

Dayi Zhang

List of Publications by Year in descending order

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162
papers

5,569
citations

81743

39
h-index

114278

63
g-index

170
all docs

170
docs citations

170
times ranked

5421
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluating tetracycline degradation pathway and intermediate toxicity during the electrochemical oxidation over a Ti/Ti4O7 anode. <i>Water Research</i> , 2018, 137, 324-334.	5.3	493
2	Potential spreading risks and disinfection challenges of medical wastewater by the presence of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) viral RNA in septic tanks of Fangcang Hospital. <i>Science of the Total Environment</i> , 2020, 741, 140445.	3.9	236
3	Impacts of heavy metals and soil properties at a Nigerian e-waste site on soil microbial community. <i>Journal of Hazardous Materials</i> , 2019, 362, 187-195.	6.5	226
4	Roles of Phosphate Solubilizing Microorganisms from Managing Soil Phosphorus Deficiency to Mediating Biogeochemical P Cycle. <i>Biology</i> , 2021, 10, 158.	1.3	134
5	Standardization of complex biologically derived spectrochemical datasets. <i>Nature Protocols</i> , 2019, 14, 1546-1577.	5.5	96
6	Biodegradation of Phenanthrene in Polycyclic Aromatic Hydrocarbon-Contaminated Wastewater Revealed by Coupling Cultivation-Dependent and -Independent Approaches. <i>Environmental Science & Technology</i> , 2017, 51, 3391-3401.	4.6	93
7	Diversity of the active phenanthrene degraders in PAH-polluted soil is shaped by ryegrass rhizosphere and root exudates. <i>Soil Biology and Biochemistry</i> , 2019, 128, 100-110.	4.2	91
8	Autochthonous Bioaugmentation-Modified Bacterial Diversity of Phenanthrene Degraders in PAH-Contaminated Wastewater as Revealed by DNA-Stable Isotope Probing. <i>Environmental Science & Technology</i> , 2018, 52, 2934-2944.	4.6	90
9	Identification of Benzo[<i>a</i>]pyrene-Metabolizing Bacteria in Forest Soils by Using DNA-Based Stable-Isotope Probing. <i>Applied and Environmental Microbiology</i> , 2015, 81, 7368-7376.	1.4	89
10	Impacts of environmental factors on the whole microbial communities in the rhizosphere of a metal-tolerant plant: <i>Elsholtzia haichowensis</i> Sun. <i>Environmental Pollution</i> , 2018, 237, 1088-1097.	3.7	87
11	Functionalization of whole-cell bacterial reporters with magnetic nanoparticles. <i>Microbial Biotechnology</i> , 2011, 4, 89-97.	2.0	81
12	The impact on the soil microbial community and enzyme activity of two earthworm species during the bioremediation of pentachlorophenol-contaminated soils. <i>Journal of Hazardous Materials</i> , 2016, 301, 35-45.	6.5	78
13	Ultra-fast and onsite interrogation of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) in waters via surface enhanced Raman scattering (SERS). <i>Water Research</i> , 2021, 200, 117243.	5.3	77
14	Magnetic nanoparticle-mediated isolation of functional bacteria in a complex microbial community. <i>ISME Journal</i> , 2015, 9, 603-614.	4.4	75
15	Whole-cell bacterial bioreporter for actively searching and sensing of alkanes and oil spills. <i>Microbial Biotechnology</i> , 2012, 5, 87-97.	2.0	73
16	Anaerobic degradation of Polychlorinated Biphenyls (PCBs) and Polychlorinated Biphenyls Ethers (PBDEs), and microbial community dynamics of electronic waste-contaminated soil. <i>Science of the Total Environment</i> , 2015, 502, 426-433.	3.9	73
17	Whole cell bioreporter application for rapid detection and evaluation of crude oil spill in seawater caused by Dalian oil tank explosion. <i>Water Research</i> , 2013, 47, 1191-1200.	5.3	70
18	Impacts of irrigation water sources and geochemical conditions on vertical distribution of pharmaceutical and personal care products (PPCPs) in the vadose zone soils. <i>Science of the Total Environment</i> , 2018, 626, 1148-1156.	3.9	67

