

Yong-Guan Zhu

List of Publications by Year in Descending Order

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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.

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	Identification of the rhizosphere microbes that actively consume plant-derived carbon. <i>Soil Biology and Biochemistry</i> , 2022 , 166, 108577	7.5	0
630	Nanopore sequencing analysis of integron gene cassettes in sewages and soils.. <i>Science of the Total Environment</i> , 2022 , 817, 152766	10.2	0
629	The ecological clusters of soil organisms drive the ecosystem multifunctionality under long-term fertilization.. <i>Environment International</i> , 2022 , 161, 107133	12.9	3
628	Antibiotic resistance genes and antibiotic sensitivity in bacterial aerosols and their comparisons with known respiratory pathogens. <i>Journal of Aerosol Science</i> , 2022 , 161, 105931	4.3	3
627	Host age increased conjugal plasmid transfer in gut microbiota of the soil invertebrate <i>Caenorhabditis elegans</i> . <i>Journal of Hazardous Materials</i> , 2022 , 424, 127525	12.8	2
626	Long-term combined application of chemical fertilizers and organic manure shapes the gut microbial diversity and functional community structures of earthworms. <i>Applied Soil Ecology</i> , 2022 , 170, 104250	5	0
625	Profiling the antibiotic resistome in soils between pristine and human-affected sites on the Tibetan Plateau.. <i>Journal of Environmental Sciences</i> , 2022 , 111, 442-451	6.4	0
624	The chemical-microbial release and transformation of arsenic induced by citric acid in paddy soil. <i>Journal of Hazardous Materials</i> , 2022 , 421, 126731	12.8	2
623	Metabolic responses of indigenous bacteria in chicken faeces and maggots to multiple antibiotics via heavy water labeled single-cell Raman spectroscopy.. <i>Journal of Environmental Sciences</i> , 2022 , 113, 394-402	6.4	1
622	Variations of earthworm gut bacterial community composition and metabolic functions in coastal upland soil along a 700-year reclamation chronosequence. <i>Science of the Total Environment</i> , 2022 , 804, 149994	10.2	1
621	Viral diversity and potential environmental risk in microplastic at watershed scale: Evidence from metagenomic analysis of plastisphere.. <i>Environment International</i> , 2022 , 161, 107146	12.9	0
620	Patterns and drivers of the degradability of dissolved organic matter in dryland soils on the Tibetan Plateau. <i>Journal of Applied Ecology</i> , 2022 , 59, 884-894	5.8	1
619	Influences of arsenate and/or phosphate adsorption to ferrihydrite on iron-reducing and arsenic-reducing microbial communities in paddy soil revealed by rRNA-13C-acetate probing. <i>Soil Biology and Biochemistry</i> , 2022 , 108679	7.5	0
618	How Different Nitrogen Fertilizers Affect Arsenic Mobility in Paddy Soil After Straw Incorporation?. <i>Journal of Hazardous Materials</i> , 2022 , 129135	12.8	1
617	Unveiling the role of dissolved organic matter on phosphorus sorption and availability in a 5-year manure amended paddy soil.. <i>Science of the Total Environment</i> , 2022 , 155892	10.2	1
616	Organic fertilizer potentiates the transfer of typical antibiotic resistance gene among special bacterial species.. <i>Journal of Hazardous Materials</i> , 2022 , 435, 128985	12.8	0
615	Impacts of global change on phyllosphere microbiome.. <i>New Phytologist</i> , 2021 ,	9.8	5

