	Achieving the safe use of Cd- and As-contaminated agricultural land with an Fe-based biochar: A field study. Science of the Total Environment, 2020, 706, 135898.	8.0	54
89	Long-Term Manure Application Changes Bacterial Communities in Rice Rhizosphere and Arsenic Speciation in Rice Grains. Environmental Science & Technology, 2021, 55, 1555-1565.	10.0	54
90	Potential driving forces and probabilistic health risks of heavy metal accumulation in the soils from an e-waste area, southeast China. Chemosphere, 2022, 289, 133182.	8.2	54

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91	Effects of magnetic biochar-microbe composite on Cd remediation and microbial responses in paddy soil. Journal of Hazardous Materials, 2021, 414, 125494.	12.4	53
92	Potential contributions of clay minerals and organic matter to pentachlorophenol retention in soils. Chemosphere, 2006, 65, 497-505.	8.2	52
93	Taxon-specific responses of soil microbial communities to different soil priming effects induced by addition of plant residues and their biochars. Journal of Soils and Sediments, 2017, 17, 674-684.	3.0	52
94	Archaea and bacteria respectively dominate nitrification in lightly and heavily grazed soil in a grassland system. Biology and Fertility of Soils, 2018, 54, 41-54.	4.3	52
95	Dissolved organic matter enhances the sorption of atrazine by soil. Biology and Fertility of Soils, 2006, 42, 418-425.	4.3	51
96	Using light fraction and macroaggregate associated organic matters as early indicators for management-induced changes in soil chemical and biological properties in adjacent native and plantation forests of subtropical Australia. Geoderma, 2008, 147, 116-125.	5.1	51
97	Sensitive responders among bacterial and fungal microbiome to pyrogenic organic matter (biochar) addition differed greatly between rhizosphere and bulk soils. Scientific Reports, 2016, 6, 36101.	3.3	51
98	Understanding the relationships between grazing intensity and the distribution of nitrifying communities in grassland soils. Science of the Total Environment, 2018, 634, 1157-1164.	8.0	51
99	Nitrosospira cluster 3-like bacterial ammonia oxidizers and Nitrospira-like nitrite oxidizers dominate nitrification activity in acidic terrace paddy soils. Soil Biology and Biochemistry, 2019, 131, 229-237.	8.8	50
100	Root-induced changes to cadmium speciation in the rhizosphere of two rice (Oryza sativa L.) genotypes. Environmental Research, 2011, 111, 356-361.	7.5	49
101	Spatial distribution and source apportionment of water pollution in different administrative zones of Wen-Rui-Tang (WRT) river watershed, China. Environmental Science and Pollution Research, 2013, 20, 5341-5352.	5.3	49
102	Assembly of root-associated microbiomes of typical rice cultivars in response to lindane pollution. Environment International, 2019, 131, 104975.	10.0	49
103	Decreasing cadmium uptake of rice (Oryza sativa L.) in the cadmium-contaminated paddy field through different cultivars coupling with appropriate soil amendments. Journal of Soils and Sediments, 2019, 19, 1788-1798.	3.0	49
104	Organic matter chemistry and bacterial community structure regulate decomposition processes in post-fire forest soils. Soil Biology and Biochemistry, 2021, 160, 108311.	8.8	49
105	Biodegradation, Biosorption of Phenanthrene and Its Trans-Membrane Transport by Massilia sp. WF1 and Phanerochaete chrysosporium. Frontiers in Microbiology, 2016, 7, 38.	3.5	48
106	Metagenomic insights into soil microbial communities involved in carbon cycling along an elevation climosequences. Environmental Microbiology, 2021, 23, 4631-4645.	3.8	48
107	Does the depletion of pentachlorophenol in rootâ€“soil interface follow a simple linear dependence on the distance to root surfaces?. Soil Biology and Biochemistry, 2009, 41, 1807-1813.	8.8	47
108	Arbuscular Mycorrhizal Fungal Hyphae Alter Soil Bacterial Community and Enhance Polychlorinated Biphenyls Dissipation. Frontiers in Microbiology, 2016, 7, 939.	3.5	47