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19	Changes in atrazine speciation and the degradation pathway in red soil during the vermiremediation process. <i>Journal of Hazardous Materials</i> , 2019, 364, 710-719.	6.5	63
20	Bacteria capable of degrading anthracene, phenanthrene, and fluoranthene as revealed by DNA based stable-isotope probing in a forest soil. <i>Journal of Hazardous Materials</i> , 2016, 308, 50-57.	6.5	59
21	Application of <i>Simplicillium chinense</i> for Cd and Pb biosorption and enhancing heavy metal phytoremediation of soils. <i>Science of the Total Environment</i> , 2019, 697, 134148.	3.9	58
22	Effects of two ecological earthworm species on atrazine degradation performance and bacterial community structure in red soil. <i>Chemosphere</i> , 2018, 196, 467-475.	4.2	57
23	Application and reactivation of magnetic nanoparticles in <i>Microcystis aeruginosa</i> harvesting. <i>Bioresource Technology</i> , 2015, 190, 82-88.	4.8	56
24	Biphenyl-Metabolizing Microbial Community and a Functional Operon Revealed in E-Waste-Contaminated Soil. <i>Environmental Science & Technology</i> , 2018, 52, 8558-8567.	4.6	54
25	Advances of magnetic nanoparticles in environmental application: environmental remediation and (bio)sensors as case studies. <i>Environmental Science and Pollution Research</i> , 2018, 25, 30863-30879.	2.7	53
26	Toxicity assessment and modelling of <i>Moringa oleifera</i> seeds in water purification by whole cell bioreporter. <i>Water Research</i> , 2014, 56, 77-87.	5.3	52
27	The influence of e-waste recycling on the molecular ecological network of soil microbial communities in Pakistan and China. <i>Environmental Pollution</i> , 2017, 231, 173-181.	3.7	50
28	Heavy Metal Exposure Alters the Uptake Behavior of 16 Priority Polycyclic Aromatic Hydrocarbons (PAHs) by <i>Pak Choi</i> (<i>Brassica chinensis</i> L.). <i>Environmental Science & Technology</i> , 2018, 52, 13457-13468.	4.6	50
29	Exploring the Influence of Environmental Factors on Bacterial Communities within the Rhizosphere of the Cu-tolerant plant, <i>Elsholtzia splendens</i> . <i>Scientific Reports</i> , 2016, 6, 36302.	1.6	49
30	Uptake and translocation of polycyclic aromatic hydrocarbons (PAHs) and heavy metals by maize from soil irrigated with wastewater. <i>Scientific Reports</i> , 2017, 7, 12165.	1.6	49
31	Unraveling uncultivable pesticide degraders via stable isotope probing (SIP). <i>Critical Reviews in Biotechnology</i> , 2018, 38, 1025-1048.	5.1	49
32	Significant Impacts of Both Total Amount and Availability of Heavy Metals on the Functions and Assembly of Soil Microbial Communities in Different Land Use Patterns. <i>Frontiers in Microbiology</i> , 2019, 10, 2293.	1.5	49
33	Effects of two ecological earthworm species on tetracycline degradation performance, pathway and bacterial community structure in laterite soil. <i>Journal of Hazardous Materials</i> , 2021, 412, 125212.	6.5	48
34	Novel bacteria capable of degrading phenanthrene in activated sludge revealed by stable-isotope probing coupled with high-throughput sequencing. <i>Biodegradation</i> , 2017, 28, 423-436.	1.5	47
35	Short- and long-term effects of manganese, zinc and copper ions on nitrogen removal in nitrification-anammox process. <i>Chemosphere</i> , 2018, 193, 479-488.	4.2	46
36	Land-use changes alter soil bacterial composition and diversity in tropical forest soil in China. <i>Science of the Total Environment</i> , 2020, 712, 136526.	3.9	45

