

# Yong-Guan Zhu

## List of Publications by Citations

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631  
papers

45,023  
citations

111  
h-index

185  
g-index

666  
ext. papers

54,790  
ext. citations

8.3  
avg, IF

7.91  
L-index

#	Paper	IF	Citations
631	Diverse and abundant antibiotic resistance genes in Chinese swine farms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 3435-40	11.5	1416
630	Health risks of heavy metals in contaminated soils and food crops irrigated with wastewater in Beijing, China. <i>Environmental Pollution</i> , <b>2008</b> , 152, 686-92	9.3	1366
629	Soil contamination in China: current status and mitigation strategies. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 750-9	10.3	988
628	Quantitative analyses of the abundance and composition of ammonia-oxidizing bacteria and ammonia-oxidizing archaea of a Chinese upland red soil under long-term fertilization practices. <i>Environmental Microbiology</i> , <b>2007</b> , 9, 2364-74	5.2	755
627	Mechanisms of silicon-mediated alleviation of abiotic stresses in higher plants: a review. <i>Environmental Pollution</i> , <b>2007</b> , 147, 422-8	9.3	693
626	Using the class 1 integron-integrase gene as a proxy for anthropogenic pollution. <i>ISME Journal</i> , <b>2015</b> , 9, 1269-79	11.9	643
625	Review of antibiotic resistance in China and its environment. <i>Environment International</i> , <b>2018</b> , 110, 160-172	9	635
624	Geographical variation in total and inorganic arsenic content of polished (white) rice. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 1612-7	10.3	558
623	Continental-scale pollution of estuaries with antibiotic resistance genes. <i>Nature Microbiology</i> , <b>2017</b> , 2, 16270	26.6	530
622	Antibiotic resistome and its association with bacterial communities during sewage sludge composting. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 7356-63	10.3	526
621	Transfer of metals from soil to vegetables in an area near a smelter in Nanning, China. <i>Environment International</i> , <b>2004</b> , 30, 785-91	12.9	512
620	Management options for reducing the release of antibiotics and antibiotic resistance genes to the environment. <i>Environmental Health Perspectives</i> , <b>2013</b> , 121, 878-85	8.4	505
619	Abundance and composition of ammonia-oxidizing bacteria and ammonia-oxidizing archaea communities of an alkaline sandy loam. <i>Environmental Microbiology</i> , <b>2008</b> , 10, 1601-11	5.2	430
618	Long-term field application of sewage sludge increases the abundance of antibiotic resistance genes in soil. <i>Environment International</i> , <b>2016</b> , 92-93, 1-10	12.9	425
617	Increase in rice grain arsenic for regions of Bangladesh irrigating paddies with elevated arsenic in groundwaters. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 4903-8	10.3	405
616	Selenium in higher plants: understanding mechanisms for biofortification and phytoremediation. <i>Trends in Plant Science</i> , <b>2009</b> , 14, 436-42	13.1	394
615	An inventory of trace element inputs to agricultural soils in China. <i>Journal of Environmental Management</i> , <b>2009</b> , 90, 2524-30	7.9	393

