

Weimin Sun

List of Publications by Year in descending order

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102
papers

3,859
citations

81743

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149479

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103
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103
docs citations

103
times ranked

2955
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 4663-4673.	1.7	139
2	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.	4.6	133
3	Microbial community analysis in rice paddy soils irrigated by acid mine drainage contaminated water. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 2911-2922.	1.7	131
4	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.	4.8	120
5	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.	4.6	112
6	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.	3.9	104
7	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, 3971-3980.	1.7	92
8	Diversity of Five Anaerobic Toluene-Degrading Microbial Communities Investigated Using Stable Isotope Probing. <i>Applied and Environmental Microbiology</i> , 2012, 78, 972-980.	1.4	89
9	Uncovering microbial responses to sharp geochemical gradients in a terrace contaminated by acid mine drainage. <i>Environmental Pollution</i> , 2020, 261, 114226.	3.7	88
10	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.	4.2	83
11	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.	4.6	82
12	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, 4644-4647.	1.4	77
13	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.	4.8	74
14	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, 4874-4884.	1.4	73
15	Novel aerobic benzene degrading microorganisms identified in three soils by stable isotope probing. <i>Biodegradation</i> , 2011, 22, 71-81.	1.5	72
16	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.	3.9	70
17	Chemolithoautotrophic Diazotrophy Dominates the Nitrogen Fixation Process in Mine Tailings. <i>Environmental Science & Technology</i> , 2020, 54, 6082-6093.	4.6	63
18	Investigation of the Ecological Roles of Putative Keystone Taxa during Tailing Revegetation. <i>Environmental Science & Technology</i> , 2020, 54, 11258-11270.	4.6	62

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19	Depth-resolved microbial community analyses in two contrasting soil cores contaminated by antimony and arsenic. <i>Environmental Pollution</i> , 2017, 221, 244-255.	3.7	60
20	Identification of Anaerobic Aniline-Degrading Bacteria at a Contaminated Industrial Site. <i>Environmental Science & Technology</i> , 2015, 49, 11079-11088.	4.6	56
21	Variation in rhizosphere microbiota correlates with edaphic factor in an abandoned antimony tailing dump. <i>Environmental Pollution</i> , 2019, 253, 141-151.	3.7	56
22	Microbial diversity and community structure in an antimony-rich tailings dump. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 7751-7763.	1.7	55
23	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, 371-378.	1.3	53
24	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.	3.2	53
25	Direct Link between Toluene Degradation in Contaminated-Site Microcosms and a <i>Polaromonas</i> Strain. <i>Applied and Environmental Microbiology</i> , 2010, 76, 956-959.	1.4	50
26	Bacteria diversity, distribution and insight into their role in <i>S</i> and <i>F</i> biogeochemical cycling during black shale weathering. <i>Environmental Microbiology</i> , 2014, 16, 3533-3547.	1.8	50
27	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.	3.9	49
28	Identification of <i>Desulfosporosinus</i> as toluene-assimilating microorganisms from a methanogenic consortium. <i>International Biodeterioration and Biodegradation</i> , 2014, 88, 13-19.	1.9	48
29	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.	3.7	48
30	<i>Desulfurivibrio</i> spp. mediate sulfur-oxidation coupled to Sb(V) reduction, a novel biogeochemical process. <i>ISME Journal</i> , 2022, 16, 1547-1556.	4.4	48
31	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, .	1.4	47
32	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.	3.9	47
33	V^{5+} Reduction by <i>Polaromonas</i> spp. in Vanadium Mine Tailings. <i>Environmental Science & Technology</i> , 2020, 54, 14442-14454.	4.6	47
34	<i>Serratia</i> 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, 56, 2033-2043.	4.6	46
35	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.	2.9	45
36	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.	1.4	45