614	Build in prevention and preparedness to improve climate resilience in coastal cities: Lessons from China's GBA. <i>One Earth</i> , 2021 , 4, 1356-1360	8.1	1
613	Landscape of genes in hospital wastewater breaking through the defense line of last-resort antibiotics. <i>Water Research</i> , 2021 , 209, 117907	12.5	1
612	Controlling pathogenic risks of water treatment biotechnologies at the source by genetic editing means. <i>Environmental Microbiology</i> , 2021 ,	5.2	2
611	Discarded masks as hotspots of antibiotic resistance genes during COVID-19 pandemic. <i>Journal of Hazardous Materials</i> , 2021 , 127774	12.8	5
610	Powering biological nitrogen removal from the environment by geobatteries. <i>Trends in Biotechnology</i> , 2021 ,	15.1	2
609	Spatial and temporal dynamics of microbiomes and resistomes in broiler litter stockpiles.. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 6201-6211	6.8	0
608	Microbial communities on biodegradable plastics under different fertilization practices in farmland soil microcosms. <i>Science of the Total Environment</i> , 2021 , 809, 152184	10.2	2
607	How to build Urbanome, the genome of the city?. <i>Science of the Total Environment</i> , 2021 , 810, 152310	10.2	
606	Removal of potentially toxic elements from contaminated soil and water using bone char compared to plant- and bone-derived biochars: A review.. <i>Journal of Hazardous Materials</i> , 2021 , 427, 128131	12.8	7
605	Influence of Legacy Mercury on Antibiotic Resistomes: Evidence from Agricultural Soils with Different Cropping Systems. <i>Environmental Science & Technology</i> , 2021 , 55, 13913-13922	10.3	1
604	Fluoroquinolone antibiotics disturb the defense system, gut microbiome, and antibiotic resistance genes of <i>Enchytraeus crypticus</i> . <i>Journal of Hazardous Materials</i> , 2021 , 424, 127509	12.8	2
603	Does biological rhythm transmit from plants to rhizosphere microbes?. <i>Environmental Microbiology</i> , 2021 , 23, 6895-6906	5.2	1
602	Similar heterotrophic communities but distinct interactions supported by red and green-snow algae in the Antarctic Peninsula. <i>New Phytologist</i> , 2021 , 233, 1358	9.8	2
601	Technologies and perspectives for achieving carbon neutrality. <i>Innovation(China)</i> , 2021 , 2, 100180	17.8	37
600	Global meta-analysis of microplastic contamination in reservoirs with a novel framework. <i>Water Research</i> , 2021 , 207, 117828	12.5	5
599	Distribution, transfer, ecological and human health risks of antibiotics in bay ecosystems. <i>Environment International</i> , 2021 , 158, 106949	12.9	2
598	Will a Non-antibiotic Metalloid Enhance the Spread of Antibiotic Resistance Genes: The Selenate Story. <i>Environmental Science & Technology</i> , 2021 , 55, 1004-1014	10.3	11
597	Bacterial communities are more sensitive to ocean acidification than fungal communities in estuarine sediments. <i>FEMS Microbiology Ecology</i> , 2021 , 97,	4.3	1

596	Termite mounds reduce soil microbial diversity by filtering rare microbial taxa. <i>Environmental Microbiology</i> , 2021 , 23, 2659-2668	5.2	1
595	Potential of indigenous crop microbiomes for sustainable agriculture. <i>Nature Food</i> , 2021 , 2, 233-240	14.4	15
594	Biotic and abiotic factors distinctly drive contrasting biogeographic patterns between phyllosphere and soil resistomes in natural ecosystems. <i>ISME Communications</i> , 2021 , 1,		4
593	Soil-Food-Environment-Health Nexus for Sustainable Development. <i>Research</i> , 2021 , 2021, 9804807	7.8	3
592	Antibiotic resistance in the soil ecosystem: A One Health perspective. <i>Current Opinion in Environmental Science and Health</i> , 2021 , 20, 100230	8.1	12
591	Deciphering Potential Roles of Earthworms in Mitigation of Antibiotic Resistance in the Soils from Diverse Ecosystems. <i>Environmental Science & Technology</i> , 2021 , 55, 7445-7455	10.3	11
590	Developing Surrogate Markers for Predicting Antibiotic Resistance "Hot Spots" in Rivers Where Limited Data Are Available. <i>Environmental Science & Technology</i> , 2021 , 55, 7466-7478	10.3	6
589	Seasonal change is a major driver of soil resistomes at a watershed scale. <i>ISME Communications</i> , 2021 , 1,		2
588	Termite mound formation reduces the abundance and diversity of soil resistomes. <i>Environmental Microbiology</i> , 2021 ,	5.2	1
587	Impact of Urbanization on Antibiotic Resistome in Different Microplastics: Evidence from a Large-Scale Whole River Analysis. <i>Environmental Science & Technology</i> , 2021 , 55, 8760-8770	10.3	10
586	Super pathogens from environmental biotechnologies threaten global health. <i>National Science Review</i> , 2021 , 8, nwab110	10.8	2
585	Novel clades of soil biphenyl degraders revealed by integrating isotope probing, multi-omics, and single-cell analyses. <i>ISME Journal</i> , 2021 , 15, 3508-3521	11.9	0
584	Antibiotic exposure decreases soil arsenic oral bioavailability in mice by disrupting ileal microbiota and metabolic profile. <i>Environment International</i> , 2021 , 151, 106444	12.9	6
583	Agricultural land-use change and rotation system exert considerable influences on the soil antibiotic resistome in Lake Tai Basin. <i>Science of the Total Environment</i> , 2021 , 771, 144848	10.2	5
582	Vertical distribution of antibiotic resistance genes in an urban green facade. <i>Environment International</i> , 2021 , 152, 106502	12.9	8
581	Mycorrhiza and Iron Tailings Synergistically Enhance Maize Resistance to Arsenic on Medium Arsenic-Polluted Soils Through Increasing Phosphorus and Iron Uptake. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2021 , 107, 1155-1160	2.7	0
580	Arbuscular mycorrhizal fungi and plant diversity drive restoration of nitrogen-cycling microbial communities. <i>Molecular Ecology</i> , 2021 , 30, 4133-4146	5.7	4
579	Spatial patterns of urban green space and its actual utilization status in China based on big data analysis. <i>Big Earth Data</i> , 2021 , 5, 391-409	4.1	3

