

Jianming Xu

List of Publications by Year in Descending Order

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Version: 2024-04-26

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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.

297
papers

10,593
citations

54
h-index

89
g-index

313
ext. papers

14,305
ext. citations

7.9
avg, IF

6.82
L-index

#	Paper	IF	Citations
297	Consistent responses of microbial C and N metabolic processes to elevated CO ₂ across global terrestrial ecosystems. <i>Journal of Soils and Sediments</i> , 2022 , 22, 403-408	3.4	0
296	Water regime is important to determine cadmium toxicity on rice growth and rhizospheric nitrifier communities in contaminated paddy soils. <i>Plant and Soil</i> , 2022 , 472, 609	4.2	0
295	Biochar-supported nanoscale zero-valent iron can simultaneously decrease cadmium and arsenic uptake by rice grains in co-contaminated soil.. <i>Science of the Total Environment</i> , 2022 , 814, 152798	10.2	1
294	Influence of tetracycline on arsenic mobilization and biotransformation in flooded soils. <i>Environmental Pollution</i> , 2022 , 292, 118416	9.3	2
293	Recovery patterns of soil bacterial and fungal communities in Chinese boreal forests along a fire chronosequence. <i>Science of the Total Environment</i> , 2022 , 805, 150372	10.2	2
292	Diagnosis and treatment of Helicobacter pylori infection by physicians in China: A nationwide cross-sectional study.. <i>Helicobacter</i> , 2022 , e12889	4.9	1
291	Biochar alleviated the toxicity of atrazine to soybeans, as revealed by soil microbial community and the assembly process.. <i>Science of the Total Environment</i> , 2022 , 155261	10.2	0
290	Co-high-efficiency washing agents for simultaneous removal of Cd, Pb and As from smelting soil with risk assessment.. <i>Chemosphere</i> , 2022 , 134581	8.4	1
289	Contamination with multiple heavy metals decreases microbial diversity and favors generalists as the keystones in microbial occurrence networks.. <i>Environmental Pollution</i> , 2022 , 119406	9.3	0
288	Microbial interactions enhanced environmental fitness and expanded ecological niches under dibutyl phthalate and cadmium co-contamination.. <i>Environmental Pollution</i> , 2022 , 306, 119362	9.3	0
287	The effects of biochar aging on rhizosphere microbial communities in cadmium-contaminated acid soil. <i>Chemosphere</i> , 2022 , 303, 135153	8.4	0
286	Consolidation of agricultural land can contribute to agricultural sustainability in China. <i>Nature Food</i> , 2021 , 2, 1014-1022	14.4	9
285	Abating ammonia is more cost-effective than nitrogen oxides for mitigating PM air pollution. <i>Science</i> , 2021 , 374, 758-762	33.3	24
284	Suspecting screening "known unknown" pesticides and transformation products in soil at pesticide manufacturing sites. <i>Science of the Total Environment</i> , 2021 , 808, 152074	10.2	2
283	Potential driving forces and probabilistic health risks of heavy metal accumulation in the soils from an e-waste area, southeast China. <i>Chemosphere</i> , 2021 , 289, 133182	8.4	5
282	Assembly of root-associated bacterial community in cadmium contaminated soil following five-year consecutive application of soil amendments: Evidences for improved soil health.. <i>Journal of Hazardous Materials</i> , 2021 , 426, 128095	12.8	1
281	Soil chemistry determines whether defensive plant secondary metabolites promote or suppress herbivore growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2