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37	Microbiomeâ€“environment interactions in antimony-contaminated rice paddies and the correlation of core microbiome with arsenic and antimony contamination. <i>Chemosphere</i> , 2021, 263, 128227.	4.2	45
38	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.	6.5	45
39	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.	1.5	43
40	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, 833, 155097.	3.9	42
41	Anaerobic Methyl <i>tert</i> -Butyl Ether-Degrading Microorganisms Identified in Wastewater Treatment Plant Samples by Stable Isotope Probing. <i>Applied and Environmental Microbiology</i> , 2012, 78, 2973-2980.	1.4	41
42	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, 1084-1089.	6.5	40
43	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, 8523-8535.	1.7	40
44	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.	3.7	40
45	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, 10271-10282.	1.7	38
46	Stable Isotope Probing Identifies Novel <i>m</i> -Xylene Degraders in Soil Microcosms from Contaminated and Uncontaminated Sites. <i>Water, Air, and Soil Pollution</i> , 2010, 212, 113-122.	1.1	37
47	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.	3.7	37
48	Soil bacterial community functions and distribution after mining disturbance. <i>Soil Biology and Biochemistry</i> , 2021, 157, 108232.	4.2	36
49	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, 8751-8764.	1.7	35
50	Response of soil protozoa to acid mine drainage in a contaminated terrace. <i>Journal of Hazardous Materials</i> , 2022, 421, 126790.	6.5	33
51	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.	1.4	32
52	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.	1.4	29
53	Metabolic potentials of members of the class <i>Acidobacteriia</i> in metalâ€“contaminated soils revealed by metagenomic analysis. <i>Environmental Microbiology</i> , 2022, 24, 803-818.	1.8	29
54	Vegetation type impacts microbial interaction with antimony contaminants in a mining-contaminated soil environment. <i>Environmental Pollution</i> , 2019, 252, 1872-1881.	3.7	27

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55	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.	2.7	27
56	Biodegradation of nonylphenol by two alphaproteobacterial strains in liquid culture and sediment microcosm. <i>International Biodeterioration and Biodegradation</i> , 2014, 92, 1-5.	1.9	25
57	Root microbiome assembly of <i>As hyperaccumulator</i> <i>Pteris vittata</i> and its efficacy in arsenic requisition. <i>Environmental Microbiology</i> , 2021, 23, 1959-1971.	1.8	25
58	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.	4.2	25
59	Microbial adaptation in vertical soil profiles contaminated by an antimony smelting plant. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	23
60	Effects of Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonic Acid (PFOS) on Soil Microbial Community. <i>Microbial Ecology</i> , 2022, 83, 929-941.	1.4	23
61	<i>Phanerochaete chrysosporium</i> inoculation shapes the indigenous fungal communities during agricultural waste composting. <i>Biodegradation</i> , 2014, 25, 669-680.	1.5	22
62	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.	3.9	22
63	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.	4.6	22
64	Variation in the diazotrophic community in a vertical soil profile contaminated with antimony and arsenic. <i>Environmental Pollution</i> , 2021, 291, 118248.	3.7	22
65	Diversity and Metabolic Potentials of As(III)-Oxidizing Bacteria in Activated Sludge. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0176921.	1.4	21
66	Identification of a <i>Ruminococcaceae</i> Species as the Methyl <i>tert</i> -Butyl Ether (MTBE) Degrading Bacterium in a Methanogenic Consortium. <i>Environmental Science & Technology</i> , 2016, 50, 1455-1464.	4.6	20
67	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.	3.8	20
68	Microbial community responses to land-use types and its ecological roles in mining area. <i>Science of the Total Environment</i> , 2021, 775, 145753.	3.9	20
69	Thallium shifts the bacterial and fungal community structures in thallium mine waste rocks. <i>Environmental Pollution</i> , 2021, 268, 115834.	3.7	19
70	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, 3175-3181.	2.7	18
71	Investigation of the antimony fractions and indigenous microbiota in aerobic and anaerobic rice paddies. <i>Science of the Total Environment</i> , 2021, 771, 145408.	3.9	17
72	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.	0.7	16