614	Occurrence and partitioning of cadmium, arsenic and lead in mine impacted paddy rice: Hunan, China. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 637-42	10.3	361
613	Trace metal contamination in urban soils of China. <i>Science of the Total Environment</i> , <b>2012</b> , 421-422, 17-30	10.2	353
612	High percentage inorganic arsenic content of mining impacted and nonimpacted Chinese rice. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 5008-13	10.3	346
611	Arsenic sequestration in iron plaque, its accumulation and speciation in mature rice plants ( <i>Oryza sativa</i> L.). <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 5730-6	10.3	331
610	Plant uptake of radiocaesium: a review of mechanisms, regulation and application. <i>Journal of Experimental Botany</i> , <b>2000</b> , 51, 1635-45	7	331
609	Sewage sludge biochar influence upon rice ( <i>Oryza sativa</i> L) yield, metal bioaccumulation and greenhouse gas emissions from acidic paddy soil. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 8624-32	10.3	328
608	Biochar impacts soil microbial community composition and nitrogen cycling in an acidic soil planted with rape. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 9391-9	10.3	305
607	Earth Abides Arsenic Biotransformations. <i>Annual Review of Earth and Planetary Sciences</i> , <b>2014</b> , 42, 443-467	10.3	304
606	Ammonia-oxidizing archaea: important players in paddy rhizosphere soil?. <i>Environmental Microbiology</i> , <b>2008</b> , 10, 1978-87	5.2	302
605	Exposure to inorganic arsenic from rice: a global health issue?. <i>Environmental Pollution</i> , <b>2008</b> , 154, 169-70	10.3	298
604	Speciation and localization of arsenic in white and brown rice grains. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 1051-7	10.3	284
603	Variation in rice cadmium related to human exposure. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 5613-8	10.3	274
602	Abundance and diversity of tetracycline resistance genes in soils adjacent to representative swine feedlots in China. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 6933-9	10.3	264
601	Exposure of soil collembolans to microplastics perturbs their gut microbiota and alters their isotopic composition. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 116, 302-310	7.5	260
600	High throughput profiling of antibiotic resistance genes in urban park soils with reclaimed water irrigation. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 9079-85	10.3	255
599	Do phosphorus nutrition and iron plaque alter arsenate (As) uptake by rice seedlings in hydroponic culture?. <i>New Phytologist</i> , <b>2004</b> , 162, 481-488	9.8	254
598	Inorganic arsenic in Chinese food and its cancer risk. <i>Environment International</i> , <b>2011</b> , 37, 1219-25	12.9	251
597	Inorganic arsenic in rice bran and its products are an order of magnitude higher than in bulk grain. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 7542-6	10.3	247

596	Direct evidence showing the effect of root surface iron plaque on arsenite and arsenate uptake into rice ( <i>Oryza sativa</i> ) roots. <i>New Phytologist</i> , <b>2005</b> , 165, 91-7	9.8	245
595	Carbon cycling by arbuscular mycorrhizal fungi in soil-plant systems. <i>Trends in Plant Science</i> , <b>2003</b> , 8, 407-13	13.1	238
594	Contamination of polycyclic aromatic hydrocarbons (PAHs) in urban soils in Beijing, China. <i>Environment International</i> , <b>2005</b> , 31, 822-8	12.9	232
593	Vacuolar compartmentalization: a second-generation approach to engineering plants for phytoremediation. <i>Trends in Plant Science</i> , <b>2004</b> , 9, 7-9	13.1	225
592	Do iron plaque and genotypes affect arsenate uptake and translocation by rice seedlings ( <i>Oryza sativa</i> L.) grown in solution culture?. <i>Journal of Experimental Botany</i> , <b>2004</b> , 55, 1707-13	7	219
591	Centennial-scale analysis of the creation and fate of reactive nitrogen in China (1910-2010). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 2052-7	11.5	211
590	Methylated arsenic species in rice: geographical variation, origin, and uptake mechanisms. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 3957-66	10.3	205
589	Speciation and distribution of arsenic and localization of nutrients in rice grains. <i>New Phytologist</i> , <b>2009</b> , 184, 193-201	9.8	202
588	Exposure to metal mixtures and human health impacts in a contaminated area in Nanning, China. <i>Environment International</i> , <b>2005</b> , 31, 784-90	12.9	199
587	Antibiotic resistance genes in manure-amended soil and vegetables at harvest. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 299, 215-21	12.8	185
586	Accumulation of polycyclic aromatic hydrocarbons and heavy metals in lettuce grown in the soils contaminated with long-term wastewater irrigation. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 152, 506-15	12.8	185
585	Hyperthermophilic Composting Accelerates the Removal of Antibiotic Resistance Genes and Mobile Genetic Elements in Sewage Sludge. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 266-276	10.3	185
584	The veterinary antibiotic oxytetracycline and Cu influence functional diversity of the soil microbial community. <i>Environmental Pollution</i> , <b>2006</b> , 143, 129-37	9.3	178
583	Role of salicylic acid in alleviating oxidative damage in rice roots ( <i>Oryza sativa</i> ) subjected to cadmium stress. <i>Environmental Pollution</i> , <b>2007</b> , 147, 743-9	9.3	177
582	Arbuscular mycorrhizal fungi contribute to phosphorus uptake by wheat grown in a phosphorus-fixing soil even in the absence of positive growth responses. <i>New Phytologist</i> , <b>2006</b> , 172, 536-43	9.8	173
581	Microbial arsenic methylation in soil and rice rhizosphere. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 3141-8	10.3	172
580	Arsenic biomethylation by photosynthetic organisms. <i>Trends in Plant Science</i> , <b>2012</b> , 17, 155-62	13.1	168
579	Microbial mass movements. <i>Science</i> , <b>2017</b> , 357, 1099-1100	33.3	162

