

Bing Wu

List of Publications by Year in descending order

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110
papers

4,904
citations

87843

38
h-index

98753

67
g-index

110
all docs

110
docs citations

110
times ranked

6413
citing authors

#	ARTICLE	IF	CITATIONS
1	Toxicity of perfluorooctanoic acid on zebrafish early embryonic development determined by single-cell RNA sequencing. <i>Journal of Hazardous Materials</i> , 2022, 427, 127888.	6.5	23
2	Heterogeneity effects of nanoplastics and lead on zebrafish intestinal cells identified by single-cell sequencing. <i>Chemosphere</i> , 2022, 289, 133133.	4.2	28
3	Novel insight into dissolved organic nitrogen (DON) transformation along wastewater treatment processes with special emphasis on endogenous-source DON. <i>Environmental Research</i> , 2022, 208, 112713.	3.7	2
4	Combined effects of arsenic and 2,2-dichloroacetamide on different cell populations of zebrafish liver. <i>Science of the Total Environment</i> , 2022, 821, 152961.	3.9	7
5	High concentrations of dissolved organic nitrogen and N-nitrosodimethylamine precursors in effluent from biological nutrient removal process with low dissolved oxygen conditions. <i>Water Research</i> , 2022, 216, 118336.	5.3	21
6	Regulation of exogenous acyl homoserine lactones on sludge settling performance: Monitoring via ultrasonic time-domain reflectometry. <i>Chemosphere</i> , 2022, 303, 135019.	4.2	3
7	Enhanced UV photoreductive destruction of perfluorooctanoic acid in the presence of alcohols: Synergistic mechanism of hydroxyl radical quenching and solvent effect. <i>Applied Catalysis B: Environmental</i> , 2022, 316, 121652.	10.8	17
8	Recovery of gut microbiota in mice exposed to tetracycline hydrochloride and their correlation with host metabolism. <i>Ecotoxicology</i> , 2021, 30, 1620-1631.	1.1	6
9	Ameliorative effect of graphene nanosheets against arsenic-induced toxicity in mice by oral exposure. <i>Environmental Science and Pollution Research</i> , 2021, 28, 21577-21588.	2.7	6
10	Highly Efficient Hydrated Electron Utilization and Reductive Destruction of Perfluoroalkyl Substances Induced by Intermolecular Interaction. <i>Environmental Science & Technology</i> , 2021, 55, 3996-4006.	4.6	44
11	Combined effects of arsenic and palmitic acid on oxidative stress and lipid metabolism disorder in human hepatoma HepG2 cells. <i>Science of the Total Environment</i> , 2021, 769, 144849.	3.9	9
12	Effect of Influent Carbon-to-Nitrogen Ratios on the Production and Bioavailability of Microorganism-Derived Dissolved Organic Nitrogen (mDON) in Activated Sludge Systems. <i>ACS ES&T Water</i> , 2021, 1, 2037-2045.	2.3	5
13	Regulation of Photosynthesis in Bloom-Forming Cyanobacteria with the Simplest Î ² -Diketone. <i>Environmental Science & Technology</i> , 2021, 55, 14173-14184.	4.6	24
14	Comparison of toxicity induced by EDTA-Cu after UV/H ₂ O ₂ and UV/persulfate treatment: Species-specific and technology-dependent toxicity. <i>Chemosphere</i> , 2020, 240, 124942.	4.2	22
15	Effect of salinity on mature wastewater treatment biofilm microbial community assembly and metabolite characteristics. <i>Science of the Total Environment</i> , 2020, 711, 134437.	3.9	21
16	In-situ monitoring AHL-mediated quorum-sensing regulation of the initial phase of wastewater biofilm formation. <i>Environment International</i> , 2020, 135, 105326.	4.8	39
17	Single-Cell Sequencing Reveals Heterogeneity Effects of Bisphenol A on Zebrafish Embryonic Development. <i>Environmental Science & Technology</i> , 2020, 54, 9537-9546.	4.6	27
18	Low Concentrations of Silver Nanoparticles and Silver Ions Perturb the Antioxidant Defense System and Nitrogen Metabolism in N ₂ -Fixing Cyanobacteria. <i>Environmental Science & Technology</i> , 2020, 54, 15996-16005.	4.6	56

