Shuai Zhang

List of Publications by Year in Descending Order

69 papers	1,928 citations	28 h-index	42 g-index
74 ext. papers	2,542 ext. citations	7.6 avg, IF	5.42 L-index

#	Paper	IF	Citations
69	Increase of antibiotic resistance genes via horizontal transfer in single- and two-chamber microbial electrolysis cells.. *Environmental Science and Pollution Research*, **2022**, 29, 36216	5.1	0
68	Microplastics can selectively enrich intracellular and extracellular antibiotic resistant genes and shape different microbial communities in aquatic systems.. *Science of the Total Environment*, **2022**, 153488	10.2	0
67	Variation in the microbial community in bioelectrochemical systems treating sulfamethoxazole wastewater Identifying key operating parameters and revealing sul gene-harboring host bacteria. *Journal of Water Process Engineering*, **2022**, 46, 102572	6.7	0
66	Application of a Molybdenum Carbide Electrode Enhanced the Biodegradability of Wheat Straw. *Journal of Electronic Materials*, **2022**, 51, 163	1.9	1
65	Insights of metallic nanoparticles and ions in accelerating the bacterial uptake of antibiotic resistance genes. *Journal of Hazardous Materials*, **2022**, 421, 126728	12.8	6
64	Control of maximum water age based on total chlorine decay in secondary water supply system. *Chemosphere*, **2022**, 287, 132198	8.4	2
63	Inactivation of antibiotic resistant bacterium Escherichia coli by electrochemical disinfection on molybdenum carbide electrode. *Chemosphere*, **2022**, 287, 132398	8.4	2
62	Simultaneous removal of antibiotic resistant bacteria and antibiotic resistance genes by molybdenum carbide assisted electrochemical disinfection.. *Journal of Hazardous Materials*, **2022**, 432, 128733	12.8	0
61	Effects of voltage on the emergence and spread of antibiotic resistance genes in microbial electrolysis cells: From mutation to horizontal gene transfer. *Chemosphere*, **2021**, 291, 132703	8.4	1
60	Non-antibiotic pharmaceuticals promote the transmission of multidrug resistance plasmids through intra- and intergenera conjugation. *ISME Journal*, **2021**, 15, 2493-2508	11.9	15
59	Chlorine disinfection facilitates natural transformation through ROS-mediated oxidative stress. *ISME Journal*, **2021**, 15, 2969-2985	11.9	23
58	Mobile Genetic Elements Drive the Antibiotic Resistome Alteration in Freshwater Shrimp Aquaculture. *Water (Switzerland)*, **2021**, 13, 1461	3	0
57	The synergistic effect in metal-free graphene oxide coupled graphitic carbon nitride/light/peroxymonosulfate system: Photothermal effect and catalyst stability. *Carbon*, **2021**, 178, 81-91	10.4	4
56	Role of electrode materials on performance and microbial characteristics in the constructed wetland coupled microbial fuel cell (CW-MFC): A review. *Journal of Cleaner Production*, **2021**, 301, 126951	10.3	20
55	Phase segregation mechanism of NiFe2O4 oxygen carrier in chemical looping process. *International Journal of Energy Research*, **2021**, 45, 3305-3314	4.5	11
54	Hybrid Method to Identify Second-trip Echoes Using Phase Modulation and Polarimetric Technology. *Advances in Atmospheric Sciences*, **2021**, 38, 480-492	2.9	1
53	Federated Learning: A Distributed Shared Machine Learning Method. *Complexity*, **2021**, 2021, 1-20	1.6	8