578	Antimony (Sb) and arsenic (As) in Sb mining impacted paddy soil from Xikuangshan, China: differences in mechanisms controlling soil sequestration and uptake in rice. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 3155-62	10.3	162
577	Selenium characterization in the global rice supply chain. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 6024-30	10.3	162
576	Toxicity of arsenate and arsenite on germination, seedling growth and amyolytic activity of wheat. <i>Chemosphere</i> , <b>2005</b> , 61, 293-301	8.4	162
575	Metagenomics of urban sewage identifies an extensively shared antibiotic resistome in China. <i>Microbiome</i> , <b>2017</b> , 5, 84	16.6	161
574	Exposure to nanoplastics disturbs the gut microbiome in the soil oligochaete <i>Enchytraeus crypticus</i> . <i>Environmental Pollution</i> , <b>2018</b> , 239, 408-415	9.3	161
573	Distribution, speciation and availability of antimony (Sb) in soils and terrestrial plants from an active Sb mining area. <i>Environmental Pollution</i> , <b>2011</b> , 159, 2427-34	9.3	160
572	Characterization of arsenate reductase in the extract of roots and fronds of Chinese brake fern, an arsenic hyperaccumulator. <i>Plant Physiology</i> , <b>2005</b> , 138, 461-9	6.6	160
571	Nitrogen loss through anaerobic ammonium oxidation coupled to iron reduction from paddy soils in a chronosequence. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 10641-7	10.3	157
570	Multivariate and geostatistical analyses of the spatial distribution and source of arsenic and heavy metals in the agricultural soils in Shunde, Southeast China. <i>Journal of Geochemical Exploration</i> , <b>2015</b> , 148, 189-195	3.8	154
569	Biotransformation and volatilization of arsenic by three photosynthetic cyanobacteria. <i>Plant Physiology</i> , <b>2011</b> , 156, 1631-8	6.6	154
568	Inorganic arsenic levels in baby rice are of concern. <i>Environmental Pollution</i> , <b>2008</b> , 152, 746-9	9.3	154
567	Uptake of oxytetracycline and its phytotoxicity to alfalfa ( <i>Medicago sativa</i> L.). <i>Environmental Pollution</i> , <b>2007</b> , 147, 187-93	9.3	153
566	Spatial scale affects the relative role of stochasticity versus determinism in soil bacterial communities in wheat fields across the North China Plain. <i>Microbiome</i> , <b>2018</b> , 6, 27	16.6	152
565	A CDC25 homologue from rice functions as an arsenate reductase. <i>New Phytologist</i> , <b>2007</b> , 174, 311-321	9.8	150
564	The role of biochar properties in influencing the sorption and desorption of Pb(II), Cd(II) and As(III) in aqueous solution. <i>Journal of Cleaner Production</i> , <b>2017</b> , 148, 127-136	10.3	149
563	Ecotoxicological assessment of antibiotics: A call for improved consideration of microorganisms. <i>Environment International</i> , <b>2015</b> , 85, 189-205	12.9	145
562	Toward a Comprehensive Strategy to Mitigate Dissemination of Environmental Sources of Antibiotic Resistance. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 13061-13069	10.3	144
561	Importance of plant species and external silicon concentration to active silicon uptake and transport. <i>New Phytologist</i> , <b>2006</b> , 172, 63-72	9.8	144

