

Weimin Sun

List of Publications by Citations

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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.

97
papers

2,219
citations

29
h-index

43
g-index

103
ext. papers

3,080
ext. citations

7.1
avg, IF

5.4
L-index

#	Paper	IF	Citations
97	Correlating microbial community compositions with environmental factors in activated sludge from four full-scale municipal wastewater treatment plants in Shanghai, China. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 4663-73	5.7	94
96	Microbial community analysis in rice paddy soils irrigated by acid mine drainage contaminated water. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 2911-22	5.7	92
95	Response of Soil Microbial Communities to Elevated Antimony and Arsenic Contamination Indicates the Relationship between the Innate Microbiota and Contaminant Fractions. <i>Environmental Science & Technology</i> , 2017 , 51, 9165-9175	10.3	87
94	Profiling microbial community in a watershed heavily contaminated by an active antimony (Sb) mine in Southwest China. <i>Science of the Total Environment</i> , 2016 , 550, 297-308	10.2	82
93	Diversity of five anaerobic toluene-degrading microbial communities investigated using stable isotope probing. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 972-80	4.8	81
92	Impacts of coexisting antibiotics, antibacterial residues, and heavy metals on the occurrence of erythromycin resistance genes in urban wastewater. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 3971-80	5.7	79
91	Identification of a novel toluene-degrading bacterium from the candidate phylum TM7, as determined by DNA stable isotope probing. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 4644-7	4.8	66
90	Novel aerobic benzene degrading microorganisms identified in three soils by stable isotope probing. <i>Biodegradation</i> , 2011 , 22, 71-81	4.1	63
89	Diversity of the Sediment Microbial Community in the Aha Watershed (Southwest China) in Response to Acid Mine Drainage Pollution Gradients. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 4874-84	4.8	57
88	Bacterial Survival Strategies in an Alkaline Tailing Site and the Physiological Mechanisms of Dominant Phylotypes As Revealed by Metagenomic Analyses. <i>Environmental Science & Technology</i> , 2018 , 52, 13370-13380	10.3	54
87	Depth-resolved microbial community analyses in two contrasting soil cores contaminated by antimony and arsenic. <i>Environmental Pollution</i> , 2017 , 221, 244-255	9.3	51
86	Uncovering microbial responses to sharp geochemical gradients in a terrace contaminated by acid mine drainage. <i>Environmental Pollution</i> , 2020 , 261, 114226	9.3	51
85	Acid mine drainage affects the diversity and metal resistance gene profile of sediment bacterial community along a river. <i>Chemosphere</i> , 2019 , 217, 790-799	8.4	48
84	Identification of Anaerobic Aniline-Degrading Bacteria at a Contaminated Industrial Site. <i>Environmental Science & Technology</i> , 2015 , 49, 11079-88	10.3	45
83	Direct link between toluene degradation in contaminated-site microcosms and a <i>Polaromonas</i> strain. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 956-9	4.8	45
82	Identification of <i>Desulfosporosinus</i> as toluene-assimilating microorganisms from a methanogenic consortium. <i>International Biodeterioration and Biodegradation</i> , 2014 , 88, 13-19	4.8	44
81	Presence, diversity and enumeration of functional genes (<i>bssA</i> and <i>bamA</i>) relating to toluene degradation across a range of redox conditions and inoculum sources. <i>Biodegradation</i> , 2014 , 25, 189-203	4.1	42