578	The co-evolution of life and organics on earth: Expansions of energy harnessing. <i>Critical Reviews in Environmental Science and Technology</i> , 2021 , 51, 603-625	11.1	2
577	Antibiotic resistome in the livestock and aquaculture industries: Status and solutions. <i>Critical Reviews in Environmental Science and Technology</i> , 2021 , 51, 2159-2196	11.1	30
576	Earthworm gut: An overlooked niche for anaerobic ammonium oxidation in agricultural soil. <i>Science of the Total Environment</i> , 2021 , 752, 141874	10.2	3
575	Co-selection of antibiotic resistance genes, and mobile genetic elements in the presence of heavy metals in poultry farm environments. <i>Science of the Total Environment</i> , 2021 , 755, 142702	10.2	28
574	Air pollution could drive global dissemination of antibiotic resistance genes. <i>ISME Journal</i> , 2021 , 15, 270-284	10.1	28
573	Rare taxa maintain the stability of crop mycobiomes and ecosystem functions. <i>Environmental Microbiology</i> , 2021 , 23, 1907-1924	5.2	29
572	Biodiversity of key-stone phylotypes determines crop production in a 4-decade fertilization experiment. <i>ISME Journal</i> , 2021 , 15, 550-561	11.9	47
571	Lessons learned from COVID-19 on potentially pathogenic soil microorganisms. <i>Soil Ecology Letters</i> , 2021 , 3, 1-5	2.7	9
570	Deterministic selection dominates microbial community assembly in termite mounds. <i>Soil Biology and Biochemistry</i> , 2021 , 152, 108073	7.5	10
569	Fates of Antibiotic Resistance Genes in the Gut Microbiome from Different Soil Fauna under Long-Term Fertilization. <i>Environmental Science & Technology</i> , 2021 , 55, 423-432	10.3	7
568	Metagenomic and C tracing evidence for autotrophic microbial CO fixation in paddy soils. <i>Environmental Microbiology</i> , 2021 , 23, 924-933	5.2	1
567	Host selection shapes crop microbiome assembly and network complexity. <i>New Phytologist</i> , 2021 , 229, 1091-1104	9.8	80
566	Evaluation of Microbe-Driven Soil Organic Matter Quantity and Quality by Thermodynamic Theory. <i>MBio</i> , 2021 , 12,	7.8	2
565	Herbicide Selection Promotes Antibiotic Resistance in Soil Microbiomes. <i>Molecular Biology and Evolution</i> , 2021 , 38, 2337-2350	8.3	18
564	Long-Term Fertilization Shapes the Putative Electrotrophic Microbial Community in Paddy Soils Revealed by Microbial Electrosynthesis Systems. <i>Environmental Science & Technology</i> , 2021 , 55, 3430-3441	10.3	8
563	Arsenic transformation and volatilization by arbuscular mycorrhizal symbiosis under axenic conditions. <i>Journal of Hazardous Materials</i> , 2021 , 413, 125390	12.8	4
562	High-Throughput Single-Cell Technology Reveals the Contribution of Horizontal Gene Transfer to Typical Antibiotic Resistance Gene Dissemination in Wastewater Treatment Plants. <i>Environmental Science & Technology</i> , 2021 , 55, 11824-11834	10.3	3
561	Paper-Based Devices As a New Tool for Rapid and on-Site Monitoring of "Superbugs". <i>Environmental Science & Technology</i> , 2021 , 55, 12133-12135	10.3	1