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109	The influence of soil properties on the size and structure of bacterial and fungal communities along a paddy soil chronosequence. European Journal of Soil Biology, 2016, 76, 9-18.	3.2	47
110	Warmer and drier conditions alter the nitrifier and denitrifier communities and reduce N2O emissions in fertilized vegetable soils. Agriculture, Ecosystems and Environment, 2016, 231, 133-142.	5.3	47
111	First â€œcharosphereâ€•view towards the transport and transformation of Cd with addition of manure derived biochar. Environmental Pollution, 2017, 227, 175-182.	7.5	47
112	Evaluation of dissipation gradients of polycyclic aromatic hydrocarbons in rice rhizosphere utilizing a sequential extraction procedure. Environmental Pollution, 2012, 162, 413-421.	7.5	46
113	Bacterial Community Composition Associated with Pyrogenic Organic Matter (Biochar) Varies with Pyrolysis Temperature and Colonization Environment. MSphere, 2017, 2, .	2.9	46
114	A comprehensive mitigation strategy for heavy metal contamination of farmland around mining areas â€“ Screening of low accumulated cultivars, soil remediation and risk assessment. Environmental Pollution, 2019, 245, 820-828.	7.5	46
115	Nitrogen fertilization increases rice rhizodeposition and its stabilization in soil aggregates and the humus fraction`. Plant and Soil, 2019, 445, 125-135.	3.7	46
116	The ratio of clay content to total organic carbon content is a useful parameter to predict adsorption of the herbicide butachlor in soils. Environmental Pollution, 2008, 152, 163-171.	7.5	44
117	Acidification and salinization of soils with different initial pH under greenhouse vegetable cultivation. Journal of Soils and Sediments, 2014, 14, 1683-1692.	3.0	44
118	Opportunities for Phytoremediation and Bioindication of Arsenic Contaminated Water Using a Submerged Aquatic Plant:Vallisneria natans(lour.) Hara.. International Journal of Phytoremediation, 2015, 17, 249-255.	3.1	44
119	Co-benefits of biochar-supported nanoscale zero-valent iron in simultaneously stabilizing soil heavy metals and reducing their bioaccessibility. Journal of Hazardous Materials, 2021, 418, 126292.	12.4	44
120	The properties and functions of biochars in forest ecosystems. Journal of Soils and Sediments, 2016, 16, 2005-2020.	3.0	43
121	High manure load reduces bacterial diversity and network complexity in a paddy soil under crop rotations. Soil Ecology Letters, 2020, 2, 104-119.	4.5	43
122	Combined biochar and nitrogen fertilizer reduces soil acidity and promotes nutrient use efficiency by soybean crop. Journal of Soils and Sediments, 2017, 17, 599-610.	3.0	42
123	Use of an improved high-throughput absolute abundance quantification method to characterize soil bacterial community and dynamics. Science of the Total Environment, 2018, 633, 360-371.	8.0	42
124	Interaction between the Microbial Community and Invading Escherichia coli O157:H7 in Soils from Vegetable Fields. Applied and Environmental Microbiology, 2014, 80, 70-76.	3.1	41
125	Spatial variations of concentrations of copper and its speciation in the soil-rice system in Wenling of southeastern China. Environmental Science and Pollution Research, 2014, 21, 7165-7176.	5.3	41
126	Light exposure mediates circadian rhythms of rhizosphere microbial communities. ISME Journal, 2021, 15, 2655-2664.	9.8	41

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127	Potential Role of Methanogens in Microbial Reductive Dechlorination of Organic Chlorinated Pollutants In Situ. Environmental Science & Technology, 2021, 55, 5917-5928.	10.0	41
128	Profiling of PLFA: Implications for nonlinear spatial gradient of PCP degradation in the vicinity of Lolium perenne L. roots. Soil Biology and Biochemistry, 2007, 39, 1121-1129.	8.8	40
129	Policy adjustment impacts Cd, Cu, Ni, Pb and Zn contamination in soils around e-waste area: Concentrations, sources and health risks. Science of the Total Environment, 2020, 741, 140442.	8.0	40
130	Effect of Iron Plaque Formation on Phosphorus Accumulation and Availability in the Rhizosphere of Wetland Plants. Water, Air, and Soil Pollution, 2009, 200, 79-87.	2.4	39
131	Differences in transport behavior of natural soil colloids of contrasting sizes from nanometer to micron and the environmental implications. Science of the Total Environment, 2018, 634, 802-810.	8.0	39
132	Dynamics of Soil Microbial N-Cycling Strategies in Response to Cadmium Stress. Environmental Science & Technology, 2021, 55, 14305-14315.	10.0	39
133	Spatial variability of soil organic matter and nutrients in paddy fields at various scales in southeast China. Environmental Geology, 2008, 53, 1139-1147.	1.2	37
134	Microbial pathways for nitrous oxide emissions from sheep urine and dung in a typical steppe grassland. Biology and Fertility of Soils, 2018, 54, 717-730.	4.3	37
135	Synchronous response in methanogenesis and anaerobic degradation of pentachlorophenol in flooded soil. Journal of Hazardous Materials, 2019, 374, 258-266.	12.4	37
136	Contrasting effects of microplastics on sorption of diazepam and phenanthrene in soil. Journal of Hazardous Materials, 2021, 406, 124312.	12.4	37
137	Assembly of root-associated bacterial community in cadmium contaminated soil following five-year consecutive application of soil amendments: Evidences for improved soil health. Journal of Hazardous Materials, 2022, 426, 128095.	12.4	37
138	Contamination with multiple heavy metals decreases microbial diversity and favors generalists as the keystones in microbial occurrence networks. Environmental Pollution, 2022, 306, 119406.	7.5	37
139	The impact of solution chemistry of electrolyte on the sorption of pentachlorophenol and phenanthrene by natural hematite nanoparticles. Science of the Total Environment, 2014, 466-467, 577-585.	8.0	36
140	Nitrogen combined with biochar changed the feedback mechanism between soil nitrification and Cd availability in an acidic soil. Journal of Hazardous Materials, 2020, 390, 121631.	12.4	36
141	Protists modulate fungal community assembly in paddy soils across climatic zones at the continental scale. Soil Biology and Biochemistry, 2021, 160, 108358.	8.8	36
142	Abiotic and biotic regulation on carbon mineralization and stabilization in paddy soils along iron oxide gradients. Soil Biology and Biochemistry, 2021, 160, 108312.	8.8	36
143	Does history matter? Temperature effects on soil microbial biomass and community structure based on the phospholipid fatty acid (PLFA) analysis. Journal of Soils and Sediments, 2010, 10, 223-230.	3.0	35
144	Labile carbon facilitated phosphorus solubilization as regulated by bacterial and fungal communities in Zea mays. Soil Biology and Biochemistry, 2021, 163, 108465.	8.8	35