280	Dynamics of Soil Microbial N-Cycling Strategies in Response to Cadmium Stress. <i>Environmental Science & Technology</i> , 2021 , 55, 14305-14315	10.3	4
279	Concurrent and rapid recovery of bacteria and protist communities in Canadian boreal forest ecosystems following wildfire. <i>Soil Biology and Biochemistry</i> , 2021 , 163, 108452	7.5	2
278	Labile carbon facilitated phosphorus solubilization as regulated by bacterial and fungal communities in Zea mays. <i>Soil Biology and Biochemistry</i> , 2021 , 163, 108465	7.5	4
277	Soil Biogeochemical Cycle Couplings Inferred from a Function-Taxon Network. <i>Research</i> , 2021 , 2021, 7102769	7.8	6
276	Light exposure mediates circadian rhythms of rhizosphere microbial communities. <i>ISME Journal</i> , 2021 , 15, 2655-2664	11.9	3
275	Urbanization can benefit agricultural production with large-scale farming in China. <i>Nature Food</i> , 2021 , 2, 183-191	14.4	23
274	Potential Role of Methanogens in Microbial Reductive Dechlorination of Organic Chlorinated Pollutants. <i>Environmental Science & Technology</i> , 2021 , 55, 5917-5928	10.3	6
273	Long-term nitrogen and sulfur deposition increased root-associated pathogen diversity and changed mutualistic fungal diversity in a boreal forest. <i>Soil Biology and Biochemistry</i> , 2021 , 155, 108163	7.5	4
272	Warming facilitates microbial reduction and release of arsenic in flooded paddy soil and arsenic accumulation in rice grains. <i>Journal of Hazardous Materials</i> , 2021 , 408, 124913	12.8	6
271	Intact and washed biochar caused different patterns of nitrogen transformation and distribution in a flooded paddy soil. <i>Journal of Cleaner Production</i> , 2021 , 293, 126259	10.3	4
270	Deciphering sample size effect on microbial biogeographic patterns and community assembly processes at centimeter scale. <i>Soil Biology and Biochemistry</i> , 2021 , 156, 108218	7.5	4
269	Loss of microbial diversity does not decrease HCH degradation but increases methanogenesis in flooded paddy soil. <i>Soil Biology and Biochemistry</i> , 2021 , 156, 108210	7.5	11
268	The Warming Climate Aggravates Atmospheric Nitrogen Pollution in Australia. <i>Research</i> , 2021 , 2021, 9804583	7.8	2
267	Association of biochar properties with changes in soil bacterial, fungal and fauna communities and nutrient cycling processes. <i>Biochar</i> , 2021 , 3, 239-254	10	23
266	Effects of magnetic biochar-microbe composite on Cd remediation and microbial responses in paddy soil. <i>Journal of Hazardous Materials</i> , 2021 , 414, 125494	12.8	13
265	Heavy metals in soil-vegetable system around E-waste site and the health risk assessment. <i>Science of the Total Environment</i> , 2021 , 779, 146438	10.2	18
264	Quantification of the sorption of organic pollutants to minerals via an improved mathematical model accounting for associations between minerals and soil organic matter. <i>Environmental Pollution</i> , 2021 , 280, 116991	9.3	4
263	The legacy of bacterial invasions on soil native communities. <i>Environmental Microbiology</i> , 2021 , 23, 669-681	9.1	5