560	Environmental antimicrobial resistance is associated with faecal pollution in Central Thailand's coastal aquaculture region. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125718	12.8	7
559	Longitudinal study on the effects of growth-promoting and therapeutic antibiotics on the dynamics of chicken cloacal and litter microbiomes and resistomes. <i>Microbiome</i> , 2021 , 9, 178	16.6	3
558	Soil plastispheres as hotpots of antibiotic resistance genes and potential pathogens. <i>ISME Journal</i> , 2021 ,	11.9	12
557	Precipitation increases the abundance of fungal plant pathogens in Eucalyptus phyllosphere. <i>Environmental Microbiology</i> , 2021 ,	5.2	5
556	Stimulation of N ₂ O emission via bacterial denitrification driven by acidification in estuarine sediments. <i>Global Change Biology</i> , 2021 , 27, 5564-5579	11.4	6
555	High Arsenic Levels Increase Activity Rather than Diversity or Abundance of Arsenic Metabolism Genes in Paddy Soils. <i>Applied and Environmental Microbiology</i> , 2021 , 87, e0138321	4.8	0
554	Continental-Scale Paddy Soil Bacterial Community Structure, Function, and Biotic Interaction. <i>MSystems</i> , 2021 , 6, e0136820	7.6	0
553	Gammaproteobacteria, a core taxon in the guts of soil fauna, are potential responders to environmental concentrations of soil pollutants. <i>Microbiome</i> , 2021 , 9, 196	16.6	7
552	MoS Nanosheets-Cyanobacteria Interaction: Reprogrammed Carbon and Nitrogen Metabolism. <i>ACS Nano</i> , 2021 , 15, 16344-16356	16.7	3
551	Trophic level drives the host microbiome of soil invertebrates at a continental scale. <i>Microbiome</i> , 2021 , 9, 189	16.6	2
550	Raman biosensor and molecular tools for integrated monitoring of pathogens and antimicrobial resistance in wastewater. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 143, 116415	14.6	5
549	Insights into the roles of fungi and protist in the giant panda gut microbiome and antibiotic resistome. <i>Environment International</i> , 2021 , 155, 106703	12.9	5
548	Characterization of tetracycline-resistant microbiome in soil-plant systems by combination of HO-based DNA-Stable isotope probing and metagenomics. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126440	12.8	0
547	Viral Community and Virus-Associated Antibiotic Resistance Genes in Soils Amended with Organic Fertilizers. <i>Environmental Science & Technology</i> , 2021 , 55, 13881-13890	10.3	2
546	Warming-driven migration of core microbiota indicates soil property changes at continental scale. <i>Science Bulletin</i> , 2021 , 66, 2025-2035	10.6	1
545	How can fertilization regimes and durations shape earthworm gut microbiota in a long-term field experiment?. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 224, 112643	7	1
544	Combined pollution of arsenic and Polymyxin B enhanced arsenic toxicity and enriched ARG abundance in soil and earthworm gut microbiotas. <i>Journal of Environmental Sciences</i> , 2021 , 109, 171-180	6.4	4
543	Cyanobacterial blooms contribute to the diversity of antibiotic-resistance genes in aquatic ecosystems. <i>Communications Biology</i> , 2020 , 3, 737	6.7	14