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145	Cucurbita spp. and Cucumis sativus enhance the dissipation of polychlorinated biphenyl congeners by stimulating soil microbial community development. Environmental Pollution, 2014, 184, 306-312.	7.5	34
146	Nitrate supply and sulfate-reducing suppression facilitate the removal of pentachlorophenol in a flooded mangrove soil. Environmental Pollution, 2019, 244, 792-800.	7.5	34
147	Biochar induces mineralization of soil recalcitrant components by activation of biochar responsive bacteria groups. Soil Biology and Biochemistry, 2022, 172, 108778.	8.8	34
148	Management practices have a major impact on nitrifier and denitrifier communities in a semiarid grassland ecosystem. Journal of Soils and Sediments, 2016, 16, 896-908.	3.0	33
149	The dechlorination of pentachlorophenol under a sulfate and iron reduction co-occurring anaerobic environment. Chemosphere, 2017, 182, 166-173.	8.2	33
150	Abundance and diversity of microbial arsenic biotransformation genes in the sludge of full-scale anaerobic digesters from a municipal wastewater treatment plant. Environment International, 2020, 138, 105535.	10.0	33
151	Loss of microbial diversity does not decrease Î³-HCH degradation but increases methanogenesis in flooded paddy soil. Soil Biology and Biochemistry, 2021, 156, 108210.	8.8	33
152	Occurrence and health risks of heavy metals in plastic-shed soils and vegetables across China. Agriculture, Ecosystems and Environment, 2021, 321, 107632.	5.3	33
153	Sorption of pentachlorophenol and phenanthrene by humic acid-coated hematite nanoparticles. Environmental Pollution, 2019, 248, 929-937.	7.5	32
154	Soil pH and microbial diversity constrain the survival of E. coli in soil. Soil Biology and Biochemistry, 2019, 128, 139-149.	8.8	32
155	Nanoscale zero-valent iron reduction coupled with anaerobic dechlorination to degrade hexachlorocyclohexane isomers in historically contaminated soil. Journal of Hazardous Materials, 2020, 400, 123298.	12.4	32
156	Microbial community structure changes during Aroclorâ€ƒ1242 degradation in the rhizosphere of ryegrass (Lolium multiflorumL.). FEMS Microbiology Ecology, 2009, 70, 305-314.	2.7	31
157	Fate of Escherichia coli O157: H7 in agricultural soils amended with different organic fertilizers. Journal of Hazardous Materials, 2015, 296, 30-36.	12.4	31
158	Impact of wheat straw biochar on yield of rice and some properties of Psammaquent and Plinthudult. Journal of Soil Science and Plant Nutrition, 2017, 17, 808-823.	3.4	31
159	Reduction in the exposure risk of farmer from e-waste recycling site following environmental policy adjustment: A regional scale view of PAHs in paddy fields. Environment International, 2019, 133, 105136.	10.0	31
160	Influences of nitrogen fertilization and climate regime on the above-ground biomass yields of miscanthus and switchgrass: A meta-analysis. Renewable and Sustainable Energy Reviews, 2019, 108, 303-311.	16.4	31
161	Long-term follow-up of Helicobacter pylori reinfection and its risk factors after initial eradication: a large-scale multicentre, prospective open cohort, observational study. Emerging Microbes and Infections, 2020, 9, 548-557.	6.5	31
162	Arbuscular mycorrhizal fungi and goethite promote carbon sequestration via hyphal-aggregate mineral interactions. Soil Biology and Biochemistry, 2021, 162, 108417.	8.8	31

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