262	Changes in microbial community structure due to chronic trace element concentrations in different sizes of soil aggregates. <i>Environmental Pollution</i> , 2021 , 268, 115933	9.3	5
261	The stoichiometric C-Fe ratio regulates glucose mineralization and stabilization via microbial processes. <i>Geoderma</i> , 2021 , 383, 114769	6.7	5
260	Interactions between methanotrophs and ammonia oxidizers modulate the response of in situ methane emissions to simulated climate change and its legacy in an acidic soil. <i>Science of the Total Environment</i> , 2021 , 752, 142225	10.2	11
259	Assembly and variation of root-associated microbiota of rice during their vegetative growth phase with and without lindane pollutant. <i>Soil Ecology Letters</i> , 2021 , 3, 207-219	2.7	9
258	Performance and mechanisms for remediation of Cd(II) and As(III) co-contamination by magnetic biochar-microbe biochemical composite: Competition and synergy effects. <i>Science of the Total Environment</i> , 2021 , 750, 141672	10.2	29
257	Plant material and its biochar differ in their effects on nitrogen mineralization and nitrification in a subtropical forest soil. <i>Science of the Total Environment</i> , 2021 , 763, 143048	10.2	8
256	Methane-associated micro-ecological processes crucially improve the self-purification of lindane-polluted paddy soil. <i>Journal of Hazardous Materials</i> , 2021 , 407, 124839	12.8	2
255	Contrasting effects of microplastics on sorption of diazepam and phenanthrene in soil. <i>Journal of Hazardous Materials</i> , 2021 , 406, 124312	12.8	11
254	Long-Term Manure Application Changes Bacterial Communities in Rice Rhizosphere and Arsenic Speciation in Rice Grains. <i>Environmental Science & Technology</i> , 2021 , 55, 1555-1565	10.3	13
253	Biochar decreased rhizodeposits stabilization via opposite effects on bacteria and fungi: diminished fungi-promoted aggregation and enhanced bacterial mineralization. <i>Biology and Fertility of Soils</i> , 2021 , 57, 533-546	6.1	5
252	Attapulgite and processed oyster shell powder effectively reduce cadmium accumulation in grains of rice growing in a contaminated acidic paddy field. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 209, 111840	7	6
251	Metagenomic insights into soil microbial communities involved in carbon cycling along an elevation climosequences. <i>Environmental Microbiology</i> , 2021 , 23, 4631-4645	5.2	2
250	Interactive effects of biochar type and pH on the bioavailability of As and Cd and microbial activities in co-contaminated soils. <i>Environmental Technology and Innovation</i> , 2021 , 23, 101767	7	3
249	Microbial and abiotic factors of flooded soil that affect redox biodegradation of lindane. <i>Science of the Total Environment</i> , 2021 , 780, 146606	10.2	1
248	Soil indigenous microorganisms weaken the synergy of <i>Massilia</i> sp. WF1 and <i>Phanerochaete chrysosporium</i> in phenanthrene biodegradation. <i>Science of the Total Environment</i> , 2021 , 781, 146655	10.2	6
247	Protists modulate fungal community assembly in paddy soils across climatic zones at the continental scale. <i>Soil Biology and Biochemistry</i> , 2021 , 160, 108358	7.5	3
246	Regulating the dechlorination and methanogenesis synchronously to achieve a win-win remediation solution for hexachlorocyclohexane polluted anaerobic environment. <i>Water Research</i> , 2021 , 203, 117542	12.5	4
245	Abiotic and biotic regulation on carbon mineralization and stabilization in paddy soils along iron oxide gradients. <i>Soil Biology and Biochemistry</i> , 2021 , 160, 108312	7.5	5