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19	In-situ monitoring of the unstable bacterial adhesion process during wastewater biofilm formation: A comprehensive study. <i>Environment International</i> , 2020, 140, 105722.	4.8	28
20	Influence of the digestive process on intestinal toxicity of polystyrene microplastics as determined by in vitro Caco-2 models. <i>Chemosphere</i> , 2020, 256, 127204.	4.2	66
21	Efficient Reductive Destruction of Perfluoroalkyl Substances under Self-Assembled Micelle Confinement. <i>Environmental Science & Technology</i> , 2020, 54, 5178-5185.	4.6	52
22	Single-Cell RNA Sequencing Reveals Size-Dependent Effects of Polystyrene Microplastics on Immune and Secretory Cell Populations from Zebrafish Intestines. <i>Environmental Science & Technology</i> , 2020, 54, 3417-3427.	4.6	129
23	Combined effects of graphene oxide and zinc oxide nanoparticle on human A549 cells: bioavailability, toxicity and mechanisms. <i>Environmental Science: Nano</i> , 2019, 6, 635-645.	2.2	41
24	Insight into mature biofilm quorum sensing in full-scale wastewater treatment plants. <i>Chemosphere</i> , 2019, 234, 310-317.	4.2	20
25	Distribution characteristics of N-acyl homoserine lactones during the moving bed biofilm reactor biofilm development process: Effect of carbon/nitrogen ratio and exogenous quorum sensing signals. <i>Bioresource Technology</i> , 2019, 289, 121591.	4.8	23
26	Quorum sensing signaling distribution during the development of full-scale municipal wastewater treatment biofilms. <i>Science of the Total Environment</i> , 2019, 685, 28-36.	3.9	32
27	Comparison of cytotoxicity and membrane efflux pump inhibition in HepG2 cells induced by single-walled carbon nanotubes with different length and functional groups. <i>Scientific Reports</i> , 2019, 9, 7557.	1.6	13
28	Comparative analysis of toxicity reduction of wastewater in twelve industrial park wastewater treatment plants based on battery of toxicity assays. <i>Scientific Reports</i> , 2019, 9, 3751.	1.6	19
29	Differential influence of molybdenum disulfide at the nanometer and micron scales in the intestinal metabolome and microbiome of mice. <i>Environmental Science: Nano</i> , 2019, 6, 1594-1606.	2.2	21
30	Transformation of dissolved organic matter during full-scale treatment of integrated chemical wastewater: Molecular composition correlated with spectral indexes and acute toxicity. <i>Water Research</i> , 2019, 157, 472-482.	5.3	143
31	Influence of Iron on Cytotoxicity and Gene Expression Profiles Induced by Arsenic in HepG2 Cells. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 4484.	1.2	5
32	Memory effect of arsenic-induced cellular response and its influences on toxicity of titanium dioxide nanoparticle. <i>Scientific Reports</i> , 2019, 9, 107.	1.6	3
33	Size-dependent effects of polystyrene microplastics on cytotoxicity and efflux pump inhibition in human Caco-2 cells. <i>Chemosphere</i> , 2019, 221, 333-341.	4.2	288
34	Is ozonation environmentally benign for reverse osmosis concentrate treatment? Four-level analysis on toxicity reduction based on organic matter fractionation. <i>Chemosphere</i> , 2018, 191, 971-978.	4.2	28
35	Insight into the characteristics, removal, and toxicity of effluent organic matter from a pharmaceutical wastewater treatment plant during catalytic ozonation. <i>Scientific Reports</i> , 2018, 8, 9581.	1.6	19
36	Aerobic Biodegradation Characteristic of Different Water-Soluble Azo Dyes. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 35.	1.2	8

