Bing Li

List of Publications by Citations

97 papers	6,661 citations	40 h-index	81 g-index
100 ext. papers	8,671 ext. citations	10.1 avg, IF	6.4 L-index

#	Paper	IF	Citations
97	Biodegradation and adsorption of antibiotics in the activated sludge process. *Environmental Science & Technology*, **2010**, 44, 3468-73	10.3	599
96	Metagenomic and network analysis reveal wide distribution and co-occurrence of environmental antibiotic resistance genes. *ISME Journal*, **2015**, 9, 2490-502	11.9	597
95	Continental-scale pollution of estuaries with antibiotic resistance genes. *Nature Microbiology*, **2017**, 2, 16270	26.6	530
94	Fate of antibiotic resistance genes in sewage treatment plant revealed by metagenomic approach. *Water Research*, **2014**, 62, 97-106	12.5	327
93	Bacterial Community Shift Drives Antibiotic Resistance Promotion during Drinking Water Chlorination. *Environmental Science & Technology*, **2015**, 49, 12271-9	10.3	271
92	Exploring variation of antibiotic resistance genes in activated sludge over a four-year period through a metagenomic approach. *Environmental Science & Technology*, **2013**, 47, 10197-205	10.3	223
91	Antibiotic resistance genes and human bacterial pathogens: Co-occurrence, removal, and enrichment in municipal sewage sludge digesters. *Water Research*, **2016**, 91, 1-10	12.5	212
90	Occurrence, Transformation, and Fate of Antibiotics in Municipal Wastewater Treatment Plants. *Critical Reviews in Environmental Science and Technology*, **2011**, 41, 951-998	11.1	175
89	Metagenomic Assembly Reveals Hosts of Antibiotic Resistance Genes and the Shared Resistome in Pig, Chicken, and Human Feces. *Environmental Science & Technology*, **2016**, 50, 420-7	10.3	168
88	Fate of antibiotic resistance genes and their associations with bacterial community in livestock breeding wastewater and its receiving river water. *Water Research*, **2017**, 124, 259-268	12.5	167
87	Rapid analysis of 21 antibiotics of multiple classes in municipal wastewater using ultra performance liquid chromatography-tandem mass spectrometry. *Analytica Chimica Acta*, **2009**, 645, 64-72	6.6	167
86	Metagenomics of urban sewage identifies an extensively shared antibiotic resistome in China. *Microbiome*, **2017**, 5, 84	16.6	161
85	ARGs-OAP: online analysis pipeline for antibiotic resistance genes detection from metagenomic data using an integrated structured ARG-database. *Bioinformatics*, **2016**, 32, 2346-51	7.2	142
84	Catalogue of antibiotic resistome and host-tracking in drinking water deciphered by a large scale survey. *Microbiome*, **2017**, 5, 154	16.6	141
83	Mass flows and removal of antibiotics in two municipal wastewater treatment plants. *Chemosphere*, **2011**, 83, 1284-9	8.4	141
82	Deciphering of microbial community and antibiotic resistance genes in activated sludge reactors under high selective pressure of different antibiotics. *Water Research*, **2019**, 151, 388-402	12.5	120
81	Metagenomics shows that low-energy anaerobic-aerobic treatment reactors reduce antibiotic resistance gene levels from domestic wastewater. *Environmental Science & Technology*, **2015**, 49, 2577-84	10.3	115