244	Organic matter chemistry and bacterial community structure regulate decomposition processes in post-fire forest soils. <i>Soil Biology and Biochemistry</i> , 2021 , 160, 108311	7.5	6
243	Co-benefits of biochar-supported nanoscale zero-valent iron in simultaneously stabilizing soil heavy metals and reducing their bioaccessibility. <i>Journal of Hazardous Materials</i> , 2021 , 418, 126292	12.8	7
242	Fertilizer overuse in Chinese smallholders due to lack of fixed inputs. <i>Journal of Environmental Management</i> , 2021 , 293, 112913	7.9	13
241	Changes in profile distribution and chemical properties of natural nanoparticles in paddy soils as affected by long-term rice cultivation. <i>Pedosphere</i> , 2021 , 31, 659-669	5	1
240	Effect of alkaline lignin on immobilization of cadmium and lead in soils and the associated mechanisms. <i>Chemosphere</i> , 2021 , 281, 130969	8.4	7
239	Biochar aging alters the bioavailability of cadmium and microbial activity in acid contaminated soils. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126666	12.8	7
238	Novel agricultural waste-based materials decrease the uptake and accumulation of cadmium by rice (<i>Oryza sativa</i> L.) in contaminated paddy soils. <i>Environmental Pollution</i> , 2021 , 289, 117838	9.3	0
237	Contrasting effects of carbon source recalcitrance on soil phosphorus availability and communities of phosphorus solubilizing microorganisms. <i>Journal of Environmental Management</i> , 2021 , 298, 113426	7.9	2
236	Arbuscular mycorrhizal fungi and goethite promote carbon sequestration via hyphal-aggregate mineral interactions. <i>Soil Biology and Biochemistry</i> , 2021 , 162, 108417	7.5	4
235	Bacterial community structure and putative nitrogen-cycling functional traits along a charosphere gradient under waterlogged conditions. <i>Soil Biology and Biochemistry</i> , 2021 , 162, 108420	7.5	3
234	Human-caused increases in reactive nitrogen burial in sediment of global lakes. <i>Innovation(China)</i> , 2021 , 2, 100158	17.8	1
233	Occurrence and health risks of heavy metals in plastic-shed soils and vegetables across China. <i>Agriculture, Ecosystems and Environment</i> , 2021 , 321, 107632	5.7	3
232	Performance of biochar-supported nanoscale zero-valent iron for cadmium and arsenic co-contaminated soil remediation: Insights on availability, bioaccumulation and health risk. <i>Environmental Pollution</i> , 2021 , 290, 118054	9.3	9
231	Habitat heterogeneity induced by pyrogenic organic matter in wildfire-perturbed soils mediates bacterial community assembly processes. <i>ISME Journal</i> , 2021 , 15, 1943-1955	11.9	7
230	Spatiotemporal modeling of soil heavy metals and early warnings from scenarios-based prediction. <i>Chemosphere</i> , 2020 , 255, 126908	8.4	7
229	Rusty sink of rhizodeposits and associated keystone microbiomes. <i>Soil Biology and Biochemistry</i> , 2020 , 147, 107840	7.5	37
228	Shifts in the bacterial community along with root-associated compartments of maize as affected by goethite. <i>Biology and Fertility of Soils</i> , 2020 , 56, 1201-1210	6.1	9
227	Pollution adaptive responses of root-associated microbiomes induced the promoted but different attenuation of soil residual lindane: Differences between maize and soybean. <i>Science of the Total Environment</i> , 2020 , 732, 139170	10.2	6

226	Earth microbial co-occurrence network reveals interconnection pattern across microbiomes. <i>Microbiome</i> , 2020 , 8, 82	16.6	80
225	A novel calcium-based magnetic biochar reduces the accumulation of As in grains of rice (<i>Oryza sativa</i> L.) in As-contaminated paddy soils. <i>Journal of Hazardous Materials</i> , 2020 , 394, 122507	12.8	13
224	Long-term follow-up of reinfection and its risk factors after initial eradication: a large-scale multicentre, prospective open cohort, observational study. <i>Emerging Microbes and Infections</i> , 2020 , 9, 548-557	18.9	16
223	Nanoscale zero-valent iron reduction coupled with anaerobic dechlorination to degrade hexachlorocyclohexane isomers in historically contaminated soil. <i>Journal of Hazardous Materials</i> , 2020 , 400, 123298	12.8	11
222	Elevated temperature shifts soil N cycling from microbial immobilization to enhanced mineralization, nitrification and denitrification across global terrestrial ecosystems. <i>Global Change Biology</i> , 2020 , 26, 5267-5276	11.4	44
221	Policy adjustment impacts Cd, Cu, Ni, Pb and Zn contamination in soils around e-waste area: Concentrations, sources and health risks. <i>Science of the Total Environment</i> , 2020 , 741, 140442	10.2	20
220	Global meta-analyses show that conservation tillage practices promote soil fungal and bacterial biomass. <i>Agriculture, Ecosystems and Environment</i> , 2020 , 293, 106841	5.7	32
219	Mechanisms for the removal of Cd(II) and Cu(II) from aqueous solution and mine water by biochars derived from agricultural wastes. <i>Chemosphere</i> , 2020 , 254, 126745	8.4	56
218	Response of soil native microbial community to <i>Escherichia coli</i> O157:H7 invasion. <i>Environmental Pollution</i> , 2020 , 261, 114225	9.3	5
217	Simultaneous adsorption of Cd(II) and As(III) by a novel biochar-supported nanoscale zero-valent iron in aqueous systems. <i>Science of the Total Environment</i> , 2020 , 708, 134823	10.2	63
216	Nitrogen combined with biochar changed the feedback mechanism between soil nitrification and Cd availability in an acidic soil. <i>Journal of Hazardous Materials</i> , 2020 , 390, 121631	12.8	14
215	Maize straw biochar addition inhibited pentachlorophenol dechlorination by strengthening the predominant soil reduction processes in flooded soil. <i>Journal of Hazardous Materials</i> , 2020 , 386, 122002	12.8	12
214	Simultaneous immobilization of the cadmium, lead and arsenic in paddy soils amended with titanium gypsum. <i>Environmental Pollution</i> , 2020 , 258, 113790	9.3	34
213	A novel calcium-based magnetic biochar is effective in stabilization of arsenic and cadmium co-contamination in aerobic soils. <i>Journal of Hazardous Materials</i> , 2020 , 387, 122010	12.8	67
212	Long-term nutrient inputs shift soil microbial functional profiles of phosphorus cycling in diverse agroecosystems. <i>ISME Journal</i> , 2020 , 14, 757-770	11.9	87
211	Achieving the safe use of Cd- and As-contaminated agricultural land with an Fe-based biochar: A field study. <i>Science of the Total Environment</i> , 2020 , 706, 135898	10.2	23
210	Changes in abundance and composition of nitrifying communities in barley (<i>Hordeum vulgare</i> L.) rhizosphere and bulk soils over the growth period following combined biochar and urea amendment. <i>Biology and Fertility of Soils</i> , 2020 , 56, 169-183	6.1	13
209	Microplastics in the soil environment: Occurrence, risks, interactions and fate [A review]. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 50, 2175-2222	11.1	115