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37	Rapid and complete dehalogenation of halonitromethanes in simulated gastrointestinal tract and its influence on toxicity. <i>Chemosphere</i> , 2018, 211, 1147-1155.	4.2	20
38	Hepatic transcriptomic responses in mice exposed to arsenic and different fat diet. <i>Environmental Science and Pollution Research</i> , 2017, 24, 10621-10629.	2.7	8
39	Differential toxicity of arsenic on renal oxidative damage and urinary metabolic profiles in normal and diabetic mice. <i>Environmental Science and Pollution Research</i> , 2017, 24, 17485-17492.	2.7	13
40	Mechanisms of microbial community structure and biofouling shifts under multivalent cations stress in membrane bioreactors. <i>Journal of Hazardous Materials</i> , 2017, 327, 89-96.	6.5	18
41	Cytotoxicity and Efflux Pump Inhibition Induced by Molybdenum Disulfide and Boron Nitride Nanomaterials with Sheetlike Structure. <i>Environmental Science & Technology</i> , 2017, 51, 10834-10842.	4.6	53
42	Facilitation of trace metal uptake in cells by inulin coating of metallic nanoparticles. <i>Royal Society Open Science</i> , 2017, 4, 170480.	1.1	13
43	Comparative toxicity of chloro- and bromo-nitromethanes in mice based on a metabolomic method. <i>Chemosphere</i> , 2017, 185, 20-28.	4.2	22
44	Comprehensive insights into microcystin-LR effects on hepatic lipid metabolism using cross-omics technologies. <i>Journal of Hazardous Materials</i> , 2016, 315, 126-134.	6.5	57
45	Nanomaterials-enabled water and wastewater treatment. <i>NanoImpact</i> , 2016, 3-4, 22-39.	2.4	286
46	Arsenic Metabolism and Toxicity Influenced by Ferric Iron in Simulated Gastrointestinal Tract and the Roles of Gut Microbiota. <i>Environmental Science & Technology</i> , 2016, 50, 7189-7197.	4.6	80
47	Influences of graphene on microbial community and antibiotic resistance genes in mouse gut as determined by high-throughput sequencing. <i>Chemosphere</i> , 2016, 144, 1306-1312.	4.2	49
48	Comparison of Cytotoxicity and Inhibition of Membrane ABC Transporters Induced by MWCNTs with Different Length and Functional Groups. <i>Environmental Science & Technology</i> , 2016, 50, 3985-3994.	4.6	56
49	Low levels of graphene and graphene oxide inhibit cellular xenobiotic defense system mediated by efflux transporters. <i>Nanotoxicology</i> , 2016, 10, 597-606.	1.6	39
50	Influence of diet, vitamin, tea, trace elements and exogenous antioxidants on arsenic metabolism and toxicity. <i>Environmental Geochemistry and Health</i> , 2016, 38, 339-351.	1.8	34
51	Potential genotoxicity and risk assessment of a chlorinated flame retardant, Dechlorane Plus. <i>Chemosphere</i> , 2015, 135, 462-466.	4.2	21
52	Metagenomic insights into salinity effect on diversity and abundance of denitrifying bacteria and genes in an expanded granular sludge bed reactor treating high-nitrate wastewater. <i>Chemical Engineering Journal</i> , 2015, 277, 116-123.	6.6	110
53	Copper Oxide and Zinc Oxide Nanomaterials Act as Inhibitors of Multidrug Resistance Transport in Sea Urchin Embryos: Their Role as Chemosensitizers. <i>Environmental Science & Technology</i> , 2015, 49, 5760-5770.	4.6	66
54	Metagenomic insights into tetracycline effects on microbial community and antibiotic resistance of mouse gut. <i>Ecotoxicology</i> , 2015, 24, 2125-2132.	1.1	46

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55	Correlation between microbial community structure and biofouling as determined by analysis of microbial community dynamics. <i>Bioresource Technology</i> , 2015, 197, 99-105.	4.8	80
56	Chemical and bioanalytical assessments on drinking water treatments by quaternized magnetic microspheres. <i>Journal of Hazardous Materials</i> , 2015, 285, 53-60.	6.5	10
57	Reduction in health risk induced by semi-volatile organic compounds and metals in a drinking water treatment plant. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 527-536.	1.8	7
58	Microalga <i>Euglena</i> as a bioindicator for testing genotoxic potentials of organic pollutants in Taihu Lake, China. <i>Ecotoxicology</i> , 2014, 23, 633-640.	1.1	25
59	Arsenic and selenium toxicity and their interactive effects in humans. <i>Environment International</i> , 2014, 69, 148-158.	4.8	322
60	A new polymer-based laccase for decolorization of AO7: Long-term storage and mediator reuse. <i>Bioresource Technology</i> , 2014, 164, 248-253.	4.8	15
61	New Strategy To Enhance Phosphate Removal from Water by Hydrous Manganese Oxide. <i>Environmental Science & Technology</i> , 2014, 48, 5101-5107.	4.6	148
62	Mice In Vivo Toxicity Studies for Monohaloacetamides Emerging Disinfection Byproducts Based on Metabolomic Methods. <i>Environmental Science & Technology</i> , 2014, 48, 8212-8218.	4.6	64
63	A comprehensive insight into bacterial virulence in drinking water using 454 pyrosequencing and Illumina high-throughput sequencing. <i>Ecotoxicology and Environmental Safety</i> , 2014, 109, 15-21.	2.9	74
64	Mouse organ coefficient and abnormal sperm rate analysis with exposure to tap water and source water in Nanjing reach of Yangtze River. <i>Ecotoxicology</i> , 2014, 23, 641-646.	1.1	24
65	Metagenomic profiles and antibiotic resistance genes in gut microbiota of mice exposed to arsenic and iron. <i>Chemosphere</i> , 2014, 112, 1-8.	4.2	101
66	Short-term effects of Dechlorane Plus on the earthworm <i>Eisenia fetida</i> determined by a systems biology approach. <i>Journal of Hazardous Materials</i> , 2014, 273, 239-246.	6.5	60
67	Arsenic induces diabetic effects through beta-cell dysfunction and increased gluconeogenesis in mice. <i>Scientific Reports</i> , 2014, 4, 6894.	1.6	96
68	Enhanced Removal of Fluoride by Polystyrene Anion Exchanger Supported Hydrous Zirconium Oxide Nanoparticles. <i>Environmental Science & Technology</i> , 2013, 47, 9347-9354.	4.6	198
69	Impact of Iron Precipitant on Toxicity of Arsenic in Water: A Combined in Vivo and in Vitro Study. <i>Environmental Science & Technology</i> , 2013, 47, 3432-3438.	4.6	21
70	Evaluation of the Toxic Effects of Municipal Wastewater Effluent on Mice Using Omic Approaches. <i>Environmental Science & Technology</i> , 2013, 47, 9470-9477.	4.6	19
71	Correlation between TCDD acute toxicity and aryl hydrocarbon receptor structure for different mammals. <i>Ecotoxicology and Environmental Safety</i> , 2013, 89, 84-88.	2.9	7
72	Hepatic gene expression analysis of mice exposed to raw water from Meiliang Bay, Lake Taihu, China. <i>Journal of Applied Toxicology</i> , 2013, 33, 1416-1423.	1.4	2