80	Microbial diversity and community structure in an antimony-rich tailings dump. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 7751-63	5.7	42
79	Paddy soil microbial communities driven by environment- and microbe-microbe interactions: A case study of elevation-resolved microbial communities in a rice terrace. <i>Science of the Total Environment</i> , 2018 , 612, 884-893	10.2	41
78	Bacterial response to sharp geochemical gradients caused by acid mine drainage intrusion in a terrace: Relevance of C, N, and S cycling and metal resistance. <i>Environment International</i> , 2020 , 138, 105601	12.9	40
77	Nonylphenol biodegradation in river sediment and associated shifts in community structures of bacteria and ammonia-oxidizing microorganisms. <i>Ecotoxicology and Environmental Safety</i> , 2014 , 106, 1-5	7	39
76	Correlating microbial community profiles with geochemical conditions in a watershed heavily contaminated by an antimony tailing pond. <i>Environmental Pollution</i> , 2016 , 215, 141-153	9.3	38
75	Anaerobic methyl tert-butyl ether-degrading microorganisms identified in wastewater treatment plant samples by stable isotope probing. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 2973-80	4.8	36
74	Impacts of antimony and arsenic co-contamination on the river sedimentary microbial community in an antimony-contaminated river. <i>Science of the Total Environment</i> , 2020 , 713, 136451	10.2	35
73	Bacterial response to antimony and arsenic contamination in rice paddies during different flooding conditions. <i>Science of the Total Environment</i> , 2019 , 675, 273-285	10.2	34
72	Characterization of the microbial community composition and the distribution of Fe-metabolizing bacteria in a creek contaminated by acid mine drainage. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 8523-35	5.7	32
71	Rhizosphere Microbial Response to Multiple Metal(loid)s in Different Contaminated Arable Soils Indicates Crop-Specific Metal-Microbe Interactions. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	30
70	Bacteria diversity, distribution and insight into their role in S and Fe biogeochemical cycling during black shale weathering. <i>Environmental Microbiology</i> , 2014 , 16, 3533-47	5.2	29
69	Hydrophobic organic chemicals (HOCs) removal from biologically treated landfill leachate by powder-activated carbon (PAC), granular-activated carbon (GAC) and biomimetic fat cell (BFC). <i>Journal of Hazardous Materials</i> , 2009 , 163, 1084-9	12.8	29
68	From mesophilic to thermophilic digestion: the transitions of anaerobic bacterial, archaeal, and fungal community structures in sludge and manure samples. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 10271-82	5.7	28
67	Characterization of Nitrate-Dependent As(III)-Oxidizing Communities in Arsenic-Contaminated Soil and Investigation of Their Metabolic Potentials by the Combination of DNA-Stable Isotope Probing and Metagenomics. <i>Environmental Science & Technology</i> , 2020 , 54, 7366-7377	10.3	28
66	Stable Isotope Probing Identifies Novel m-Xylene Degradere in Soil Microcosms from Contaminated and Uncontaminated Sites. <i>Water, Air, and Soil Pollution</i> , 2010 , 212, 113-122	2.6	28
65	Profiling microbial community structures across six large oilfields in China and the potential role of dominant microorganisms in bioremediation. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 8751-64	5.7	27
64	Chemolithoautotrophic Diazotrophy Dominates the Nitrogen Fixation Process in Mine Tailings. <i>Environmental Science & Technology</i> , 2020 , 54, 6082-6093	10.3	27
63	Microbial communities inhabiting oil-contaminated soils from two major oilfields in Northern China: Implications for active petroleum-degrading capacity. <i>Journal of Microbiology</i> , 2015 , 53, 371-8	3	27

62	Impacts of Arsenic and Antimony Co-Contamination on Sedimentary Microbial Communities in Rivers with Different Pollution Gradients. <i>Microbial Ecology</i> , 2019 , 78, 589-602	4.4	26
61	Remediation of antimony-rich mine waters: Assessment of antimony removal and shifts in the microbial community of an onsite field-scale bioreactor. <i>Environmental Pollution</i> , 2016 , 215, 213-222	9.3	26
60	Variation in rhizosphere microbiota correlates with edaphic factor in an abandoned antimony tailing dump. <i>Environmental Pollution</i> , 2019 , 253, 141-151	9.3	25
59	A Combination of Stable Isotope Probing, Illumina Sequencing, and Co-occurrence Network to Investigate Thermophilic Acetate- and Lactate-Utilizing Bacteria. <i>Microbial Ecology</i> , 2018 , 75, 113-122	4.4	24
58	Investigation of the Ecological Roles of Putative Keystone Taxa during Tailing Revegetation. <i>Environmental Science & Technology</i> , 2020 , 54, 11258-11270	10.3	24
57	Microbiome-environment interactions in antimony-contaminated rice paddies and the correlation of core microbiome with arsenic and antimony contamination. <i>Chemosphere</i> , 2021 , 263, 128227	8.4	23
56	Biodegradation of nonylphenol by two alphaproteobacterial strains in liquid culture and sediment microcosm. <i>International Biodeterioration and Biodegradation</i> , 2014 , 92, 1-5	4.8	21
55	Arsenic and antimony co-contamination influences on soil microbial community composition and functions: Relevance to arsenic resistance and carbon, nitrogen, and sulfur cycling. <i>Environment International</i> , 2021 , 153, 106522	12.9	21
54	Root-associated (rhizosphere and endosphere) microbiomes of the <i>Miscanthus sinensis</i> and their response to the heavy metal contamination. <i>Journal of Environmental Sciences</i> , 2021 , 104, 387-398	6.4	20
53	Comparative characterization of microbial communities that inhabit arsenic-rich and antimony-rich contaminated sites: Responses to two different contamination conditions. <i>Environmental Pollution</i> , 2020 , 260, 114052	9.3	19
52	Vegetation type impacts microbial interaction with antimony contaminants in a mining-contaminated soil environment. <i>Environmental Pollution</i> , 2019 , 252, 1872-1881	9.3	18
51	Identification of a Ruminococcaceae Species as the Methyl tert-Butyl Ether (MTBE) Degrading Bacterium in a Methanogenic Consortium. <i>Environmental Science & Technology</i> , 2016 , 50, 1455-64	10.3	18
50	Phanerochaete chrysosporium inoculation shapes the indigenous fungal communities during agricultural waste composting. <i>Biodegradation</i> , 2014 , 25, 669-80	4.1	18
49	Comparative Analyses of the Microbial Communities Inhabiting Coal Mining Waste Dump and an Adjacent Acid Mine Drainage Creek. <i>Microbial Ecology</i> , 2019 , 78, 651-664	4.4	17
48	Characterization of iron-metabolizing communities in soils contaminated by acid mine drainage from an abandoned coal mine in Southwest China. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 9585-9598	5.1	17
47	Simazine biodegradation and community structures of ammonia-oxidizing microorganisms in bioaugmented soil: impact of ammonia and nitrate nitrogen sources. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 3175-81	5.1	17
46	Biosorption of Chromium(VI) Ions by Deposits Produced from Chicken Feathers after Soluble Keratin Extraction. <i>Clean - Soil, Air, Water</i> , 2014 , 42, 1558-1566	1.6	15
45	V Reduction by spp. in Vanadium Mine Tailings. <i>Environmental Science & Technology</i> , 2020 , 54, 14442-14454	10.3	15