208	Effects of carbide slag, lodestone and biochar on the immobilization, plant uptake and translocation of As and Cd in a contaminated paddy soil. <i>Environmental Pollution</i> , 2020 , 266, 115194	9.3	26
207	Gain in carbon: Deciphering the abiotic and biotic mechanisms of biochar-induced negative priming effects in contrasting soils. <i>Science of the Total Environment</i> , 2020 , 746, 141057	10.2	12
206	Chemical and biological immobilization mechanisms of potentially toxic elements in biochar-amended soils. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 50, 903-978	11.1	69
205	Impact of grazing on shaping abundance and composition of active methanotrophs and methane oxidation activity in a grassland soil. <i>Biology and Fertility of Soils</i> , 2020 , 56, 799-810	6.1	8
204	High manure load reduces bacterial diversity and network complexity in a paddy soil under crop rotations. <i>Soil Ecology Letters</i> , 2020 , 2, 104-119	2.7	15
203	Organic adsorbents modified with citric acid and Fe ₃ O ₄ enhance the removal of Cd and Pb in contaminated solutions. <i>Chemical Engineering Journal</i> , 2020 , 395, 125108	14.7	31
202	Abundance and diversity of microbial arsenic biotransformation genes in the sludge of full-scale anaerobic digesters from a municipal wastewater treatment plant. <i>Environment International</i> , 2020 , 138, 105535	12.9	13
201	Improved rhizoremediation for decabromodiphenyl ether (BDE-209) in E-waste contaminated soils. <i>Soil Ecology Letters</i> , 2019 , 1, 157-173	2.7	2
200	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. <i>Environment International</i> , 2019 , 133, 105136	12.9	12
199	Solvent-assisted vacuum desorption coupled with gas chromatography-tandem mass spectrometry for rapid determination of polycyclic aromatic hydrocarbons in soil samples. <i>Journal of Chromatography A</i> , 2019 , 1604, 460473	4.5	4
198	Autotrophic archaeal nitrification is preferentially stimulated by rice callus mineralization in a paddy soil. <i>Plant and Soil</i> , 2019 , 445, 55-69	4.2	13
197	Improved synergistic dechlorination of PCP in flooded soil microcosms with supplementary electron donors, as revealed by strengthened connections of functional microbial interactome. <i>Soil Biology and Biochemistry</i> , 2019 , 136, 107515	7.5	14
196	Remediation of heavy metal contaminated soils by biochar: Mechanisms, potential risks and applications in China. <i>Environmental Pollution</i> , 2019 , 252, 846-855	9.3	226
195	The negative impact of cadmium on nitrogen transformation processes in a paddy soil is greater under non-flooding than flooding conditions. <i>Environment International</i> , 2019 , 129, 451-460	12.9	26
194	Status assessment and probabilistic health risk modeling of metals accumulation in agriculture soils across China: A synthesis. <i>Environment International</i> , 2019 , 128, 165-174	12.9	87
193	Synchronous response in methanogenesis and anaerobic degradation of pentachlorophenol in flooded soil. <i>Journal of Hazardous Materials</i> , 2019 , 374, 258-266	12.8	19
192	Co-transport of phenanthrene and pentachlorophenol by natural soil nanoparticles through saturated sand columns. <i>Environmental Pollution</i> , 2019 , 249, 406-413	9.3	16
191	Sorption of pentachlorophenol and phenanthrene by humic acid-coated hematite nanoparticles. <i>Environmental Pollution</i> , 2019 , 248, 929-937	9.3	18