560	Linking Genes to Microbial Biogeochemical Cycling: Lessons from Arsenic. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 7326-7339	10.3	142
559	Ground-level ozone in China: distribution and effects on crop yields. <i>Environmental Pollution</i> , <b>2007</b> , 147, 394-400	9.3	142
558	Linking Urbanization and the Environment: Conceptual and Empirical Advances. <i>Annual Review of Environment and Resources</i> , <b>2017</b> , 42, 215-240	17.2	141
557	Global Survey of Antibiotic Resistance Genes in Air. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 10975-10984	10.3	138
556	Does organically produced lettuce harbor higher abundance of antibiotic resistance genes than conventionally produced?. <i>Environment International</i> , <b>2017</b> , 98, 152-159	12.9	138
555	Health risk assessment of heavy metals in soils and vegetables from wastewater irrigated area, Beijing-Tianjin city cluster, China. <i>Journal of Environmental Sciences</i> , <b>2012</b> , 24, 690-8	6.4	136
554	Utilization of urban sewage sludge: Chinese perspectives. <i>Environmental Science and Pollution Research</i> , <b>2012</b> , 19, 1454-63	5.1	136
553	Differences in soil bacterial diversity: driven by contemporary disturbances or historical contingencies?. <i>ISME Journal</i> , <b>2008</b> , 2, 254-64	11.9	136
552	Effects of Iron and Manganese Plaques on Arsenic Uptake by Rice Seedlings ( <i>Oryza sativa</i> L.) Grown in Solution Culture Supplied with Arsenate and Arsenite. <i>Plant and Soil</i> , <b>2005</b> , 277, 127-138	4.2	136
551	Highly efficient xylem transport of arsenite in the arsenic hyperaccumulator <i>Pteris vittata</i> . <i>New Phytologist</i> , <b>2008</b> , 180, 434-441	9.8	135
550	Long-term balanced fertilization increases the soil microbial functional diversity in a phosphorus-limited paddy soil. <i>Molecular Ecology</i> , <b>2015</b> , 24, 136-50	5.7	134
549	Diversity and abundance of arsenic biotransformation genes in paddy soils from southern China. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 4138-46	10.3	134
548	Effects of the arbuscular mycorrhizal fungus <i>Glomus mosseae</i> on growth and metal uptake by four plant species in copper mine tailings. <i>Environmental Pollution</i> , <b>2007</b> , 147, 374-80	9.3	134
547	Genome wide association mapping of grain arsenic, copper, molybdenum and zinc in rice ( <i>Oryza sativa</i> L.) grown at four international field sites. <i>PLoS ONE</i> , <b>2014</b> , 9, e89685	3.7	132
546	Sulfur (S)-induced enhancement of iron plaque formation in the rhizosphere reduces arsenic accumulation in rice ( <i>Oryza sativa</i> L.) seedlings. <i>Environmental Pollution</i> , <b>2007</b> , 147, 387-93	9.3	132
545	Phosphorus (P) efficiencies and mycorrhizal responsiveness of old and modern wheat cultivars. <i>Plant and Soil</i> , <b>2001</b> , 237, 249-255	4.2	130
544	Application of biochar to soil reduces cancer risk via rice consumption: a case study in Miaoqian village, Longyan, China. <i>Environment International</i> , <b>2014</b> , 68, 154-61	12.9	129
543	Survey of arsenic and its speciation in rice products such as breakfast cereals, rice crackers and Japanese rice condiments. <i>Environment International</i> , <b>2009</b> , 35, 473-5	12.9	129