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37	Development of a Fast Raman-Assisted Antibiotic Susceptibility Test (FRAST) for the Antibiotic Resistance Analysis of Clinical Urine and Blood Samples. <i>Analytical Chemistry</i> , 2021, 93, 5098-5106.	3.2	45
38	Could Uptake and Acropetal Translocation of PBDEs by Corn Be Enhanced Following Cu Exposure? Evidence from a Root Damage Experiment. <i>Environmental Science & Technology</i> , 2016, 50, 856-863.	4.6	44
39	A whole-cell bioreporter assay for quantitative genotoxicity evaluation of environmental samples. <i>Chemosphere</i> , 2017, 184, 384-392.	4.2	42
40	Effective phytoremediation of low-level heavy metals by native macrophytes in a vanadium mining area, China. <i>Environmental Science and Pollution Research</i> , 2018, 25, 31272-31282.	2.7	42
41	Coupling magnetic-nanoparticle mediated isolation (MMI) and stable isotope probing (SIP) for identifying and isolating the active microbes involved in phenanthrene degradation in wastewater with higher resolution and accuracy. <i>Water Research</i> , 2018, 144, 226-234.	5.3	41
42	Microbial degradation of organophosphorus pesticides: novel degraders, kinetics, functional genes, and genotoxicity assessment. <i>Environmental Science and Pollution Research</i> , 2019, 26, 21668-21681.	2.7	41
43	Response of microbial communities to different organochlorine pesticides (OCPs) contamination levels in contaminated soils. <i>Chemosphere</i> , 2019, 215, 461-469.	4.2	41
44	Enhancing pentachlorophenol degradation by vermicomposting associated bioremediation. <i>Ecological Engineering</i> , 2016, 87, 288-294.	1.6	40
45	Field-scale studies on the change of soil microbial community structure and functions after stabilization at a chromium-contaminated site. <i>Journal of Hazardous Materials</i> , 2021, 415, 125727.	6.5	39
46	Characterization and identification of microplastics using Raman spectroscopy coupled with multivariate analysis. <i>Analytica Chimica Acta</i> , 2022, 1197, 339519.	2.6	39
47	Cr(VI) removal from soils and groundwater using an integrated adsorption and microbial fuel cell (A-MFC) technology. <i>Environmental Pollution</i> , 2019, 252, 1399-1405.	3.7	38
48	Interrogating chemical variation via layer-by-layer SERS during biofouling and cleaning of nanofiltration membranes with further investigations into cleaning efficiency. <i>Water Research</i> , 2015, 87, 282-291.	5.3	37
49	Shifts in a Phenanthrene-Degrading Microbial Community are Driven by Carbohydrate Metabolism Selection in a Ryegrass Rhizosphere. <i>Environmental Science & Technology</i> , 2021, 55, 962-973.	4.6	37
50	Method to predict key factors affecting lake eutrophication – A new approach based on Support Vector Regression model. <i>International Biodeterioration and Biodegradation</i> , 2015, 102, 308-315.	1.9	36
51	Magnet bioreporter device for ecological toxicity assessment on heavy metal contamination of coal cinder sites. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 290-299.	4.0	36
52	Characterisation of the phenanthrene degradation-related genes and degrading ability of a newly isolated copper-tolerant bacterium. <i>Environmental Pollution</i> , 2017, 220, 1059-1067.	3.7	36
53	Graphene-oxide modified polyvinyl-alcohol as microbial carrier to improve high salt wastewater treatment. <i>Materials Letters</i> , 2015, 156, 205-208.	1.3	34
54	The complex interactions between novel DEHP-metabolising bacteria and the microbes in agricultural soils. <i>Science of the Total Environment</i> , 2019, 660, 733-740.	3.9	34