542	Soil bacterial taxonomic diversity is critical to maintaining the plant productivity. <i>Environment International</i> , 2020 , 140, 105766	12.9	47
541	High starter phosphorus fertilization facilitates soil phosphorus turnover by promoting microbial functional interaction in an arable soil. <i>Journal of Environmental Sciences</i> , 2020 , 94, 179-185	6.4	8
540	Space Is More Important than Season when Shaping Soil Microbial Communities at a Large Spatial Scale. <i>MSystems</i> , 2020 , 5,	7.6	23
539	Dysbiosis in the Gut Microbiota of Soil Fauna Explains the Toxicity of Tire Tread Particles. <i>Environmental Science & Technology</i> , 2020 , 54, 7450-7460	10.3	28
538	Response to the commentary by M.W.C. Dharma-wardana on 'Chronic kidney disease of unknown etiology (CKDu): Using a system dynamics model to conceptualize the multiple environmental causative pathways of the epidemic'. <i>Science of the Total Environment</i> , 2020 , 721, 137591	10.2	
537	Dam Construction as an Important Anthropogenic Activity Disturbing Soil Organic Carbon in Affected Watersheds. <i>Environmental Science & Technology</i> , 2020 , 54, 7932-7941	10.3	2
536	Microbial functional traits in phyllosphere are more sensitive to anthropogenic disturbance than in soil. <i>Environmental Pollution</i> , 2020 , 265, 114954	9.3	13
535	Abundance, diversity, and structure of Geobacteraceae community in paddy soil under long-term fertilization practices. <i>Applied Soil Ecology</i> , 2020 , 153, 103577	5	10
534	Changes in the environmental microbiome in the Anthropocene. <i>Global Change Biology</i> , 2020 , 26, 3175-3177	11.7	15
533	The driving factors of nematode gut microbiota under long-term fertilization. <i>FEMS Microbiology Ecology</i> , 2020 , 96,	4.3	9
532	Abundance of kinless hubs within soil microbial networks are associated with high functional potential in agricultural ecosystems. <i>Environment International</i> , 2020 , 142, 105869	12.9	58
531	Economic Valuation of Earth's Critical Zone: A Pilot Study of the Zhangxi Catchment, China. <i>Sustainability</i> , 2020 , 12, 1699	3.6	3
530	Rice Grain Cadmium Concentrations in the Global Supply-Chain. <i>Exposure and Health</i> , 2020 , 12, 869-876	8.8	26
529	The Lancet Infectious Diseases Commission on antimicrobial resistance: 6 years later. <i>Lancet Infectious Diseases</i> , 2020 , 20, e51-e60	25.5	77
528	Characterization of antibiotic resistance genes and bacterial community in selected municipal and industrial sewage treatment plants beside Poyang Lake. <i>Water Research</i> , 2020 , 174, 115603	12.5	23
527	Arsenic transformation mediated by gut microbiota affects the fecundity of <i>Caenorhabditis elegans</i> . <i>Environmental Pollution</i> , 2020 , 260, 113991	9.3	6
526	The characterization of arsenic biotransformation microbes in paddy soil after straw biochar and straw amendments. <i>Journal of Hazardous Materials</i> , 2020 , 391, 122200	12.8	16
525	The Great Oxidation Event expanded the genetic repertoire of arsenic metabolism and cycling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 10414-10421	11.5	37

524	Effects of Earthworms on the Microbiomes and Antibiotic Resistomes of Detritus Fauna and Phyllospheres. <i>Environmental Science & Technology</i> , 2020 , 54, 6000-6008	10.3	25
523	Microbiome and antibiotic resistome in household dust from Beijing, China. <i>Environment International</i> , 2020 , 139, 105702	12.9	7
522	Antimicrobial Resistance is a Health Risk in Chinese Cities—How it Has Been Mapped. <i>Urban Health and Wellbeing</i> , 2020 , 45-48	0.3	1
521	Partial replacement of inorganic phosphorus (P) by organic manure reshapes phosphate mobilizing bacterial community and promotes P bioavailability in a paddy soil. <i>Science of the Total Environment</i> , 2020 , 703, 134977	10.2	33
520	Large-scale patterns of soil antibiotic resistome in Chinese croplands. <i>Science of the Total Environment</i> , 2020 , 712, 136418	10.2	25
519	Chronic kidney disease of unknown etiology (CKDu): Using a system dynamics model to conceptualize the multiple environmental causative pathways of the epidemic. <i>Science of the Total Environment</i> , 2020 , 705, 135766	10.2	9
518	Microbial resistance promotes plant production in a four-decade nutrient fertilization experiment. <i>Soil Biology and Biochemistry</i> , 2020 , 141, 107679	7.5	22
517	Rare microbial taxa as the major drivers of ecosystem multifunctionality in long-term fertilized soils. <i>Soil Biology and Biochemistry</i> , 2020 , 141, 107686	7.5	102
516	Host identity determines plant associated resistomes. <i>Environmental Pollution</i> , 2020 , 258, 113709	9.3	9
515	Restoring Abandoned Farmland to Mitigate Climate Change on a Full Earth. <i>One Earth</i> , 2020 , 3, 176-186	8.1	21
514	Mediated electrochemical analysis as emerging tool to unravel links between microbial redox cycling of natural organic matter and anoxic nitrogen cycling. <i>Earth-Science Reviews</i> , 2020 , 208, 103281	10.2	2
513	Meteorological impact on the COVID-19 pandemic: A study across eight severely affected regions in South America. <i>Science of the Total Environment</i> , 2020 , 744, 140881	10.2	29
512	Coupled anaerobic methane oxidation and reductive arsenic mobilization in wetland soils. <i>Nature Geoscience</i> , 2020 , 13, 799-805	18.3	21
511	Could Global Intensification of Nitrogen Fertilisation Increase Immunogenic Proteins and Favour the Spread of Coeliac Pathology?. <i>Foods</i> , 2020 , 9,	4.9	4
510	Transboundary Environmental Footprints of the Urban Food Supply Chain and Mitigation Strategies. <i>Environmental Science & Technology</i> , 2020 , 54, 10460-10471	10.3	10
509	A critical review of microplastic pollution in urban freshwater environments and legislative progress in China: Recommendations and insights. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 1-44	11.1	15
508	Crop production correlates with soil multitrophic communities at the large spatial scale. <i>Soil Biology and Biochemistry</i> , 2020 , 151, 108047	7.5	11
507	COVID-19 reveals the systemic nature of urban health globally. <i>Cities and Health</i> , 2020 , 1-5	2.8	6

