

Bing Wu

List of Publications by Year in descending order

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110
papers

4,904
citations

87723

38
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98622

67
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110
all docs

110
docs citations

110
times ranked

6413
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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 |
| 2 | Arsenic and selenium toxicity and their interactive effects in humans. <i>Environment International</i> , 2014, 69, 148-158. | 4.8 | 322 |
| 3 | 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 |
| 4 | Nanomaterials-enabled water and wastewater treatment. <i>NanoImpact</i> , 2016, 3-4, 22-39. | 2.4 | 286 |
| 5 | 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 |
| 6 | 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 |
| 7 | New Strategy To Enhance Phosphate Removal from Water by Hydrous Manganese Oxide. <i>Environmental Science & Technology</i> , 2014, 48, 5101-5107. | 4.6 | 148 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | Arsenic induces diabetic effects through beta-cell dysfunction and increased gluconeogenesis in mice. <i>Scientific Reports</i> , 2014, 4, 6894. | 1.6 | 96 |
| 13 | 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 |
| 14 | Class 1 integronase gene and tetracycline resistance genes tetA and tetC in different water environments of Jiangsu Province, China. <i>Ecotoxicology</i> , 2009, 18, 652-660. | 1.1 | 83 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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|----|---|-----|-----------|
| 19 | 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 |
| 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 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | Risk assessment of polycyclic aromatic hydrocarbons in aquatic ecosystems. <i>Ecotoxicology</i> , 2011, 20, 1124-1130. | 1.1 | 56 |
| 25 | 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 |
| 26 | Low Concentrations of Silver Nanoparticles and Silver Ions Perturb the Antioxidant Defense System and Nitrogen Metabolism in <i>N-fixing Cyanobacteria</i> . <i>Environmental Science & Technology</i> , 2020, 54, 15996-16005. | 4.6 | 56 |
| 27 | 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 |
| 28 | 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 |
| 29 | Efficient Reductive Destruction of Perfluoroalkyl Substances under Self-Assembled Micelle Confinement. <i>Environmental Science & Technology</i> , 2020, 54, 5178-5185. | 4.6 | 52 |
| 30 | A Comparative Analysis of Environmental Quality Assessment Methods for Heavy Metal-Contaminated Soils. <i>Pedosphere</i> , 2008, 18, 344-352. | 2.1 | 51 |
| 31 | 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 |
| 32 | 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 |
| 33 | Metagenomic insights into tetracycline effects on microbial community and antibiotic resistance of mouse gut. <i>Ecotoxicology</i> , 2015, 24, 2125-2132. | 1.1 | 46 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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 |

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|----|--|-----|-----------|
| 37 | Occurrence, abundance and elimination of class 1 integrons in one municipal sewage treatment plant. <i>Ecotoxicology</i> , 2011, 20, 968-973. | 1.1 | 39 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | Heterogeneity effects of nanoplastics and lead on zebrafish intestinal cells identified by single-cell sequencing. <i>Chemosphere</i> , 2022, 289, 133133. | 4.2 | 28 |
| 47 | 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 |
| 48 | 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 |
| 49 | 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 |
| 50 | 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | Regulation of Photosynthesis in Bloom-Forming Cyanobacteria with the Simplest β -Diketone. <i>Environmental Science & Technology</i> , 2021, 55, 14173-14184. | 4.6 | 24 |
| 54 | 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 |

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|----|--|------|-----------|
| 55 | 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 |
| 56 | Comparative toxicity of chloro- and bromo-nitromethanes in mice based on a metabolomic method. <i>Chemosphere</i> , 2017, 185, 20-28. | 4.2 | 22 |
| 57 | 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 |
| 58 | 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 |
| 59 | Potential genotoxicity and risk assessment of a chlorinated flame retardant, Dechlorane Plus. <i>Chemosphere</i> , 2015, 135, 462-466. | 4.2 | 21 |
| 60 | 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 |
| 61 | 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 |
| 62 | 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 |
| 63 | 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 |
| 64 | Insight into mature biofilm quorum sensing in full-scale wastewater treatment plants. <i>Chemosphere</i> , 2019, 234, 310-317. | 4.2 | 20 |
| 65 | 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 |
| 66 | 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 |
| 67 | 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 |
| 68 | 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 |
| 69 | 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 |
| 70 | 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 |
| 71 | 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 |
| 72 | 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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|----|---|-----|-----------|
| 73 | 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 |
| 74 | 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 |
| 75 | Toxicity of the Yangtze River source of drinking water on reproductive system of male mice (Mus) Tj ETQq1 1 0.784314 rgBT /Overlo | 1.1 | 14 |
| 76 | 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 |
| 77 | 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 |
| 78 | 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 |
| 79 | Transcriptional toxicity of the Yangtze River source water on mouse (Mus musculus) detected by cDNA microarray. <i>Ecotoxicology</i> , 2009, 18, 715-721. | 1.1 | 12 |
| 80 | 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 |
| 81 | Degradation of benzo(a)pyrene in Yangtze River source water with functional strains. <i>Ecotoxicology</i> , 2009, 18, 742-747. | 1.1 | 9 |
| 82 | 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 |
| 83 | 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 |
| 84 | Effects of the Yangtze River source of drinking water on metabolites of Mus musculus. <i>Ecotoxicology</i> , 2009, 18, 722-728. | 1.1 | 8 |
| 85 | 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 |
| 86 | 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 |
| 87 | A metabonomic analysis on health effects of drinking water on male mice (Mus musculus). <i>Journal of Hazardous Materials</i> , 2011, 190, 515-519. | 6.5 | 7 |
| 88 | 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 |
| 89 | 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 |
| 90 | 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 |

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|-----|--|-----|-----------|
| 91 | 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 |
| 92 | 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 |
| 93 | 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 |
| 94 | Chronic exposure to contaminated drinking water stimulates PPAR expression in mice livers. <i>Chemosphere</i> , 2012, 88, 407-412. | 4.2 | 5 |
| 95 | 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 |
| 96 | 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 |
| 97 | Comparative analysis of binding affinities between styrene and mammalian CYP2E1 by bioinformatics approaches. <i>Ecotoxicology</i> , 2011, 20, 1041-1046. | 1.1 | 4 |
| 98 | 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 |
| 99 | Efficient production of D-glucosaminic acid from D-glucosamine by <i>Pseudomonas putida</i> GNA5. <i>Biotechnology Progress</i> , 2011, 27, 32-37. | 1.3 | 4 |
| 100 | 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 |
| 101 | NMR-based metabolic profiling for serum of mouse exposed to source water. <i>Ecotoxicology</i> , 2011, 20, 1065-1070. | 1.1 | 3 |
| 102 | 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 |
| 103 | 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 |
| 104 | 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 |
| 105 | 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 |
| 106 | Reproductive toxicity in male mice exposed to Nanjing City tap water. <i>Ecotoxicology</i> , 2011, 20, 1057-1064. | 1.1 | 2 |
| 107 | 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 |
| 108 | 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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|-----|--|-----|-----------|
| 109 | 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 |
| 110 | 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 |