

Weimin Sun

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.

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 | 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 | 0 |
| 96 | 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 |
| 95 | 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 |
| 94 | 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 | 0 |
| 93 | Response of soil protozoa to acid mine drainage in a contaminated terrace. <i>Journal of Hazardous Materials</i> , 2022 , 421, 126790 | 12.8 | 9 |
| 92 | 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 |
| 91 | 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 | 0 |
| 90 | Microbial Transformations of Antimony. <i>Advances in Environmental Microbiology</i> , 2022 , 223-254 | 1.3 | 0 |
| 89 | Cooperation triggers nitrogen removal and algal inhibition by actinomycetes during landscape water treatment: Performance and metabolic activity.. <i>Bioresource Technology</i> , 2022 , 127313 | 11 | 0 |
| 88 | Antimony reduction by a non-conventional sulfate reducer with simultaneous bioenergy production in microbial fuel cells. <i>Chemosphere</i> , 2021 , 291, 132754 | 8.4 | 0 |
| 87 | 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 |
| 86 | 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 |
| 85 | Stable Isotope Probing Implicates Pseudomonas as the Methanogenic Toluene Degradar in Gasoline-Contaminated Soil. <i>Water, Air, and Soil Pollution</i> , 2021 , 232, 1 | 2.6 | 1 |
| 84 | 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 |
| 83 | Soil bacterial community functions and distribution after mining disturbance. <i>Soil Biology and Biochemistry</i> , 2021 , 157, 108232 | 7.5 | 8 |
| 82 | 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 |
| 81 | Metabolic potentials of members of the class Acidobacteriia in metal-contaminated soils revealed by metagenomic analysis. <i>Environmental Microbiology</i> , 2021 , | 5.2 | 9 |

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| 80 | 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 |
| 79 | 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 |
| 78 | 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 |
| 77 | 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 |
| 76 | 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 |
| 75 | 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 |
| 74 | Effects of Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonic Acid (PFOS) on Soil Microbial Community. <i>Microbial Ecology</i> , 2021 , 1 | 4.4 | 2 |
| 73 | 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 |
| 72 | 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 |
| 71 | Thallium shifts the bacterial and fungal community structures in thallium mine waste rocks. <i>Environmental Pollution</i> , 2021 , 268, 115834 | 9.3 | 7 |
| 70 | 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 |
| 69 | 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 |
| 68 | Synergistic Impacts of Arsenic and Antimony Co-contamination on Diazotrophic Communities. <i>Microbial Ecology</i> , 2021 , 1 | 4.4 | 2 |
| 67 | 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 |
| 66 | 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 |
| 65 | 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 |
| 64 | 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 |
| 63 | 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 |

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| 62 | 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 |
| 61 | Diversity and Metabolic Potentials of As(III)-Oxidizing Bacteria in Activated Sludge. <i>Applied and Environmental Microbiology</i> , 2021 , 87, e0176921 | 4.8 | 3 |
| 60 | 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 |
| 59 | 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 |
| 58 | Chemolithoautotrophic Diazotrophy Dominates the Nitrogen Fixation Process in Mine Tailings. <i>Environmental Science & Technology</i> , 2020 , 54, 6082-6093 | 10.3 | 27 |
| 57 | 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 |
| 56 | 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 |
| 55 | 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 |
| 54 | 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 |
| 53 | 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 |
| 52 | Investigation of the Ecological Roles of Putative Keystone Taxa during Tailing Revegetation. <i>Environmental Science & Technology</i> , 2020 , 54, 11258-11270 | 10.3 | 24 |
| 51 | V Reduction by spp. in Vanadium Mine Tailings. <i>Environmental Science & Technology</i> , 2020 , 54, 14442-14454 | 10.4 | 45 |
| 50 | Microbial adaptation in vertical soil profiles contaminated by an antimony smelting plant. <i>FEMS Microbiology Ecology</i> , 2020 , 96, | 4.3 | 9 |
| 49 | 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 |
| 48 | 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 |
| 47 | 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 |
| 46 | 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 |
| 45 | 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 |

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| 44 | 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 |
| 43 | Identification of a Chlorodibenzo--dioxin Dechlorinating by Stable Isotope Probing. <i>Environmental Science & Technology</i> , 2019 , 53, 14409-14419 | 10.3 | 4 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |
| 39 | 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 |
| 38 | 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 |
| 37 | 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 |
| 36 | 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 |
| 35 | 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 |
| 34 | 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 |
| 33 | 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 |
| 32 | 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 |
| 31 | 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 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |

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| 26 | Microbial diversity and community structure in an antimony-rich tailings dump. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 7751-63 | 5.7 | 42 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | 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 |
| 21 | Identification of Anaerobic Aniline-Degrading Bacteria at a Contaminated Industrial Site. <i>Environmental Science & Technology</i> , 2015 , 49, 11079-88 | 10.3 | 45 |
| 20 | 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 |
| 19 | Anaerobic Degradation of Aromatic Compounds 2015 , 5.1.3-1-5.1.3-14 | | 0 |
| 18 | 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 |
| 17 | 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 |
| 16 | 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 |
| 15 | 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 |
| 14 | Presence, diversity and enumeration of functional genes (bssA and bamA) relating to toluene degradation across a range of redox conditions and inoculum sources. <i>Biodegradation</i> , 2014 , 25, 189-203 | 4.1 | 42 |
| 13 | 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 |
| 12 | 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 |
| 11 | Phanerochaete chrysosporium inoculation shapes the indigenous fungal communities during agricultural waste composting. <i>Biodegradation</i> , 2014 , 25, 669-80 | 4.1 | 18 |
| 10 | Identification of Desulfosporosinus as toluene-assimilating microorganisms from a methanogenic consortium. <i>International Biodeterioration and Biodegradation</i> , 2014 , 88, 13-19 | 4.8 | 44 |
| 9 | 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 |

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| 8 | 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 |
| 7 | 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 |
| 6 | 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 |
| 5 | Novel aerobic benzene degrading microorganisms identified in three soils by stable isotope probing. <i>Biodegradation</i> , 2011 , 22, 71-81 | 4.1 | 63 |
| 4 | 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 |
| 3 | Stable Isotope Probing Identifies Novel m-Xylene Degradation in Soil Microcosms from Contaminated and Uncontaminated Sites. <i>Water, Air, and Soil Pollution</i> , 2010 , 212, 113-122 | 2.6 | 28 |
| 2 | 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 |
| 1 | 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 |