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73	Sewage treatment plant serves as a hot-spot reservoir of integrons and gene cassettes. <i>Journal of Environmental Biology</i> , 2013, 34, 391-9.	0.2	25
74	Evaluating the Transcriptomic and Metabolic Profile of Mice Exposed to Source Drinking Water. <i>Environmental Science & Technology</i> , 2012, 46, 78-83.	4.6	27
75	Responses of Mouse Liver to Dechlorane Plus Exposure by Integrative Transcriptomic and Metabonomic Studies. <i>Environmental Science & Technology</i> , 2012, 46, 10758-10764.	4.6	66
76	Combined toxicity of cadmium and lead on the earthworm <i>Eisenia fetida</i> (Annelida, Oligochaeta). <i>Ecotoxicology and Environmental Safety</i> , 2012, 81, 122-126.	2.9	48
77	Chronic exposure to contaminated drinking water stimulates PPAR expression in mice livers. <i>Chemosphere</i> , 2012, 88, 407-412.	4.2	5
78	Health risk assessment of polycyclic aromatic hydrocarbons in the source water and drinking water of China: Quantitative analysis based on published monitoring data. <i>Science of the Total Environment</i> , 2011, 410-411, 112-118.	3.9	174
79	Assessing the toxicity of ingested Taihu Lake water on mice via hepatic histopathology and matrix metalloproteinase expression. <i>Ecotoxicology</i> , 2011, 20, 1047-1056.	1.1	6
80	NMR-based metabolic profiling for serum of mouse exposed to source water. <i>Ecotoxicology</i> , 2011, 20, 1065-1070.	1.1	3
81	Comparative analysis of binding affinities between styrene and mammalian CYP2E1 by bioinformatics approaches. <i>Ecotoxicology</i> , 2011, 20, 1041-1046.	1.1	4
82	Reproductive toxicity in male mice exposed to Nanjing City tap water. <i>Ecotoxicology</i> , 2011, 20, 1057-1064.	1.1	2
83	Occurrence, abundance and elimination of class 1 integrons in one municipal sewage treatment plant. <i>Ecotoxicology</i> , 2011, 20, 968-973.	1.1	39
84	Risk assessment of polycyclic aromatic hydrocarbons in aquatic ecosystems. <i>Ecotoxicology</i> , 2011, 20, 1124-1130.	1.1	56
85	Preliminary evaluation of gene expression profiles in liver of mice exposed to Taihu Lake drinking water for 90 days. <i>Ecotoxicology</i> , 2011, 20, 1071-1077.	1.1	4
86	Serum biochemical analysis to indicate pathogenic risk on mouse <i>Mus musculus</i> exposure to source of drinking water. <i>Ecotoxicology</i> , 2011, 20, 1078-1082.	1.1	1
87	Integration of gene chip and topological network techniques to screen a candidate biomarker gene (CBG) for predication of the source water carcinogenesis risks on mouse <i>Mus musculus</i> . <i>Ecotoxicology</i> , 2011, 20, 1026-1032.	1.1	2
88	Efficient production of <i>D</i> -glucosaminic acid from <i>D</i> -glucosamine by <i>Pseudomonas putida</i> GNA5. <i>Biotechnology Progress</i> , 2011, 27, 32-37.	1.3	4
89	A metabonomic analysis on health effects of drinking water on male mice (<i>Mus musculus</i>). <i>Journal of Hazardous Materials</i> , 2011, 190, 515-519.	6.5	7
90	Metabolic profiles in serum of mouse after chronic exposure to drinking water. <i>Human and Experimental Toxicology</i> , 2011, 30, 1088-1095.	1.1	3