542	Electron Shuttles Enhance Anaerobic Ammonium Oxidation Coupled to Iron(III) Reduction. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 9298-307	10.3	127
541	Arsenic uptake by rice is influenced by microbe-mediated arsenic redox changes in the rhizosphere. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 1001-7	10.3	126
540	Arsenic methylation in soils and its relationship with microbial arsM abundance and diversity, and as speciation in rice. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 7147-54	10.3	125
539	Environmental and genetic control of arsenic accumulation and speciation in rice grain: comparing a range of common cultivars grown in contaminated sites across Bangladesh, China, and India. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 8381-6	10.3	125
538	Clusters of Antibiotic Resistance Genes Enriched Together Stay Together in Swine Agriculture. <i>MBio</i> , <b>2016</b> , 7, e02214-15	7.8	125
537	Soil to plant transfer of <sup>238</sup> U, <sup>226</sup> Ra and <sup>232</sup> Th on a uranium mining-impacted soil from southeastern China. <i>Journal of Environmental Radioactivity</i> , <b>2005</b> , 82, 223-36	2.4	124
536	Application of Struvite Alters the Antibiotic Resistome in Soil, Rhizosphere, and Phyllosphere. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 8149-8157	10.3	123
535	Mapping QTLs for nitrogen uptake in relation to the early growth of wheat ( <i>Triticum aestivum</i> L.). <i>Plant and Soil</i> , <b>2006</b> , 284, 73-84	4.2	122
534	Soil contamination with radionuclides and potential remediation. <i>Chemosphere</i> , <b>2000</b> , 41, 121-8	8.4	122
533	Functional metagenomic characterization of antibiotic resistance genes in agricultural soils from China. <i>Environment International</i> , <b>2014</b> , 65, 9-15	12.9	120
532	Arsenic speciation and volatilization from flooded paddy soils amended with different organic matters. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 2163-8	10.3	120
531	Arsenic bioavailability to rice is elevated in Bangladeshi paddy soils. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 8515-21	10.3	119
530	The effect of ageing on the bioaccessibility and fractionation of cadmium in some typical soils of China. <i>Environment International</i> , <b>2006</b> , 32, 682-9	12.9	119
529	Rhizosphere microorganisms can influence the timing of plant flowering. <i>Microbiome</i> , <b>2018</b> , 6, 231	16.6	119
528	Behavior of antibiotics and antibiotic resistance genes in eco-agricultural system: A case study. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 304, 18-25	12.8	118
527	The arbuscular mycorrhizal fungus <i>Glomus mosseae</i> gives contradictory effects on phosphorus and arsenic acquisition by <i>Medicago sativa</i> Linn. <i>Science of the Total Environment</i> , <b>2007</b> , 379, 226-34	10.2	118
526	Impact of reclaimed water irrigation on antibiotic resistance in public parks, Beijing, China. <i>Environmental Pollution</i> , <b>2014</b> , 184, 247-53	9.3	115
525	Arsenic accumulation and speciation in rice are affected by root aeration and variation of genotypes. <i>Journal of Experimental Botany</i> , <b>2011</b> , 62, 2889-98	7	114

524	Imaging element distribution and speciation in plant cells. <i>Trends in Plant Science</i> , <b>2014</b> , 19, 183-92	13.1	113
523	Understanding and harnessing the health effects of rapid urbanization in China. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 5099-104	10.3	112
522	Relationships between soil characteristics, topography and plant diversity in a heterogeneous deciduous broad-leaved forest near Beijing, China. <i>Plant and Soil</i> , <b>2004</b> , 261, 47-54	4.2	112
521	Iodine uptake by spinach ( <i>Spinacia oleracea</i> L.) plants grown in solution culture: effects of iodine species and solution concentrations. <i>Environment International</i> , <b>2003</b> , 29, 33-7	12.9	112
520	Pathways and relative contributions to arsenic volatilization from rice plants and paddy soil. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 8090-6	10.3	111
519	Influence of the arbuscular mycorrhizal fungus <i>Glomus mosseae</i> on uptake of arsenate by the As hyperaccumulator fern <i>Pteris vittata</i> L. <i>Mycorrhiza</i> , <b>2005</b> , 15, 187-92	3.9	109
518	A novel sediment microbial fuel cell with a biocathode in the rice rhizosphere. <i>Bioresource Technology</i> , <b>2012</b> , 108, 55-9	11	108
517	Variation in grain arsenic assessed in a diverse panel of rice ( <i>Oryza sativa</i> ) grown in multiple sites. <i>New Phytologist</i> , <b>2012</b> , 193, 650-664	9.8	108
516	Does salicylic acid regulate antioxidant defense system, cell death, cadmium uptake and partitioning to acquire cadmium tolerance in rice?. <i>Journal of Plant Physiology</i> , <b>2009</b> , 166, 20-31	3.6	108
515	A review on completing arsenic biogeochemical cycle: microbial volatilization of arsines in environment. <i>Journal of Environmental Sciences</i> , <b>2014</b> , 26, 371-81	6.4	107
514	Spatial distribution of arsenic and temporal variation of its concentration in rice. <i>New Phytologist</i> , <b>2011</b> , 189, 200-9	9.8	106
513	Antibiotic Resistomes in Plant Microbiomes. <i>Trends in Plant Science</i> , <b>2019</b> , 24, 530-541	13.1	105
512	Do manure-borne or indigenous soil microorganisms influence the spread of antibiotic resistance genes in manured soil?. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 114, 229-237	7.5	102
511	Arsenic biotransformation and volatilization in transgenic rice. <i>New Phytologist</i> , <b>2011</b> , 191, 49-56	9.8	102
510	Rare microbial taxa as the major drivers of ecosystem multifunctionality in long-term fertilized soils. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 141, 107686	7.5	102
509	Antibiotic resistance genes and associated bacterial communities in agricultural soils amended with different sources of animal manures. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 126, 91-102	7.5	102
508	Arbuscular mycorrhiza enhanced arsenic resistance of both white clover ( <i>Trifolium repens</i> Linn.) and ryegrass ( <i>Lolium perenne</i> L.) plants in an arsenic-contaminated soil. <i>Environmental Pollution</i> , <b>2008</b> , 155, 174-81	9.3	99
507	The effects of sand stabilization and revegetation on cryptogam species diversity and soil fertility in the Tengger Desert, Northern China. <i>Plant and Soil</i> , <b>2003</b> , 251, 237-245	4.2	99