44	Microbial iron reduction as a method for immobilization of a low concentration of dissolved cadmium. <i>Journal of Environmental Management</i> , 2018 , 217, 747-753	7.9	11
43	Effects of antimony on anaerobic methane oxidization and microbial community in an antimony-contaminated paddy soil: A microcosm study. <i>Science of the Total Environment</i> , 2021 , 784, 147239	10.2	10
42	Variation of nonylphenol-degrading gene abundance and bacterial community structure in bioaugmented sediment microcosm. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 2342-9	5.1	9
41	DNA-SIP Reveals the Diversity of Chemolithoautotrophic Bacteria Inhabiting Three Different Soil Types in Typical Karst Rocky Desertification Ecosystems in Southwest China. <i>Microbial Ecology</i> , 2018 , 76, 976-990	4.4	9
40	Microbial adaptation in vertical soil profiles contaminated by an antimony smelting plant. <i>FEMS Microbiology Ecology</i> , 2020 , 96,	4.3	9
39	Metabolic potentials of members of the class Acidobacteriia in metal-contaminated soils revealed by metagenomic analysis. <i>Environmental Microbiology</i> , 2021 ,	5.2	9
38	Response of soil protozoa to acid mine drainage in a contaminated terrace. <i>Journal of Hazardous Materials</i> , 2022 , 421, 126790	12.8	9
37	Bacteria responsible for nitrate-dependent antimonite oxidation in antimony-contaminated paddy soil revealed by the combination of DNA-SIP and metagenomics. <i>Soil Biology and Biochemistry</i> , 2021 , 156, 108194	7.5	8
36	Soil bacterial community functions and distribution after mining disturbance. <i>Soil Biology and Biochemistry</i> , 2021 , 157, 108232	7.5	8
35	Efficient reduction of antimony by sulfate-reducer enriched bio-cathode with hydrogen production in a microbial electrolysis cell. <i>Science of the Total Environment</i> , 2021 , 774, 145733	10.2	8
34	Root microbiome assembly of As-hyperaccumulator <i>Pteris vittata</i> and its efficacy in arsenic requisition. <i>Environmental Microbiology</i> , 2021 , 23, 1959-1971	5.2	8
33	Investigation of the antimony fractions and indigenous microbiota in aerobic and anaerobic rice paddies. <i>Science of the Total Environment</i> , 2021 , 771, 145408	10.2	7
32	Thallium shifts the bacterial and fungal community structures in thallium mine waste rocks. <i>Environmental Pollution</i> , 2021 , 268, 115834	9.3	7
31	Identification of Antimonate Reducing Bacteria and Their Potential Metabolic Traits by the Combination of Stable Isotope Probing and Metagenomic-Pangenomic Analysis. <i>Environmental Science & Technology</i> , 2021 , 55, 13902-13912	10.3	6
30	Microbial community responses to land-use types and its ecological roles in mining area. <i>Science of the Total Environment</i> , 2021 , 775, 145753	10.2	5
29	Profiling of Microbial Communities in the Sediments of Jinsha River Watershed Exposed to Different Levels of Impacts by the Vanadium Industry, Panzhihua, China. <i>Microbial Ecology</i> , 2021 , 82, 623-637	4.4	5
28	Variation in the diazotrophic community in a vertical soil profile contaminated with antimony and arsenic. <i>Environmental Pollution</i> , 2021 , 291, 118248	9.3	5
27	Bacteria responsible for antimonite oxidation in antimony-contaminated soil revealed by DNA-SIP coupled to metagenomics. <i>FEMS Microbiology Ecology</i> , 2021 , 97,	4.3	4