190	Influences of nitrogen fertilization and climate regime on the above-ground biomass yields of miscanthus and switchgrass: A meta-analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 108, 303-311	16.2	15
189	Elevated temperature increased nitrification activity by stimulating AOB growth and activity in an acidic paddy soil. <i>Plant and Soil</i> , 2019 , 445, 71-83	4.2	9
188	Adsorption and desorption of phenanthrene by magnetic graphene nanomaterials from water: Roles of pH, heavy metal ions and natural organic matter. <i>Chemical Engineering Journal</i> , 2019 , 368, 390-399	14.7	56
187	Assembly of root-associated microbiomes of typical rice cultivars in response to lindane pollution. <i>Environment International</i> , 2019 , 131, 104975	12.9	25
186	An integrated analysis on source-exposure risk of heavy metals in agricultural soils near intense electronic waste recycling activities. <i>Environment International</i> , 2019 , 133, 105239	12.9	51
185	Changes in nitrogen related functional genes along soil pH, C and nutrient gradients in the charosphere. <i>Science of the Total Environment</i> , 2019 , 650, 626-632	10.2	35
184	Soil available phosphorus content drives the spatial distribution of archaeal communities along elevation in acidic terrace paddy soils. <i>Science of the Total Environment</i> , 2019 , 658, 723-731	10.2	11
183	Decreasing cadmium uptake of rice (<i>Oryza sativa</i> L.) in the cadmium-contaminated paddy field through different cultivars coupling with appropriate soil amendments. <i>Journal of Soils and Sediments</i> , 2019 , 19, 1788-1798	3.4	27
182	A comprehensive mitigation strategy for heavy metal contamination of farmland around mining areas - Screening of low accumulated cultivars, soil remediation and risk assessment. <i>Environmental Pollution</i> , 2019 , 245, 820-828	9.3	31
181	Nitrospira cluster 3-like bacterial ammonia oxidizers and Nitrospira-like nitrite oxidizers dominate nitrification activity in acidic terrace paddy soils. <i>Soil Biology and Biochemistry</i> , 2019 , 131, 229-237	7.5	35
180	Pentachlorophenol alters the acetate-assimilating microbial community and redox cycling in anoxic soils. <i>Soil Biology and Biochemistry</i> , 2019 , 131, 133-140	7.5	15
179	T4-type viruses: Important impacts on shaping bacterial community along a chronosequence of 2000-year old paddy soils. <i>Soil Biology and Biochemistry</i> , 2019 , 128, 89-99	7.5	13
178	Ten-year regional monitoring of soil-rice grain contamination by heavy metals with implications for target remediation and food safety. <i>Environmental Pollution</i> , 2019 , 244, 431-439	9.3	61
177	Soil pH and microbial diversity constrain the survival of <i>E. coli</i> in soil. <i>Soil Biology and Biochemistry</i> , 2019 , 128, 139-149	7.5	15
176	Nitrogen fertilization increases rice rhizodeposition and its stabilization in soil aggregates and the humus fraction. <i>Plant and Soil</i> , 2019 , 445, 125-135	4.2	30
175	Heterotrophic nitrification and denitrification are the main sources of nitrous oxide in two paddy soils. <i>Plant and Soil</i> , 2019 , 445, 39-53	4.2	40
174	Nitrate supply and sulfate-reducing suppression facilitate the removal of pentachlorophenol in a flooded mangrove soil. <i>Environmental Pollution</i> , 2019 , 244, 792-800	9.3	22
173	Salicylate and phthalate pathways contributed differently on phenanthrene and pyrene degradations in <i>Mycobacterium</i> sp. WY10. <i>Journal of Hazardous Materials</i> , 2019 , 364, 509-518	12.8	27