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55	Biological soil crust succession in deserts through a 59-year-long case study in China: How induced biological soil crust strategy accelerates desertification reversal from decades to years. <i>Soil Biology and Biochemistry</i> , 2020, 141, 107665.	4.2	34
56	New naphthalene whole-cell bioreporter for measuring and assessing naphthalene in polycyclic aromatic hydrocarbons contaminated site. <i>Chemosphere</i> , 2017, 186, 510-518.	4.2	33
57	SARS-CoV-2 spillover into hospital outdoor environments. <i>Journal of Hazardous Materials Letters</i> , 2021, 2, 100027.	2.0	33
58	Di(2-ethylhexyl) phthalate induces apoptosis through mitochondrial pathway in GC-2spd cells. <i>Environmental Toxicology</i> , 2017, 32, 1055-1064.	2.1	32
59	Separating and characterizing functional alkane degraders from crude-oil-contaminated sites via magnetic nanoparticle-mediated isolation. <i>Research in Microbiology</i> , 2016, 167, 731-744.	1.0	30
60	Moisture content-affected electrokinetic remediation of Cr(VI)-contaminated clay by a hydrocalumite barrier. <i>Environmental Science and Pollution Research</i> , 2016, 23, 6517-6523.	2.7	30
61	Fingerprinting microbiomes towards screening for microbial antibiotic resistance. <i>Integrative Biology (United Kingdom)</i> , 2017, 9, 406-417.	0.6	30
62	Infrared Spectroscopy Coupled with a Dispersion Model for Quantifying the Real-Time Dynamics of Kanamycin Resistance in Artificial Microbiota. <i>Analytical Chemistry</i> , 2017, 89, 9814-9821.	3.2	30
63	Distinct assembly processes shape bacterial communities along unsaturated, groundwater fluctuated, and saturated zones. <i>Science of the Total Environment</i> , 2021, 761, 143303.	3.9	30
64	APPLICATION OF MAGNETIC NANOPARTICLES IN DRINKING WATER PURIFICATION. <i>Environmental Engineering and Management Journal</i> , 2014, 13, 2023-2029.	0.2	30
65	Key Cr species controlling Cr stability in contaminated soils before and chemical stabilization at a remediation engineering site. <i>Journal of Hazardous Materials</i> , 2022, 424, 127532.	6.5	30
66	Use of a whole-cell bioreporter, <i>Acinetobacter baylyi</i> , to estimate the genotoxicity and bioavailability of chromium(VI)-contaminated soils. <i>Biotechnology Letters</i> , 2015, 37, 343-348.	1.1	29
67	Whole-cell bioreporters for evaluating petroleum hydrocarbon contamination. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 272-322.	6.6	29
68	Roles of Phosphorus Sources in Microbial Community Assembly for the Removal of Organic Matters and Ammonia in Activated Sludge. <i>Frontiers in Microbiology</i> , 2019, 10, 1023.	1.5	28
69	Stable-Isotope Probing-Enabled Cultivation of the Indigenous Bacterium <i>Ralstonia</i> sp. Strain M1, Capable of Degrading Phenanthrene and Biphenyl in Industrial Wastewater. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	28
70	Identification of biphenyl-metabolising microbes in activated biosludge using cultivation-independent and -dependent approaches. <i>Journal of Hazardous Materials</i> , 2018, 353, 534-541.	6.5	27
71	The presence of in situ sulphamethoxazole degraders and their interactions with other microbes in activated sludge as revealed by DNA stable isotope probing and molecular ecological network analysis. <i>Environment International</i> , 2019, 124, 121-129.	4.8	27
72	Large-scale biogeographical patterns of antibiotic resistome in the forest soils across China. <i>Journal of Hazardous Materials</i> , 2021, 403, 123990.	6.5	27