26	Structure and variation of root-associated bacterial communities of <i>Cyperus rotundus</i> L. in the contaminated soils around Pb/Zn mine sites. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 58523-58535	5.1	4
25	Identification of a Chlorodibenzo--dioxin Dechlorinating by Stable Isotope Probing. <i>Environmental Science & Technology</i> , 2019 , 53, 14409-14419	10.3	4
24	Response and Dynamic Change of Microbial Community during Bioremediation of Uranium Tailings by <i>Bacillus</i> sp.. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 967	2.4	4
23	Isolation and Characterization of an Erythromycin-Degrading Strain and Application for Bioaugmentation in a Biological Aerated Filter. <i>Water, Air, and Soil Pollution</i> , 2015 , 226, 1	2.6	3
22	Isolation and Identification of Uranium Tolerant Phosphate-Solubilizing spp. and Their Synergistic Strategies to U(VI) Immobilization. <i>Frontiers in Microbiology</i> , 2021 , 12, 676391	5.7	3
21	Synergy between pyridine anaerobic mineralization and vanadium (V) oxyanion bio-reduction for aquifer remediation. <i>Journal of Hazardous Materials</i> , 2021 , 418, 126339	12.8	3
20	Colloidal stability of nanosized activated carbon in aquatic systems: Effects of pH, electrolytes, and macromolecules. <i>Water Research</i> , 2021 , 203, 117561	12.5	3
19	Diversity and Metabolic Potentials of As(III)-Oxidizing Bacteria in Activated Sludge. <i>Applied and Environmental Microbiology</i> , 2021 , 87, e0176921	4.8	3
18	Energy and environmental impact assessment of a passive remediation bioreactor for antimony-rich mine drainage. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 35040-35050	5.1	2
17	Characterizing sediment bacterial community and identifying the biological indicators in a seawater-freshwater transition zone during the wet and dry seasons.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	2
16	Solar-driven, self-sustainable electrolysis for treating eutrophic river water: Intensified nutrient removal and reshaped microbial communities. <i>Science of the Total Environment</i> , 2021 , 764, 144293	10.2	2
15	Stable-isotope probing coupled with high-throughput sequencing reveals bacterial taxa capable of degrading aniline at three contaminated sites with contrasting pH. <i>Science of the Total Environment</i> , 2021 , 771, 144807	10.2	2
14	Citric acid and AMF inoculation combination-assisted phytoextraction of vanadium (V) by <i>Medicago sativa</i> in V mining contaminated soil. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 67472-67486	5.1	2
13	Effects of Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonic Acid (PFOS) on Soil Microbial Community. <i>Microbial Ecology</i> , 2021 , 1	4.4	2
12	Synergistic Impacts of Arsenic and Antimony Co-contamination on Diazotrophic Communities. <i>Microbial Ecology</i> , 2021 , 1	4.4	2
11	Effects of Cd on reductive transformation of lepidocrocite by <i>Shewanella oneidensis</i> MR-1. <i>Acta Geochimica</i> , 2017 , 36, 479-481	2.2	1
10	spp. Are Responsible for Nitrogen Fixation Fueled by As(III) Oxidation, a Novel Biogeochemical Process Identified in Mine Tailings.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	1
9	Stable Isotope Probing Implicates <i>Pseudomonas</i> as the Methanogenic Toluene Degradation in Gasoline-Contaminated Soil. <i>Water, Air, and Soil Pollution</i> , 2021 , 232, 1	2.6	1

8	Toxic effects of microplastics in plants depend more by their surface functional groups than just accumulation contents.. <i>Science of the Total Environment</i> , 2022 , 155097	10.2	1
7	Anaerobic Degradation of Aromatic Compounds 2015 , 5.1.3-1-5.1.3-14		o
6	The composition, biotic network, and assembly of plastisphere protistan taxonomic and functional communities in plastic-mulching croplands.. <i>Journal of Hazardous Materials</i> , 2022 , 430, 128390	12.8	o
5	Antimony reduction by a non-conventional sulfate reducer with simultaneous bioenergy production in microbial fuel cells. <i>Chemosphere</i> , 2021 , 291, 132754	8.4	o
4	Glomalin-related soil protein (GRSP) in metal sequestration at Pb/Zn-contaminated sites. <i>Journal of Soils and Sediments</i> , 2022 , 22, 577	3.4	o
3	Effects of perfluorooctanoic acid (PFOA) on activated sludge microbial community under aerobic and anaerobic conditions.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	o
2	Microbial Transformations of Antimony. <i>Advances in Environmental Microbiology</i> , 2022 , 223-254	1.3	o
1	Cooperation triggers nitrogen removal and algal inhibition by actinomycetes during landscape water treatment: Performance and metabolic activity.. <i>Bioresource Technology</i> , 2022 , 127313	11	o