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73	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.	1.4	16
74	Cooperation triggers nitrogen removal and algal inhibition by actinomycetes during landscape water treatment: Performance and metabolic activity. <i>Bioresource Technology</i> , 2022, 356, 127313.	4.8	16
75	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.	3.9	15
76	Bacteria responsible for antimonite oxidation in antimony-contaminated soil revealed by DNA-SIP coupled to metagenomics. <i>FEMS Microbiology Ecology</i> , 2021, 97, .	1.3	13
77	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.	2.7	13
78	Variation of nonylphenol-degrading gene abundance and bacterial community structure in bioaugmented sediment microcosm. <i>Environmental Science and Pollution Research</i> , 2015, 22, 2342-2349.	2.7	11
79	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.	3.9	11
80	Isolation and Identification of Uranium Tolerant Phosphate-Solubilizing <i>Bacillus</i> spp. and Their Synergistic Strategies to U(VI) Immobilization. <i>Frontiers in Microbiology</i> , 2021, 12, 676391.	1.5	11
81	Synergy between pyridine anaerobic mineralization and vanadium (V) oxyanion bio-reduction for aquifer remediation. <i>Journal of Hazardous Materials</i> , 2021, 418, 126339.	6.5	11
82	Primary Succession Changes the Composition and Functioning of the Protist Community on Mine Tailings, Especially Phototrophic Protists. <i>ACS Environmental Au</i> , 2022, 2, 396-408.	3.3	11
83	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.	1.4	10
84	Colloidal stability of nanosized activated carbon in aquatic systems: Effects of pH, electrolytes, and macromolecules. <i>Water Research</i> , 2021, 203, 117561.	5.3	10
85	Identification of a Chlorodibenzo- <i>p</i> -dioxin Dechlorinating <i>Dehalococcoides mccartyi</i> by Stable Isotope Probing. <i>Environmental Science & Technology</i> , 2019, 53, 14409-14419.	4.6	9
86	Synergistic Impacts of Arsenic and Antimony Co-contamination on Diazotrophic Communities. <i>Microbial Ecology</i> , 2022, 84, 44-58.	1.4	9
87	Glomalin-related soil protein (GRSP) in metal sequestration at Pb/Zn-contaminated sites. <i>Journal of Soils and Sediments</i> , 2022, 22, 577-593.	1.5	9
88	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.	0.8	8
89	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.	2.7	7
90	Antimony reduction by a non-conventional sulfate reducer with simultaneous bioenergy production in microbial fuel cells. <i>Chemosphere</i> , 2022, 291, 132754.	4.2	7

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91	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, 29, 41219-41230.	2.7	7
92	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.	3.9	6
93	Effects of perfluorooctanoic acid (PFOA) on activated sludge microbial community under aerobic and anaerobic conditions. <i>Environmental Science and Pollution Research</i> , 2022, 29, 63379-63392.	2.7	6
94	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.	2.7	5
95	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.	1.1	3
96	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.	1.1	3
97	Keystone taxa and functional analysis in arsenic and antimony co-contaminated rice terraces. <i>Environmental Science and Pollution Research</i> , 2022, 29, 61236-61246.	2.7	3
98	Microbial Transformations of Antimony. <i>Advances in Environmental Microbiology</i> , 2022, , 223-254.	0.1	3
99	Investigation of focal ratio degradation caused by stress in large-core astronomical fibers. , 2013, , .		1
100	Anaerobic Degradation of Aromatic Compounds. , 2015, , 5.1.3-1-5.1.3-14.		1
101	Effects of Cd on reductive transformation of lepidocrocite by <i>Shewanella oneidensis</i> MR-1. <i>Acta Geochimica</i> , 2017, 36, 479-481.	0.7	1
102	ACS Environmental Auâ”€Go Green and Go for Gold!. <i>ACS Environmental Au</i> , 2022, 2, 1-2.	3.3	0