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73	History of petroleum disturbance triggering the depth-resolved assembly process of microbial communities in the vadose zone. <i>Journal of Hazardous Materials</i> , 2021, 402, 124060.	6.5	27
74	Spatial variation of dissolved organic nitrogen in Wuhan surface waters: Correlation with the occurrence of disinfection byproducts during the COVID-19 pandemic. <i>Water Research</i> , 2021, 198, 117138.	5.3	27
75	Novel Phenanthrene-Degrading Bacteria Identified by DNA-Stable Isotope Probing. <i>PLoS ONE</i> , 2015, 10, e0130846.	1.1	27
76	The abundance of nitrogen cycle genes and potential greenhouse gas fluxes depends on land use type and little on soil aggregate size. <i>Applied Soil Ecology</i> , 2018, 125, 1-11.	2.1	26
77	Combined electro-catazone/electro-peroxone process for rapid and effective Rhodamine B degradation. <i>Separation and Purification Technology</i> , 2017, 178, 189-192.	3.9	25
78	Quantification of Chemotaxis-Related Alkane Accumulation in <i>Acinetobacter baylyi</i> Using Raman Microspectroscopy. <i>Analytical Chemistry</i> , 2017, 89, 3909-3918.	3.2	25
79	Impacts of earthworm casts on atrazine catabolism and bacterial community structure in laterite soil. <i>Journal of Hazardous Materials</i> , 2022, 425, 127778.	6.5	25
80	Significant influence of phosphorus resources on the growth and alkaline phosphatase activities of <i>Microcystis aeruginosa</i> . <i>Environmental Pollution</i> , 2021, 268, 115807.	3.7	24
81	Preparing and characterizing Fe ₃ O ₄ @cellulose nanocomposites for effective isolation of cellulose-decomposing microorganisms. <i>Materials Letters</i> , 2016, 163, 154-157.	1.3	23
82	Alleviated Antibiotic-Resistant Genes in the Rhizosphere of Agricultural Soils with Low Antibiotic Concentration. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 2457-2466.	2.4	23
83	Autochthonous bioaugmentation with non-direct degraders: A new strategy to enhance wastewater bioremediation performance. <i>Environment International</i> , 2020, 136, 105473.	4.8	23
84	Uptake and translocation of organophosphate esters by plants: Impacts of chemical structure, plant cultivar and copper. <i>Environment International</i> , 2021, 155, 106591.	4.8	23
85	Effects of water table and fertilization management on nitrogen loading to groundwater. <i>Agricultural Water Management</i> , 2006, 82, 86-98.	2.4	22
86	Reflection of Stereoselectivity during the Uptake and Acropetal Translocation of Chiral PCBs in Plants in the Presence of Copper. <i>Environmental Science & Technology</i> , 2017, 51, 13834-13841.	4.6	22
87	Rhizospheric effects on atrazine speciation and degradation in laterite soils of <i>Pennisetum alopecuroides</i> (L.) Spreng. <i>Environmental Science and Pollution Research</i> , 2018, 25, 12407-12418.	2.7	21
88	cDNA Library for Mining Functional Genes in <i>Sedum alfredii</i> Hance Related to Cadmium Tolerance and Characterization of the Roles of a Novel <i>SaCTP2</i> Gene in Enhancing Cadmium Hyperaccumulation. <i>Environmental Science & Technology</i> , 2019, 53, 10926-10940.	4.6	21
89	Quantifying impacts on remote photogrammetric inspection using unmanned aerial vehicles. <i>Engineering Structures</i> , 2020, 209, 109940.	2.6	21
90	Physiological characteristics, geochemical properties and hydrological variables influencing pathogen migration in subsurface system: What we know or not?. <i>Geoscience Frontiers</i> , 2022, 13, 101346.	4.3	21

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91	Application and mechanisms of microalgae harvesting by magnetic nanoparticles (MNPs). Separation and Purification Technology, 2021, 265, 118519.	3.9	20
92	The catabolic pathways of <i>in situ</i> rhizosphere PAH degraders and the main factors driving PAH rhizoremediation in oil-contaminated soil. Environmental Microbiology, 2021, 23, 7042-7055.	1.8	20
93	Assessing the impacts of phosphorus inactive clay on phosphorus release control and phytoplankton community structure in eutrophic lakes. Environmental Pollution, 2016, 219, 620-630.	3.7	19
94	A mobile, modular and rapidly-acting treatment system for optimizing and improving the removal of non-aqueous phase liquids (NAPLs) in groundwater. Journal of Hazardous Materials, 2018, 360, 639-650.	6.5	19
95	Spectrochemical analyses of growth phase-related bacterial responses to low (environmentally-relevant) concentrations of tetracycline and nanoparticulate silver. Analyst, The, 2018, 143, 768-776.	1.7	18
96	Impacts of n-alkane concentration on soil bacterial community structure and alkane monooxygenase genes abundance during bioremediation processes. Frontiers of Environmental Science and Engineering, 2018, 12, 1.	3.3	18
97	Identifying the Active Phenanthrene Degradators and Characterizing Their Metabolic Activities at the Single-Cell Level by the Combination of Magnetic-Nanoparticle-Mediated Isolation, Stable-Isotope Probing, and Raman-Activated Cell Sorting (MMSIP-RACS). Environmental Science & Technology, 2022, 56, 2289-2299.	4.6	18
98	Characterization and Modeling of Transcriptional Cross-Regulation in <i>Acinetobacter baylyi</i> ADP1. ACS Synthetic Biology, 2012, 1, 274-283.	1.9	17
99	Innovative slow-release organic carbon-source material for groundwater <i>in situ</i> denitrification. Environmental Technology (United Kingdom), 2015, 36, 909-919.	1.2	17
100	Biodegradation of Dichlorodiphenyltrichloroethanes (DDTs) and Hexachlorocyclohexanes (HCHs) with Plant and Nutrients and Their Effects on the Microbial Ecological Kinetics. Microbial Ecology, 2015, 69, 281-292.	1.4	16
101	The Dynamic Change of Microbial Communities in Crude Oil-Contaminated Soils from Oil Fields in China. Soil and Sediment Contamination, 2017, 26, 171-183.	1.1	16
102	Diagnose Pathogens in Drinking Water via Magnetic Surface-Enhanced Raman Scattering (SERS) Assay. Materials Today: Proceedings, 2017, 4, 25-31.	0.9	16
103	Identification and comprehensive analysis of the characteristics and roles of leucine-rich repeat receptor-like protein kinase (LRR-RLK) genes in <i>Sedum alfredii</i> Hance responding to cadmium stress. Ecotoxicology and Environmental Safety, 2019, 167, 95-106.	2.9	16
104	Natural Hosts of Environmental Media Human: A New Potential Pathway of COVID-19 Outbreak. Engineering, 2020, 6, 1085-1098.	3.2	16
105	The positive role of root decomposition on the bioremediation of organic pollutants contaminated soil: A case study using PCB-9 as a model compound. Soil Biology and Biochemistry, 2022, 171, 108726.	4.2	16
106	Autonomous Ultrasonic Inspection Using Unmanned Aerial Vehicle. , 2018, , .		15
107	Applying Raman Microspectroscopy to Evaluate the Effects of Nutrient Cations on Alkane Bioavailability to <i>Acinetobacter baylyi</i> ADP1. Environmental Science & Technology, 2020, 54, 15800-15810.	4.6	15
108	Ecological Barrier Deterioration Driven by Human Activities Poses Fatal Threats to Public Health due to Emerging Infectious Diseases. Engineering, 2022, 10, 155-166.	3.2	15