506	Temporal Dynamics of Antibiotic Resistome in the Plastisphere during Microbial Colonization. <i>Environmental Science & Technology</i> , 2020 , 54, 11322-11332	10.3	52
505	Antibiotic Resistance in the Collembolan Gut Microbiome Accelerated by the Nonantibiotic Drug Carbamazepine. <i>Environmental Science & Technology</i> , 2020 , 54, 10754-10762	10.3	9
504	Bioavailable arsenic and amorphous iron oxides provide reliable predictions for arsenic transfer in soil-wheat system. <i>Journal of Hazardous Materials</i> , 2020 , 383, 121160	12.8	12
503	Identification of potential electrotrophic microbial community in paddy soils by enrichment of microbial electrolysis cell biocathodes. <i>Journal of Environmental Sciences</i> , 2020 , 87, 411-420	6.4	4
502	Phosphorus fractions and oxygen isotope composition of inorganic phosphate in typical agricultural soils. <i>Chemosphere</i> , 2020 , 239, 124622	8.4	10
501	Prevalence of Antibiotic Resistome in Ready-to-Eat Salad. <i>Frontiers in Public Health</i> , 2020 , 8, 92	6	9
500	The fungicide azoxystrobin promotes freshwater cyanobacterial dominance through altering competition. <i>Microbiome</i> , 2019 , 7, 128	16.6	26
499	Towards Urbanome the genome of the city to enhance the form and function of future cities. <i>Nature Communications</i> , 2019 , 10, 4014	17.4	5
498	Transcriptome Reveals the Rice Response to Elevated Free Air CO Concentration and TiO Nanoparticles. <i>Environmental Science & Technology</i> , 2019 , 53, 11714-11724	10.3	24
497	Changes in archaeal ether lipid composition in response to agriculture alternation in ancient and modern paddy soils. <i>Organic Geochemistry</i> , 2019 , 138, 103912	3.1	
496	Understanding drivers of antibiotic resistance genes in High Arctic soil ecosystems. <i>Environment International</i> , 2019 , 125, 497-504	12.9	78
495	Potential use of the <i>Pteris vittata</i> arsenic hyperaccumulation-regulation network for phytoremediation. <i>Journal of Hazardous Materials</i> , 2019 , 368, 386-396	12.8	51
494	Soil Functions: Connecting Earth's Critical Zone. <i>Annual Review of Earth and Planetary Sciences</i> , 2019 , 47, 333-359	15.3	31
493	Simultaneous adsorption and immobilization of As and Cd by birnessite-loaded biochar in water and soil. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 8575-8584	5.1	24
492	Trophic Transfer of Antibiotic Resistance Genes in a Soil Detritus Food Chain. <i>Environmental Science & Technology</i> , 2019 , 53, 7770-7781	10.3	36
491	NHHPO-extractable arsenic provides a reliable predictor for arsenic accumulation and speciation in pepper fruits (<i>Capsicum annum</i> L.). <i>Environmental Pollution</i> , 2019 , 251, 651-658	9.3	9
490	Phyllosphere of staple crops under pig manure fertilization, a reservoir of antibiotic resistance genes. <i>Environmental Pollution</i> , 2019 , 252, 227-235	9.3	34
489	Manure and Doxycycline Affect the Bacterial Community and Its Resistome in Lettuce Rhizosphere and Bulk Soil. <i>Frontiers in Microbiology</i> , 2019 , 10, 725	5.7	20