172	Novel insight into adsorption and co-adsorption of heavy metal ions and an organic pollutant by magnetic graphene nanomaterials in water. <i>Chemical Engineering Journal</i> , 2019 , 358, 1399-1409	14.7	123
171	Easily mineralizable carbon in manure-based biochar added to a soil influences N ₂ O emissions and microbial-N cycling genes. <i>Land Degradation and Development</i> , 2019 , 30, 406-416	4.4	14
170	Chemical speciation and risk assessment of Cu and Zn in biochars derived from co-pyrolysis of pig manure with rice straw. <i>Chemosphere</i> , 2018 , 200, 344-350	8.4	66
169	A multi-medium chain modeling approach to estimate the cumulative effects of cadmium pollution on human health. <i>Environmental Pollution</i> , 2018 , 239, 308-317	9.3	45
168	Understanding the relationships between grazing intensity and the distribution of nitrifying communities in grassland soils. <i>Science of the Total Environment</i> , 2018 , 634, 1157-1164	10.2	22
167	The sorption kinetics and isotherms of sulfamethoxazole with polyethylene microplastics. <i>Marine Pollution Bulletin</i> , 2018 , 131, 191-196	6.7	111
166	Differences in transport behavior of natural soil colloids of contrasting sizes from nanometer to micron and the environmental implications. <i>Science of the Total Environment</i> , 2018 , 634, 802-810	10.2	24
165	Long-term nitrogen fertilization decreases bacterial diversity and favors the growth of Actinobacteria and Proteobacteria in agro-ecosystems across the globe. <i>Global Change Biology</i> , 2018 , 24, 3452-3461	11.4	187
164	Contrasting effects of alkaline amendments on the bioavailability and uptake of Cd in rice plants in a Cd-contaminated acid paddy soil. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 8827-8835	5.1	52
163	Toxicity, Adsorption, and Dissipation of Polycyclic Aromatic Hydrocarbons in Soil 2018 , 605-628		1
162	Effects of ferrous sulfate amendment and water management on rice growth and metal(loid) accumulation in arsenic and lead co-contaminated soil. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 8888-8902	5.1	21
161	Remediation of As(III) and Cd(II) co-contamination and its mechanism in aqueous systems by a novel calcium-based magnetic biochar. <i>Journal of Hazardous Materials</i> , 2018 , 348, 10-19	12.8	116
160	Microplastics play a minor role in tetracycline sorption in the presence of dissolved organic matter. <i>Environmental Pollution</i> , 2018 , 240, 87-94	9.3	163
159	Increased occurrence of heavy metals, antibiotics and resistance genes in surface soil after long-term application of manure. <i>Science of the Total Environment</i> , 2018 , 635, 995-1003	10.2	98
158	Ammonia oxidizers and nitrite-oxidizing bacteria respond differently to long-term manure application in four paddy soils of south of China. <i>Science of the Total Environment</i> , 2018 , 633, 641-648	10.2	42
157	Use of an improved high-throughput absolute abundance quantification method to characterize soil bacterial community and dynamics. <i>Science of the Total Environment</i> , 2018 , 633, 360-371	10.2	25
156	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. <i>Science of the Total Environment</i> , 2018 , 633, 300-307	10.2	133
155	Investigation of ferrous iron-involved anaerobic denitrification in three subtropical soils of southern China. <i>Journal of Soils and Sediments</i> , 2018 , 18, 1873-1883	3.4	5