506	Effect of silicate on the growth and arsenate uptake by rice ( <i>Oryza sativa</i> L.) seedlings in solution culture. <i>Plant and Soil</i> , <b>2005</b> , 272, 173-181	4.2	99
505	Influence of humans on evolution and mobilization of environmental antibiotic resistome. <i>Emerging Infectious Diseases</i> , <b>2013</b> , 19,	10.2	99
504	Potential ecological footprints of active pharmaceutical ingredients: an examination of risk factors in low-, middle- and high-income countries. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2014</b> , 369,	5.8	98
503	Biochar Modulates Methanogenesis through Electron Syntrophy of Microorganisms with Ethanol as a Substrate. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 12198-12207	10.3	98
502	Potential contribution of anammox to nitrogen loss from paddy soils in Southern China. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 938-47	4.8	97
501	Long-term nitrogen fertilization of paddy soil shifts iron-reducing microbial community revealed by RNA-(13)C-acetate probing coupled with pyrosequencing. <i>ISME Journal</i> , <b>2015</b> , 9, 721-34	11.9	96
500	Arsenic Transport in Rice and Biological Solutions to Reduce Arsenic Risk from Rice. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 268	6.2	94
499	Uptake of mercury (Hg) by seedlings of rice ( <i>Oryza sativa</i> L.) grown in solution culture and interactions with arsenate uptake. <i>Environmental and Experimental Botany</i> , <b>2005</b> , 54, 1-7	5.9	94
498	Antibiotics Disturb the Microbiome and Increase the Incidence of Resistance Genes in the Gut of a Common Soil Collembolan. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 3081-3090	10.3	93
497	Tracking antibiotic resistome during wastewater treatment using high throughput quantitative PCR. <i>Environment International</i> , <b>2018</b> , 117, 146-153	12.9	93
496	Do radial oxygen loss and external aeration affect iron plaque formation and arsenic accumulation and speciation in rice?. <i>Journal of Experimental Botany</i> , <b>2012</b> , 63, 2961-70	7	93
495	The ageing effect on the bioaccessibility and fractionation of arsenic in soils from China. <i>Chemosphere</i> , <b>2007</b> , 66, 1183-90	8.4	93
494	Control of cell proliferation, organ growth, and DNA damage response operate independently of dephosphorylation of the Arabidopsis Cdk1 homolog CDKA;1. <i>Plant Cell</i> , <b>2009</b> , 21, 3641-54	11.6	92
493	Evidence for co-selection of antibiotic resistance genes and mobile genetic elements in metal polluted urban soils. <i>Science of the Total Environment</i> , <b>2019</b> , 656, 512-520	10.2	92
492	Arsenic uptake and speciation in the rootless duckweed <i>Wolffia globosa</i> . <i>New Phytologist</i> , <b>2009</b> , 182, 421-428	9.8	91
491	Temporal change in land use and its relationship to slope degree and soil type in a small catchment on the Loess Plateau of China. <i>Catena</i> , <b>2006</b> , 65, 41-48	5.8	91
490	Distribution and translocation of selenium from soil to grain and its speciation in paddy rice ( <i>Oryza sativa</i> L.). <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 6706-11	10.3	90
489	Which ornamental plant species effectively remove benzene from indoor air?. <i>Atmospheric Environment</i> , <b>2007</b> , 41, 650-654	5.3	90