80	Impact of dairy manure pre-application treatment on manure composition, soil dynamics of antibiotic resistance genes, and abundance of antibiotic-resistance genes on vegetables at harvest. *Science of the Total Environment*, **2017**, 581-582, 32-39	10.2	108
79	Comammox in drinking water systems. *Water Research*, **2017**, 116, 332-341	12.5	106
78	Characterization of tetracycline resistant bacterial community in saline activated sludge using batch stress incubation with high-throughput sequencing analysis. *Water Research*, **2013**, 47, 4207-16	12.5	106
77	Antibiotic Resistance Genes and Correlations with Microbial Community and Metal Resistance Genes in Full-Scale Biogas Reactors As Revealed by Metagenomic Analysis. *Environmental Science & Technology*, **2017**, 51, 4069-4080	10.3	104
76	Aerobic Degradation of Sulfadiazine by Arthrobacter spp.: Kinetics, Pathways, and Genomic Characterization. *Environmental Science & Technology*, **2016**, 50, 9566-75	10.3	97
75	Tracking antibiotic resistome during wastewater treatment using high throughput quantitative PCR. *Environment International*, **2018**, 117, 146-153	12.9	93
74	Profile and Fate of Bacterial Pathogens in Sewage Treatment Plants Revealed by High-Throughput Metagenomic Approach. *Environmental Science & Technology*, **2015**, 49, 10492-502	10.3	87
73	Antibiotic resistome in landfill leachate from different cities of China deciphered by metagenomic analysis. *Water Research*, **2018**, 134, 126-139	12.5	83
72	Antibiotic resistome in a large-scale healthy human gut microbiota deciphered by metagenomic and network analyses. *Environmental Microbiology*, **2018**, 20, 355-368	5.2	78
71	Gradient microfluidics enables rapid bacterial growth inhibition testing. *Analytical Chemistry*, **2014**, 86, 3131-7	7.8	67
70	Performance of nanofiltration membrane in rejecting trace organic compounds: Experiment and model prediction. *Desalination*, **2015**, 370, 7-16	10.3	64
69	Bacteria That Make a Meal of Sulfonamide Antibiotics: Blind Spots and Emerging Opportunities. *Environmental Science & Technology*, **2018**, 52, 3854-3868	10.3	63
68	Abundant rifampin resistance genes and significant correlations of antibiotic resistance genes and plasmids in various environments revealed by metagenomic analysis. *Applied Microbiology and Biotechnology*, **2014**, 98, 5195-204	5.7	62
67	Impacts of Pb and SO Poisoning on CeO-WO/TiO-SiO SCR Catalyst. *Environmental Science & Technology*, **2017**, 51, 11943-11949	10.3	61
66	Different removal behaviours of multiple trace antibiotics in municipal wastewater chlorination. *Water Research*, **2013**, 47, 2970-82	12.5	60
65	New insights into antibiotic resistome in drinking water and management perspectives: A metagenomic based study of small-sized microbes. *Water Research*, **2019**, 152, 191-201	12.5	60
64	Direct rapid analysis of multiple PPCPs in municipal wastewater using ultrahigh performance liquid chromatography-tandem mass spectrometry without SPE pre-concentration. *Analytica Chimica Acta* , **2012**, 738, 59-68	6.6	59
63	Enhanced anoxic bioremediation of PAHs-contaminated sediment. *Bioresource Technology*, **2012**, 104, 51-8	11	56

62	Metagenomic profiles of antibiotic resistance genes in paddy soils from South China. *FEMS Microbiology Ecology*, **2016**, 92,	4.3	51
61	An integrated meta-omics approach reveals substrates involved in synergistic interactions in a bisphenol A (BPA)-degrading microbial community. *Microbiome*, **2019**, 7, 16	16.6	49
60	pH significantly affects removal of trace antibiotics in chlorination of municipal wastewater. *Water Research*, **2012**, 46, 3703-13	12.5	48
59	Removal mechanisms and kinetics of trace tetracycline by two types of activated sludge treating freshwater sewage and saline sewage. *Environmental Science and Pollution Research*, **2013**, 20, 3024-33	5.1	47
58	Deciphering the mobility and bacterial hosts of antibiotic resistance genes under antibiotic selection pressure by metagenomic assembly and binning approaches. *Water Research*, **2020**, 186, 116318	12.5	44
57	Impact of pre-application treatment on municipal sludge composition, soil dynamics of antibiotic resistance genes, and abundance of antibiotic-resistance genes on vegetables at harvest. *Science of the Total Environment*, **2017**, 587-588, 214-222	10.2	39
56	A novel microfluidic system enables visualization and analysis of antibiotic resistance gene transfer to activated sludge bacteria in biofilm. *Science of the Total Environment*, **2018**, 642, 582-590	10.2	34
55	Genomic characterization, kinetics, and pathways of sulfamethazine biodegradation by Paenarthrobacter sp. A01. *Environment International*, **2019**, 131, 104961	12.9	33
54	Performance and bacterial community of moving bed biofilm reactors with various biocarriers treating primary wastewater effluent with a low organic strength and low C/N ratio. *Bioresource Technology*, **2019**, 287, 121424	11	32
53	Real-Time Study of Rapid Spread of Antibiotic Resistance Plasmid in Biofilm Using Microfluidics. *Environmental Science & Technology*, **2018**, 52, 11132-11141	10.3	32
52	Free-living bacteria and potential bacterial pathogens in sewage treatment plants. *Applied Microbiology and Biotechnology*, **2018**, 102, 2455-2464	5.7	31
51	Engineering surface functional groups on mesoporous silica: towards a humidity-resistant hydrophobic adsorbent. *Journal of Materials Chemistry A*, **2018**, 6, 13769-13777	13	31
50	Biotransformation and adsorption of pharmaceutical and personal care products by activated sludge after correcting matrix effects. *Science of the Total Environment*, **2016**, 544, 980-6	10.2	29
49	Bacterial Community Shift and Coexisting/Coexcluding Patterns Revealed by Network Analysis in a Uranium-Contaminated Site after Bioreduction Followed by Reoxidation. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	26
48	Removal of antibiotic resistance genes in four full-scale membrane bioreactors. *Science of the Total Environment*, **2019**, 653, 112-119	10.2	24
47	Metagenomic and network analyses decipher profiles and co-occurrence patterns of antibiotic resistome and bacterial taxa in the reclaimed wastewater distribution system. *Journal of Hazardous Materials*, **2020**, 400, 123170	12.8	23
46	New insights into the chlorination of sulfonamide: Smiles-type rearrangement, desulfation, and product toxicity. *Chemical Engineering Journal*, **2018**, 331, 785-793	14.7	23
45	Acid-induced unfolding mechanism of recombinant human endostatin. *Biochemistry*, **2004**, 43, 2550-7	3.2	23