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109	Identification and functional characterization of ABCC transporters for Cd tolerance and accumulation in <i>Sedum alfredii</i> Hance. <i>Scientific Reports</i> , 2020, 10, 20928.	1.6	14
110	Interrogating cadmium and lead biosorption mechanisms by <i>Simplicillium chinense</i> via infrared spectroscopy. <i>Environmental Pollution</i> , 2020, 263, 114419.	3.7	14
111	Negative correlations between cultivable and active-yet-uncultivable pyrene degraders explain the postponed bioaugmentation. <i>Journal of Hazardous Materials</i> , 2022, 423, 127189.	6.5	14
112	Electrosorption for organic pollutants removal and desalination by graphite and activated carbon fiber composite electrodes. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 3735-3744.	1.8	13
113	Accelerated atrazine degradation and altered metabolic pathways in goat manure assisted soil bioremediation. <i>Ecotoxicology and Environmental Safety</i> , 2021, 221, 112432.	2.9	13
114	Enhanced Lead (Pb) immobilization in red soil by phosphate solubilizing fungi associated with tricalcium phosphate influencing microbial community composition and Pb translocation in <i>Lactuca sativa</i> L.. <i>Journal of Hazardous Materials</i> , 2022, 424, 127720.	6.5	13
115	Cost-effectiveness Analysis on Magnetic Harvesting of Algal Cells. <i>Materials Today: Proceedings</i> , 2017, 4, 50-56.	0.9	12
116	Di(2-ethylhexyl)phthalate induces reproductive toxicity via JAZF1/TR4 pathway and oxidative stress in pubertal male rats. <i>Toxicology and Industrial Health</i> , 2019, 35, 228-238.	0.6	12
117	Intracellular Metabolomics Switching Alters Extracellular Acid Production and Insoluble Phosphate Solubilization Behavior in <i>Penicillium oxalicum</i> . <i>Metabolites</i> , 2020, 10, 441.	1.3	12
118	Partition and Fate of Phthalate Acid Esters (PAEs) in a Full-Scale Horizontal Subsurface Flow Constructed Wetland Treating Polluted River Water. <i>Water (Switzerland)</i> , 2020, 12, 865.	1.2	12
119	Mechanisms and pathways of ethidium bromide Fenton-like degradation by reusable magnetic nanocatalysts. <i>Chemosphere</i> , 2021, 262, 127852.	4.2	12
120	Dry Coupled Ultrasonic Non-Destructive Evaluation Using an Over-Actuated Unmanned Aerial Vehicle. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022, 19, 2874-2889.	3.4	11
121	Evaluating the simulated toxicities of metal mixtures and hydrocarbons using the alkane degrading bioreporter <i>Acinetobacter baylyi</i> ADPWH_recA. <i>Journal of Hazardous Materials</i> , 2021, 419, 126471.	6.5	11
122	Effects of biochar pyrolysis temperature on di-2-ethylhexyl phthalate (DEHP) removal performance and microbial community structure in coastal sediments. <i>Environmental Technology and Innovation</i> , 2021, 24, 102004.	3.0	11
123	Different acetonitrile degraders and degrading genes between anaerobic ammonium oxidation and sequencing batch reactor as revealed by stable isotope probing and magnetic-nanoparticle mediated isolation. <i>Science of the Total Environment</i> , 2021, 758, 143588.	3.9	10
124	Mechanism of salicylic acid in promoting the rhizosphere benzo[a]pyrene biodegradation as revealed by DNA-stable isotope probing. <i>Science of the Total Environment</i> , 2022, 810, 152202.	3.9	10
125	Recruitment of cyanobacteria from the sediments in the eutrophic Shanzi Reservoir. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 641-651.	1.2	9
126	Rhizospheric effects on the microbial community of e-waste-contaminated soils using phospholipid fatty acid and isoprenoid glycerol dialkyl glycerol tetraether analyses. <i>Environmental Science and Pollution Research</i> , 2018, 25, 9904-9914.	2.7	9