488	Uptake of Zn by arbuscular mycorrhizal white clover from Zn-contaminated soil. <i>Chemosphere</i> , <b>2001</b> , 42, 193-9	8.4	90
487	Effect of long-term wastewater irrigation on potential denitrification and denitrifying communities in soils at the watershed scale. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 3105-13	10.3	89
486	Trophic predator-prey relationships promote transport of microplastics compared with the single <i>Hypoaspis aculeifer</i> and <i>Folsomia candida</i> . <i>Environmental Pollution</i> , <b>2018</b> , 235, 150-154	9.3	88
485	Effects of soil amendments on lead uptake by two vegetable crops from a lead-contaminated soil from Anhui, China. <i>Environment International</i> , <b>2004</b> , 30, 351-6	12.9	88
484	Mapping quantitative trait loci associated with arsenic accumulation in rice ( <i>Oryza sativa</i> ). <i>New Phytologist</i> , <b>2008</b> , 177, 350-356	9.8	87
483	Assessment of the bioaccessibility of polycyclic aromatic hydrocarbons in soils from Beijing using an in vitro test. <i>Environmental Pollution</i> , <b>2006</b> , 140, 279-85	9.3	87
482	Soil biota, antimicrobial resistance and planetary health. <i>Environment International</i> , <b>2019</b> , 131, 105059	12.9	86
481	Suppressed N fixation and diazotrophs after four decades of fertilization. <i>Microbiome</i> , <b>2019</b> , 7, 143	16.6	86
480	Adsorption and desorption of iodine by various Chinese soils: II. Iodide and iodate. <i>Geoderma</i> , <b>2009</b> , 153, 130-135	6.7	85
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478	Perspectives for genetic engineering for the phytoremediation of arsenic-contaminated environments: from imagination to reality?. <i>Current Opinion in Biotechnology</i> , <b>2009</b> , 20, 220-4	11.4	84
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476	Molecular Chemodiversity of Dissolved Organic Matter in Paddy Soils. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 963-971	10.3	82
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474	Back to the Future of Soil Metagenomics. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 73	5.7	82
473	The effect of grain size of rock phosphate amendment on metal immobilization in contaminated soils. <i>Journal of Hazardous Materials</i> , <b>2006</b> , 134, 74-9	12.8	81
472	Phosphate levels influence the utilisation of rice rhizodeposition carbon and the phosphate-solubilising microbial community in a paddy soil. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 118, 103-114	7.5	80
471	Arsenic limits trace mineral nutrition (selenium, zinc, and nickel) in Bangladesh rice grain. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 8430-6	10.3	80