44	Microbial community composition and metabolic functions in landfill leachate from different landfills of China. *Science of the Total Environment*, **2021**, 767, 144861	10.2	23
43	Single cell growth rate and morphological dynamics revealing an "opportunistic" persistence. *Analyst, The*, **2014**, 139, 3305-13	5	21
42	Acidogenic phosphorus recovery from the wastewater sludge of the membrane bioreactor systems with different iron-dosing modes. *Bioresource Technology*, **2019**, 280, 360-370	11	20
41	Impacts of human activities on distribution of sulfate-reducing prokaryotes and antibiotic resistance genes in marine coastal sediments of Hong Kong. *FEMS Microbiology Ecology*, **2016**, 92,	4.3	20
40	High-efficiency biodegradation of chloramphenicol by enriched bacterial consortia: Kinetics study and bacterial community characterization. *Journal of Hazardous Materials*, **2020**, 384, 121344	12.8	20
39	Taxonomic relatedness and environmental pressure synergistically drive the primary succession of biofilm microbial communities in reclaimed wastewater distribution systems. *Environment International*, **2019**, 124, 25-37	12.9	18
38	Reponses of microbial community and antibiotic resistance genes to the selection pressures of ampicillin, cephalexin and chloramphenicol in activated sludge reactors. *Science of the Total Environment*, **2021**, 755, 142632	10.2	18
37	The bacterial community significantly promotes cast iron corrosion in reclaimed wastewater distribution systems. *Microbiome*, **2018**, 6, 222	16.6	18
36	An integrated membrane bioreactor system with iron-dosing and side-stream co-fermentation for enhanced nutrient removal and recovery: System performance and microbial community analysis. *Bioresource Technology*, **2018**, 260, 248-255	11	15
35	Temporal dynamics of activated sludge bacterial communities in two diversity variant full-scale sewage treatment plants. *Applied Microbiology and Biotechnology*, **2018**, 102, 9379-9388	5.7	15
34	High-Resolution Temporal and Spatial Patterns of Virome in Wastewater Treatment Systems. *Environmental Science & Technology*, **2018**, 52, 10337-10346	10.3	15
33	Sewage from Airplanes Exhibits High Abundance and Diversity of Antibiotic Resistance Genes. *Environmental Science & Technology*, **2019**, 53, 13898-13905	10.3	14
32	Conjugative potential of antibiotic resistance plasmids to activated sludge bacteria from wastewater treatment plants. *International Biodeterioration and Biodegradation*, **2019**, 138, 33-40	4.8	14
31	Enhanced biogas production and in situ ammonia recovery from food waste using a gas-membrane absorption anaerobic reactor. *Bioresource Technology*, **2019**, 292, 121864	11	13
30	Two-stage anaerobic digestion of food waste coupled with in situ ammonia recovery using gas membrane absorption: Performance and microbial community. *Bioresource Technology*, **2020**, 297, 122458	11	13
29	Transformation of Fe-P Complexes in Bioreactors and P Recovery from Sludge: Investigation by XANES Spectroscopy. *Environmental Science & Technology*, **2020**, 54, 4641-4650	10.3	12
28	Chloramphenicol biodegradation by enriched bacterial consortia and isolated strain Sphingomonas sp. CL5.1: The reconstruction of a novel biodegradation pathway. *Water Research*, **2020**, 187, 116397	12.5	11
27	Metagenomic analysis reveals the fate of antibiotic resistance genes in two-stage and one-stage anaerobic digestion of waste activated sludge. *Journal of Hazardous Materials*, **2021**, 406, 124595	12.8	10