488	Interpreting distance-decay pattern of soil bacteria via quantifying the assembly processes at multiple spatial scales. <i>MicrobiologyOpen</i> , 2019 , 8, e00851	3.4	13
487	Mineral and organic fertilization alters the microbiome of a soil nematode <i>Dorylaimus stagnalis</i> and its resistome. <i>Science of the Total Environment</i> , 2019 , 680, 70-78	10.2	20
486	Does nano silver promote the selection of antibiotic resistance genes in soil and plant?. <i>Environment International</i> , 2019 , 128, 399-406	12.9	32
485	Exposure to microplastics lowers arsenic accumulation and alters gut bacterial communities of earthworm <i>Metaphire californica</i> . <i>Environmental Pollution</i> , 2019 , 251, 110-116	9.3	84
484	Effects of diet on gut microbiota of soil collembolans. <i>Science of the Total Environment</i> , 2019 , 676, 197-205	10.2	15
483	Microbiota in non-flooded and flooded rice culms. <i>FEMS Microbiology Ecology</i> , 2019 , 95,	4.3	6
482	Mobile Incubator for Iron(III) Reduction in the Gut of the Soil-Feeding Earthworm <i>Pheretima guillelmi</i> and Interaction with Denitrification. <i>Environmental Science & Technology</i> , 2019 , 53, 4215-4223	10.3	22
481	Fate of Antibiotic Resistant and Broad Host Range Plasmid in Natural Soil Microcosms. <i>Frontiers in Microbiology</i> , 2019 , 10, 194	5.7	28
480	Anaerobic oxidation of ethane by archaea from a marine hydrocarbon seep. <i>Nature</i> , 2019 , 568, 108-111	50.4	74
479	Microbiomes inhabiting rice roots and rhizosphere. <i>FEMS Microbiology Ecology</i> , 2019 , 95,	4.3	43
478	Antibiotic Resistomes in Plant Microbiomes. <i>Trends in Plant Science</i> , 2019 , 24, 530-541	13.1	105
477	Effects of Arsenic on Gut Microbiota and Its Biotransformation Genes in Earthworm <i>Metaphire sieboldi</i> . <i>Environmental Science & Technology</i> , 2019 , 53, 3841-3849	10.3	35
476	RNA Stable Isotope Probing of Potential Feammox Population in Paddy Soil. <i>Environmental Science & Technology</i> , 2019 , 53, 4841-4849	10.3	33
475	Soil oxytetracycline exposure alters the microbial community and enhances the abundance of antibiotic resistance genes in the gut of <i>Enchytraeus crypticus</i> . <i>Science of the Total Environment</i> , 2019 , 673, 357-366	10.2	16
474	Coupling metabolisms of arsenic and iron with humic substances through microorganisms in paddy soil. <i>Journal of Hazardous Materials</i> , 2019 , 373, 591-599	12.8	27
473	Rapid Antibiotic Susceptibility Testing of Pathogenic Bacteria Using Heavy-Water-Labeled Single-Cell Raman Spectroscopy in Clinical Samples. <i>Analytical Chemistry</i> , 2019 , 91, 6296-6303	7.8	59
472	Standardization of complex biologically derived spectrochemical datasets. <i>Nature Protocols</i> , 2019 , 14, 1546-1577	18.8	61
471	DirtyGenes: testing for significant changes in gene or bacterial population compositions from a small number of samples. <i>Scientific Reports</i> , 2019 , 9, 2373	4.9	5