154	Simultaneous measurement of bacterial abundance and composition in response to biochar in soybean field soil using 16S rRNA gene sequencing. <i>Land Degradation and Development</i> , 2018 , 29, 2172-2182	4.4	18
153	Zeolite-supported nanoscale zero-valent iron: New findings on simultaneous adsorption of Cd(II), Pb(II), and As(III) in aqueous solution and soil. <i>Journal of Hazardous Materials</i> , 2018 , 344, 1-11	12.8	289
152	Archaea and bacteria respectively dominate nitrification in lightly and heavily grazed soil in a grassland system. <i>Biology and Fertility of Soils</i> , 2018 , 54, 41-54	6.1	37
151	Genetic correlation network prediction of forest soil microbial functional organization. <i>ISME Journal</i> , 2018 , 12, 2492-2505	11.9	40
150	Inhibitory Effects of Sulfate and Nitrate Reduction on Reductive Dechlorination of PCP in a Flooded Paddy Soil. <i>Frontiers in Microbiology</i> , 2018 , 9, 567	5.7	17
149	Typical Soil Redox Processes in Pentachlorophenol Polluted Soil Following Biochar Addition. <i>Frontiers in Microbiology</i> , 2018 , 9, 579	5.7	19
148	Pentachlorophenol dissipation and ferrous iron accumulation in flooded paddy soils with contrasting organic matter contents and incorporation of legume green manures. <i>Journal of Soils and Sediments</i> , 2018 , 18, 2463-2475	3.4	2
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145	Assessing soil bacterial community and dynamics by integrated high-throughput absolute abundance quantification. <i>PeerJ</i> , 2018 , 6, e4514	3.1	39
144	The effects of different types of crop straw on the transformation of pentachlorophenol in flooded paddy soil. <i>Environmental Pollution</i> , 2018 , 233, 745-754	9.3	14
143	Soil fungal taxonomic and functional community composition as affected by biochar properties. <i>Soil Biology and Biochemistry</i> , 2018 , 126, 159-167	7.5	32
142	Effects of Cd, Cu, Zn and their combined action on microbial biomass and bacterial community structure. <i>Environmental Pollution</i> , 2018 , 243, 510-518	9.3	61
141	Microbial pathways for nitrous oxide emissions from sheep urine and dung in a typical steppe grassland. <i>Biology and Fertility of Soils</i> , 2018 , 54, 717-730	6.1	30
140	Taxon-specific responses of soil microbial communities to different soil priming effects induced by addition of plant residues and their biochars. <i>Journal of Soils and Sediments</i> , 2017 , 17, 674-684	3.4	42
139	Combined biochar and nitrogen fertilizer reduces soil acidity and promotes nutrient use efficiency by soybean crop. <i>Journal of Soils and Sediments</i> , 2017 , 17, 599-610	3.4	29
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116	Complete genome sequence of <i>Massilia</i> sp. WG5, an efficient phenanthrene-degrading bacterium from soil. <i>Journal of Biotechnology</i> , 2016 , 218, 49-50	3.7	20
115	Assessing adsorption of polycyclic aromatic hydrocarbons on <i>Rhizopus oryzae</i> cell wall components with water-methanol cosolvent model. <i>Ecotoxicology and Environmental Safety</i> , 2016 , 125, 55-60	7	10
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2	Promoted reductive removal of chlorinated organic pollutants co-occurring with facilitated methanogenesis in anaerobic environment: A systematic review and meta-analysis. <i>Critical Reviews in Environmental Science and Technology</i> , 1-28	11.1	4
1	Biochar accelerates soil organic carbon mineralization via rhizodeposit-activated Actinobacteria. <i>Biology and Fertility of Soils</i> , 1	6.1	1