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127	A Framework of Using Customized LIDAR to Localize Robot for Nuclear Reactor Inspections. IEEE Sensors Journal, 2022, 22, 5352-5359.	2.4	9
128	FUNCTIONALIZATION AND IMMOBILIZATION OF WHOLE CELL BIOREPORTERS FOR THE DETECTION OF ENVIRONMENTAL CONTAMINATION. Environmental Engineering and Management Journal, 2013, 12, 1417-1422.	0.2	9
129	Combined effects of Penicillium oxalicum and tricalcium phosphate on lead immobilization: Performance, mechanisms and stabilities. Ecotoxicology and Environmental Safety, 2021, 227, 112880.	2.9	9
130	Bio-geological processes of nitrogen transport and transformation in the aeration zone and aquifer. Hydrological Sciences Journal, 2009, 54, 316-326.	1.2	8
131	Structure and mass transportation model of slow-release organic carbon-source material for groundwater <i>in situ</i> denitrification. Environmental Technology (United Kingdom), 2015, 36, 395-403.	1.2	8
132	Geo-distribution pattern of microbial carbon cycling genes responsive to petroleum contamination in continental horizontal oilfields. Science of the Total Environment, 2020, 731, 139188.	3.9	8
133	Implementation and evaluation of an autonomous airborne ultrasound inspection system. Nondestructive Testing and Evaluation, 2022, 37, 1-21.	1.1	8
134	Toward a More Comprehensive Understanding of Autochthonous Bioaugmentation (ABA): Cases of ABA for Phenanthrene and Biphenyl by <i>Ralstonia</i> sp. M1 in Industrial Wastewater. ACS ES&T Water, 2021, 1, 1390-1400.	2.3	8
135	A Global Overview of SARS-CoV-2 in Wastewater: Detection, Treatment, and Prevention. ACS ES&T Water, 2021, 1, 2174-2185.	2.3	8
136	Correlation of bacterial community with phosphorus fraction drives discovery of Actinobacteria involved soil phosphorus transformation during the trichlorfon degradation. Environmental Pollution, 2022, 302, 119043.	3.7	8
137	The influence of carbon sources on the expression of the recA gene and genotoxicity detection by an Acinetobacter bioreporter. Environmental Sciences: Processes and Impacts, 2015, 17, 835-843.	1.7	7
138	Spectrochemical determination of unique bacterial responses following long-term low-level exposure to antimicrobials. Analytical Methods, 2018, 10, 1602-1611.	1.3	7
139	WHOLE CELL BIOREPORTER FOR THE ESTIMATION OF OIL CONTAMINATION. Environmental Engineering and Management Journal, 2013, 12, 1353-1358.	0.2	7
140	Interrogating the Transient Selectivity of Bacterial Chemotaxis-Driven Affinity and Accumulation of Carbonaceous Substances via Raman Microspectroscopy. Frontiers in Microbiology, 2019, 10, 2215.	1.5	6
141	A Novel Centralization Method for Pipe Image Stitching. IEEE Sensors Journal, 2021, 21, 11889-11898.	2.4	6
142	Roles of sulfur compounds in growth and alkaline phosphatase activities of Microcystis aeruginosa under phosphorus deficiency stress. Environmental Science and Pollution Research, 2020, 27, 21533-21541.	2.7	6
143	Electro-enhanced leaching method for the mobilization of Cr(VI) in contaminated groundwater aquifer. Scientific Reports, 2020, 10, 5297.	1.6	6
144	Bacterial Whole-Cell Biosensors for the Detection of Contaminants in Water and Soils. Methods in Molecular Biology, 2014, 1096, 155-168.	0.4	6