470	Host selection shapes crop microbiome assembly and network complexity. <i>New Phytologist</i> , <b>2021</b> , 229, 1091-1104	9.8	80
469	Uptake of selected PAHs from contaminated soils by rice seedlings ( <i>Oryza sativa</i> ) and influence of rhizosphere on PAH distribution. <i>Environmental Pollution</i> , <b>2008</b> , 155, 359-65	9.3	79
468	Is the effect of silicon on rice uptake of arsenate (AsV) related to internal silicon concentrations, iron plaque and phosphate nutrition?. <i>Environmental Pollution</i> , <b>2007</b> , 148, 251-7	9.3	79
467	Understanding drivers of antibiotic resistance genes in High Arctic soil ecosystems. <i>Environment International</i> , <b>2019</b> , 125, 497-504	12.9	78
466	Long-Term Impact of Field Applications of Sewage Sludge on Soil Antibiotic Resistome. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 12602-12611	10.3	78
465	Nitrogen loss by anaerobic oxidation of ammonium in rice rhizosphere. <i>ISME Journal</i> , <b>2015</b> , 9, 2059-67	11.9	78
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463	Association of arsenic with nutrient elements in rice plants. <i>Metallomics</i> , <b>2013</b> , 5, 784-92	4.5	78
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459	Effects of forms and rates of potassium fertilizers on cadmium uptake by two cultivars of spring wheat ( <i>Triticum aestivum</i> , L.). <i>Environment International</i> , <b>2004</b> , 29, 973-8	12.9	77
458	Volatilization of arsenic from polluted soil by <i>Pseudomonas putida</i> engineered for expression of the arsM Arsenic(III) S-adenosine methyltransferase gene. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 10337-44	10.3	76
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456	Lead and cadmium in leaves of deciduous trees in Beijing, China: development of a metal accumulation index (MAI). <i>Environmental Pollution</i> , <b>2007</b> , 145, 387-90	9.3	76
455	Contrasting phosphate acquisition of mycorrhizal fungi with that of root hairs using the root hairless barley mutant. <i>Plant, Cell and Environment</i> , <b>2005</b> , 28, 928-938	8.4	76
454	An aquaporin PvTIP4;1 from <i>Pteris vittata</i> may mediate arsenite uptake. <i>New Phytologist</i> , <b>2016</b> , 209, 746-61	9.8	76
453	Metagenomic analysis revealed highly diverse microbial arsenic metabolism genes in paddy soils with low-arsenic contents. <i>Environmental Pollution</i> , <b>2016</b> , 211, 1-8	9.3	75

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451	Anaerobic oxidation of ethane by archaea from a marine hydrocarbon seep. <i>Nature</i> , <b>2019</b> , 568, 108-111	50.4	74
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449	Transport mechanisms for the uptake of organic compounds by rice ( <i>Oryza sativa</i> ) roots. <i>Environmental Pollution</i> , <b>2007</b> , 148, 94-100	9.3	73
448	Effect of bone char application on Pb bioavailability in a Pb-contaminated soil. <i>Environmental Pollution</i> , <b>2006</b> , 139, 433-9	9.3	73
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445	Evidence for a role of phytochelatins in regulating arsenic accumulation in rice grain. <i>Environmental and Experimental Botany</i> , <b>2011</b> , 71, 416-416	5.9	71
444	Zinc (Zn)-phosphorus (P) Interactions in Two Cultivars of Spring Wheat ( <i>Triticum aestivum</i> L.) Differing in P Uptake Efficiency. <i>Annals of Botany</i> , <b>2001</b> , 88, 941-945	4.1	71
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442	Characterization of Pb, Cu, and Cd adsorption on particulate organic matter in soil. <i>Environmental Toxicology and Chemistry</i> , <b>2006</b> , 25, 2366-73	3.8	70
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440	Engineering the soil bacterium <i>Pseudomonas putida</i> for arsenic methylation. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 4493-5	4.8	68
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437	Phosphorus efficiencies and responses of barley ( <i>Hordeum vulgare</i> L.) to arbuscular mycorrhizal fungi grown in highly calcareous soil. <i>Mycorrhiza</i> , <b>2003</b> , 13, 93-100	3.9	68
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434	Uptake and acropetal translocation of polycyclic aromatic hydrocarbons by wheat ( <i>Triticum aestivum</i> L.) grown in field-contaminated soil. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 3556-60	10.3	67
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422	Standardization of complex biologically derived spectrochemical datasets. <i>Nature Protocols</i> , <b>2019</b> , 14, 1546-1577	18.8	61
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361	Arsenate (As) uptake by and distribution in two cultivars of winter wheat ( <i>Triticum aestivum</i> L.). <i>Chemosphere</i> , <b>2006</b> , 62, 608-15	8.4	42
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