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461	Spatial ecology of a wastewater network defines the antibiotic resistance genes in downstream receiving waters. <i>Water Research</i> , 2019 , 162, 347-357	12.5	56
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153	Inorganic arsenic in rice bran and its products are an order of magnitude higher than in bulk grain. <i>Environmental Science & Technology</i> , 2008 , 42, 7542-6	10.3	247
152	High percentage inorganic arsenic content of mining impacted and nonimpacted Chinese rice. <i>Environmental Science & Technology</i> , 2008 , 42, 5008-13	10.3	346
151	Bacterial Communities Inside and Surrounding Soil Iron-Manganese Nodules. <i>Geomicrobiology Journal</i> , 2008 , 25, 14-24	2.5	50
150	Health risks of heavy metals in contaminated soils and food crops irrigated with wastewater in Beijing, China. <i>Environmental Pollution</i> , 2008 , 152, 686-92	9.3	1366
149	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> , 2008 , 155, 174-81	9.3	99
148	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> , 2008 , 155, 359-65	9.3	79
147	Inorganic arsenic levels in baby rice are of concern. <i>Environmental Pollution</i> , 2008 , 152, 746-9	9.3	154

146	Exposure to inorganic arsenic from rice: a global health issue?. <i>Environmental Pollution</i> , 2008 , 154, 169-70	9.3	298
145	Arsenic accumulation by the aquatic fern <i>Azolla</i> : comparison of arsenate uptake, speciation and efflux by <i>A. caroliniana</i> and <i>A. filiculoides</i> . <i>Environmental Pollution</i> , 2008 , 156, 1149-55	9.3	76
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143	Relationships Between Agronomic and Environmental Soil Test Phosphorus in Three Typical Cultivated Soils in China. <i>Pedosphere</i> , 2008 , 18, 795-800	5	7
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141	Do water regimes affect iron-plaque formation and microbial communities in the rhizosphere of paddy rice?. <i>Journal of Plant Nutrition and Soil Science</i> , 2008 , 171, 193-199	2.3	40
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139	Positive correlation between soil bacterial metabolic and plant species diversity and bacterial and fungal diversity in a vegetation succession on Karst. <i>Plant and Soil</i> , 2008 , 307, 123-134	4.2	58
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137	Concentrations and bioaccessibility of polycyclic aromatic hydrocarbons in wastewater-irrigated soil using in vitro gastrointestinal test. <i>Environmental Science and Pollution Research</i> , 2008 , 15, 344-53	5.1	38
136	Arbuscular mycorrhizas contribute to phytostabilization of uranium in uranium mining tailings. <i>Journal of Environmental Radioactivity</i> , 2008 , 99, 801-10	2.4	32
135	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> , 2008 , 152, 506-15	12.8	185
134	Arsenic bioavailability in the soil amended with leaves of arsenic hyperaccumulator, Chinese brake fern (<i>Pteris vittata</i> L). <i>Environmental Toxicology and Chemistry</i> , 2008 , 27, 126-30	3.8	5
133	Arsenate-induced toxicity: effects on antioxidative enzymes and DNA damage in <i>Vicia faba</i> . <i>Environmental Toxicology and Chemistry</i> , 2008 , 27, 413-9	3.8	77
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123	Which ornamental plant species effectively remove benzene from indoor air?. <i>Atmospheric Environment</i> , 2007 , 41, 650-654	5.3	90
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111	Uptake of oxytetracycline and its phytotoxicity to alfalfa (<i>Medicago sativa</i> L.). <i>Environmental Pollution</i> , 2007 , 147, 187-93	9.3	153

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109	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> , 2007 , 148, 251-7	9.3	79
108	Where do Chinese scientists publish their research in environmental science and technology?. <i>Environmental Pollution</i> , 2007 , 147, 1-3	9.3	4
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106	Transport mechanisms for the uptake of organic compounds by rice (<i>Oryza sativa</i>) roots. <i>Environmental Pollution</i> , 2007 , 148, 94-100	9.3	73
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8	Effect of potassium starvation on the uptake of radiocaesium by spring wheat (<i>Triticum aestivum</i> cv. Tonic). <i>Plant and Soil</i> , 2000 , 220, 27-34	4.2	29
7	Plant uptake of radiocaesium: a review of mechanisms, regulation and application. <i>Journal of Experimental Botany</i> , 2000 , 51, 1635-45	7	331
6	Soil contamination with radionuclides and potential remediation. <i>Chemosphere</i> , 2000 , 41, 121-8	8.4	122
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3	The enigma of environmental organoarsenicals: Insights and implications. <i>Critical Reviews in Environmental Science and Technology</i> , 1-28	11.1	3

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1	Soil inorganic carbon sequestration through alkalinity regeneration using biologically induced weathering of rock powder and biochar. <i>Soil Ecology Letters</i> ,1	2.7	1