#	ARTICLE	IF	CITATIONS
145	Response of soil microbial communities to petroleum hydrocarbons at a multi-contaminated industrial site in Lanzhou, China. <i>Chemosphere</i> , 2022, 306, 135559.	4.2	6
146	One-step synthesis of magnetic-TiO ₂ -nanocomposites with high iron oxide-composing ratio for photocatalysis of rhodamine 6G. <i>PLoS ONE</i> , 2019, 14, e0221221.	1.1	4
147	Spectrochemical identification of kanamycin resistance genes in artificial microbial communities using Clover-assay. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 181, 113108.	1.4	4
148	Environmental Toxicity Analysis and Reduction of Ceramsite Synthesis from Industrial Coal Gasification Coarse Cinder Waste. <i>Polish Journal of Environmental Studies</i> , 2017, 26, 147-153.	0.6	4
149	Monitoring the Activated Sludge Activities Affected by Industrial Toxins via an Early-Warning System Based on the Relative Oxygen Uptake Rate (ROUR) Index. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 154.	1.3	3
150	Evaluation of Coded Excitations for Autonomous Airborne Ultrasonic Inspection. , 2019, , .		3
151	Radiocarbon evidence of the impact of forest-to-plantation conversion on soil organic carbon dynamics on a tropical island. <i>Geoderma</i> , 2020, 375, 114484.	2.3	3
152	In-vitro toxicity assessment of Eucalyptus robusta Smith extracts via whole-cell bioreporter. <i>Ecotoxicology and Environmental Safety</i> , 2022, 240, 113704.	2.9	3
153	iTRAQ-Based Comparative Proteomic Analysis of Acinetobacter baylyi ADP1 Under DNA Damage in Relation to Different Carbon Sources. <i>Frontiers in Microbiology</i> , 2019, 10, 2906.	1.5	2
154	Uptake, Acropetal Translocation, and Enantioselectivity of Perfluorooctane Sulfonate in Maize Coexisting with Copper. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 2062-2068.	2.4	2
155	Dry-Coupled Airborne Ultrasonic Inspection Using Coded Excitation. , 2020, , .		2
156	Sheet, Surveillance, Strategy, Salvage and Shield in global biodefense system to protect the public health and tackle the incoming pandemics. <i>Science of the Total Environment</i> , 2022, 822, 153469.	3.9	2
157	Decreased levels and ecological risks of disinfection by-product chloroform in a field-scale artificial groundwater recharge project by colloid supplement. <i>Environment International</i> , 2022, 161, 107130.	4.8	2
158	Impacts of groundwater level fluctuation on soil microbial community, alkane degradation efficiency and alkane-degrading gene diversity in the critical zone: Evidence from an accelerated water table fluctuation simulation. <i>Environmental Science and Pollution Research</i> , 2022, 29, 83060-83070.	2.7	2
159	Establishing Reference Conditions for Lake Water Quality: A Novel Extrapolation Approach. <i>Water Resources Management</i> , 2014, 28, 2161-2178.	1.9	1
160	Decoupled Spatial Distribution of PAHs Degraders Determined by Taxonomic 16S rRNA and Degrading Genes Across Chinese Forest Soils. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2020JG005659.	1.3	1
161	FLEXIBLE SOIL MICROBIAL CARBON METABOLISM ACROSS AN ASIAN ELEVATION GRADIENT. <i>Radiocarbon</i> , 2021, 63, 1397-1413.	0.8	1
162	Toxicity assessment and microbial response to soil antibiotic exposure: differences between individual and mixed antibiotics. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 460-473.	1.7	0