26	Selective enrichment of comammox from activated sludge using antibiotics. *Water Research*, **2021**, 197, 117087	12.5	10
25	Passage and community changes of filterable bacteria during microfiltration of a surface water supply. *Environment International*, **2019**, 131, 104998	12.9	8
24	Selective Ammonium Removal from Synthetic Wastewater by Flow-Electrode Capacitive Deionization Using a Novel KTiO-Activated Carbon Mixture Electrode. *Environmental Science & Technology*, **2020**, 54, 12723-12731	10.3	7
23	Thermal Hydrolysis of Wastewater Sludge Followed by Fungal Fermentation for Organic Recovery and Hyphae Fiber Production. *Engineering*, **2021**, 7, 203-211	9.7	7
22	Comparison of chemical and biological degradation of sulfonamides: Solving the mystery of sulfonamide transformation. *Journal of Hazardous Materials*, **2021**, 127661	12.8	6
21	Distribution of antibiotic resistance genes and their association with bacteria and viruses in decentralized sewage treatment facilities. *Frontiers of Environmental Science and Engineering*, **2022**, 16, 35	5.8	5
20	Occurrence and Fate of Ultramicrobacteria in a Full-Scale Drinking Water Treatment Plant. *Frontiers in Microbiology*, **2018**, 9, 2922	5.7	5
19	Enhanced Photoelectric Conversion of Dye-sensitized Solar Cell by Addition of Inorganic Particles. *Chinese Journal of Chemical Physics*, **2007**, 20, 816-820	0.9	4
18	Recovery of high-qualitied Genomes from a deep-inland Salt Lake Using BASALT		4
17	Uranium sequestration in sediment at an iron-rich contaminated site at Oak Ridge, Tennessee via. bioreduction followed by reoxidation. *Journal of Environmental Sciences*, **2019**, 85, 156-167	6.4	3
16	Fungal hypha-derived freestanding porous carbon pad as a high-capacity electrode for water desalination in membrane capacitive deionization. *Chemical Engineering Journal*, **2021**, 433, 133781	14.7	3
15	Using general computational chemistry strategy to unravel the reactivity of emerging pollutants: An example of sulfonamide chlorination. *Water Research*, **2021**, 202, 117391	12.5	3
14	Metagenomics analysis revealing the occurrence of antibiotic resistome in salt lakes. *Science of the Total Environment*, **2021**, 790, 148262	10.2	3
13	Preparation of Fe2O3 Catalysts and their deNOx Performance: Effects of Precipitation Conditions. *Chemical Engineering and Technology*, **2018**, 41, 1019-1026	2	2
12	The occurrence of antibiotic resistance genes in the microbiota of yak, beef and dairy cattle characterized by a metagenomic approach. *Journal of Antibiotics*, **2021**, 74, 508-518	3.7	2
11	Tailoring the coordination environment of cobalt in a single-atom catalyst through phosphorus doping for enhanced activation of peroxymonosulfate and thus efficient degradation of sulfadiazine. *Applied Catalysis B: Environmental*, **2022**, 312, 121408	21.8	2
10	Occurrence and Distribution of Antibiotic Resistance Genes in Municipal Wastewater Treatment Plants with D-Type Filters. *Water (Switzerland)*, **2021**, 13, 3398	3	1
9	Estuarine salinity gradient governs sedimentary bacterial community but not antibiotic resistance gene profile. *Science of the Total Environment*, **2022**, 806, 151390	10.2	1

8	Genome-centric metagenomics provides new insights into the microbial community and metabolic potential of landfill leachate microbiota. *Science of the Total Environment*, **2021**, 816, 151635	10.2	1
7	New insights into thiamphenicol biodegradation mechanism by Sphingomonas sp. CL5.1 deciphered through metabolic and proteomic analysis.. *Journal of Hazardous Materials*, **2021**, 426, 128101	12.8	1
6	Hydrothermal treatment and biorefinery of sewage sludge for waste reduction and production of fungal hyphae fibers and volatile fatty acids. *Journal of Cleaner Production*, **2021**, 289, 125715	10.3	1
5	Specific Denitrifying and Dissimilatory Nitrate Reduction to Ammonium Bacteria Assisted the Recovery of Anammox Community From Nitrite Inhibition.. *Frontiers in Microbiology*, **2021**, 12, 781156	5.7	0
4	Iron-enhanced primary sedimentation and acidogenic sludge fermentation to achieve self-sufficient organic carbon supply for enhanced nutrient removal in wastewater treatment?. *Resources, Conservation and Recycling*, **2021**, 164, 105220	11.9	0
3	Simultaneous high-efficiency removal of sulfamethoxazole and zinc (II) from livestock and poultry breeding wastewater by a novel dual-functional bacterium, Bacillus sp. SDB4. *Environmental Science and Pollution Research*, **2021**, 1	5.1	0
2	Nationwide biogeography and health implications of bacterial communities in household drinking water.. *Water Research*, **2022**, 215, 118238	12.5	0
1	How heavy metal stress promotes dissemination of antibiotic resistance genes in the activated sludge process. *Journal of Hazardous Materials*, **2022**, 129279	12.8	0