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91	Health Risk from Exposure of Organic Pollutants Through Drinking Water Consumption in Nanjing, China. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2010, 84, 46-50.	1.3	90
92	Toxicity of purified terephthalic acid manufacturing wastewater on reproductive system of male mice (<i>Mus musculus</i>). <i>Journal of Hazardous Materials</i> , 2010, 176, 300-305.	6.5	35
93	Genomic expression profiles in liver of mice exposed to purified terephthalic acid manufacturing wastewater. <i>Journal of Hazardous Materials</i> , 2010, 181, 1121-1126.	6.5	15
94	Influences of hydraulic loading rate on SVOC removal and microbial community structure in drinking water treatment biofilters. <i>Journal of Hazardous Materials</i> , 2010, 178, 652-657.	6.5	25
95	Effects of Yangtze River source water on genomic polymorphisms of male mice detected by RAPD. <i>Human and Experimental Toxicology</i> , 2010, 29, 113-120.	1.1	3
96	Computational studies of interactions between endocrine disrupting chemicals and androgen receptor of different vertebrate species. <i>Chemosphere</i> , 2010, 80, 535-541.	4.2	18
97	Gene expression profiles in liver of mouse after chronic exposure to drinking water. <i>Journal of Applied Toxicology</i> , 2009, 29, 569-577.	1.4	16
98	Semi-volatile organic compounds and trace elements in the Yangtze River source of drinking water. <i>Ecotoxicology</i> , 2009, 18, 707-714.	1.1	42
99	Class 1 integronase gene and tetracycline resistance genes <i>tetA</i> and <i>tetC</i> in different water environments of Jiangsu Province, China. <i>Ecotoxicology</i> , 2009, 18, 652-660.	1.1	83
100	Extracellular proteomic analysis for degradation of PAHs in source of drinking water with fusant strains. <i>Ecotoxicology</i> , 2009, 18, 736-741.	1.1	2
101	Toxicity of the Yangtze River source of drinking water on reproductive system of male mice (<i>Mus</i>) Tj ETQq1 1 0.784314 rgBT/Overlode	1.1	14
102	Effects of the Yangtze River source of drinking water on metabolites of <i>Mus musculus</i> . <i>Ecotoxicology</i> , 2009, 18, 722-728.	1.1	8
103	Transcriptional toxicity of the Yangtze River source water on mouse (<i>Mus musculus</i>) detected by cDNA microarray. <i>Ecotoxicology</i> , 2009, 18, 715-721.	1.1	12
104	Degradation of benzo(a)pyrene in Yangtze River source water with functional strains. <i>Ecotoxicology</i> , 2009, 18, 742-747.	1.1	9
105	Identification of protoplast fusion strain Fhhh by randomly amplified polymorphic DNA. <i>World Journal of Microbiology and Biotechnology</i> , 2009, 25, 1181-1188.	1.7	9
106	Preliminary Risk Assessment of Trace Metal Pollution in Surface Water from Yangtze River in Nanjing Section, China. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2009, 82, 405-409.	1.3	328
107	Multivariate statistical study of organic pollutants in Nanjing reach of Yangtze River. <i>Journal of Hazardous Materials</i> , 2009, 169, 1093-1098.	6.5	55
108	Genetic analysis of protoplast fusant Xhhh constructed for pharmaceutical wastewater treatment. <i>Bioresource Technology</i> , 2009, 100, 1910-1914.	4.8	16

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109	In silico predication of nuclear hormone receptors for organic pollutants by homology modeling and molecular docking. <i>Toxicology Letters</i> , 2009, 191, 69-73.	0.4	35
110	A Comparative Analysis of Environmental Quality Assessment Methods for Heavy Metal-Contaminated Soils. <i>Pedosphere</i> , 2008, 18, 344-352.	2.1	51