52	The cooperation of photothermal conversion, photocatalysis and sulfate radical-based advanced oxidation process on few-layered graphite modified graphitic carbon nitride. *Chemical Engineering Journal*, **2021**, 417, 127993	14.7	4
51	Interactions of heavy metal elements across sediment-water interface in Lake Jiaogang. *Environmental Pollution*, **2021**, 286, 117578	9.3	6
50	Aerobic Denitrification Is Enhanced Using Biocathode of SMFC in Low-Organic Matter Wastewater. *Water (Switzerland)*, **2021**, 13, 3512	3	0
49	Non-antibiotic pharmaceuticals enhance the transmission of exogenous antibiotic resistance genes through bacterial transformation. *ISME Journal*, **2020**, 14, 2179-2196	11.9	53
48	A review of bioelectrochemical systems for antibiotic removal: Efficient antibiotic removal and dissemination of antibiotic resistance genes. *Journal of Water Process Engineering*, **2020**, 37, 101421	6.7	20
47	Spinel-Structured Ternary Ferrites as Effective Agents for Chemical Looping CO2 Splitting. *Industrial & Engineering Chemistry Research*, **2020**, 59, 6924-6930	3.9	11
46	Constructed Wetland Revealed Efficient Sulfamethoxazole Removal but Enhanced the Spread of Antibiotic Resistance Genes. *Molecules*, **2020**, 25,	4.8	14
45	Triclosan at environmental concentrations can enhance the spread of extracellular antibiotic resistance genes through transformation. *Science of the Total Environment*, **2020**, 713, 136621	10.2	30
44	Accumulation of sulfonamide resistance genes and bacterial community function prediction in microbial fuel cell-constructed wetland treating pharmaceutical wastewater. *Chemosphere*, **2020**, 248, 126014	8.4	43
43	Bio-pretreatment promote hydrolysis and acidification of oilseed rape straw: Roles of fermentation broth and micro-oxygen. *Bioresource Technology*, **2020**, 308, 123272	11	15
42	Tuning the Support Properties toward Higher CO Conversion during a Chemical Looping Scheme. *Environmental Science & Technology*, **2020**, 54, 12467-12475	10.3	15
41	Effect of the coexposure of sulfadiazine, ciprofloxacin and zinc on the fate of antibiotic resistance genes, bacterial communities and functions in three-dimensional biofilm-electrode reactors. *Bioresource Technology*, **2020**, 296, 122290	11	20
40	New insights of the bacterial response to exposure of differently sized silver nanomaterials. *Water Research*, **2020**, 169, 115205	12.5	15
39	Effect of calcination condition on the performance of iron ore in chemical-looping combustion. *Fuel Processing Technology*, **2020**, 203, 106395	7.2	5
38	Effects of graphite and Mn ore media on electro-active bacteria enrichment and fate of antibiotic and corresponding resistance gene in up flow microbial fuel cell constructed wetland. *Water Research*, **2019**, 165, 114988	12.5	56
37	Copper nanoparticles and copper ions promote horizontal transfer of plasmid-mediated multi-antibiotic resistance genes across bacterial genera. *Environment International*, **2019**, 129, 478-487	12.9	78
36	Enhanced hydrogen production performance at intermediate temperatures through the synergistic effects of binary oxygen carriers. *Applied Energy*, **2019**, 252, 113454	10.7	21
35	Improved Assimilation of Fengyun-3 Satellite-Based Snow Cover Fraction in Northeastern China. *Journal of Meteorological Research*, **2019**, 33, 960-975	2.3	1

34	Inhibition of methanogens decreased sulfadiazine removal and increased antibiotic resistance gene development in microbial fuel cells. *Bioresource Technology*, **2019**, 281, 188-194	11	28
33	Enhanced degradation of bisphenol A and ibuprofen by an up-flow microbial fuel cell-coupled constructed wetland and analysis of bacterial community structure. *Chemosphere*, **2019**, 217, 599-608	8.4	48
32	Azo dye as part of co-substrate in a biofilm electrode reactor-microbial fuel cell coupled system and an analysis of the relevant microorganisms. *Chemosphere*, **2019**, 216, 742-748	8.4	29
31	Vertical up-flow constructed wetlands exhibited efficient antibiotic removal but induced antibiotic resistance genes in effluent. *Chemosphere*, **2018**, 203, 434-441	8.4	57
30	Effects of voltage on sulfadiazine degradation and the response of sul genes and microbial communities in biofilm-electrode reactors. *Ecotoxicology and Environmental Safety*, **2018**, 151, 272-278	7	27
29	A system composed of a biofilm electrode reactor and a microbial fuel cell-constructed wetland exhibited efficient sulfamethoxazole removal but induced sul genes. *Bioresource Technology*, **2018**, 256, 224-231	11	50
28	Effects ofdirect current on Klebsiella spp. viability and corresponding resistance gene expression in simulative bio-electrochemical reactors. *Chemosphere*, **2018**, 196, 251-259	8.4	18
27	Comparison of pyrite cinder with synthetic and natural iron-based oxygen carriers in coal-fueled chemical-looping combustion **2018**, 8, 106-119		13
26	Simulated wastewater reduced Klebsiella michiganensis strain LH-2 viability and corresponding antibiotic resistance gene abundance in bio-electrochemical reactors. *Ecotoxicology and Environmental Safety*, **2018**, 162, 376-382	7	5
25	Identifying iron-based oxygen carrier reduction during biomass chemical looping gasification on a thermogravimetric fixed-bed reactor. *Applied Energy*, **2018**, 229, 404-412	10.7	39
24	Azo dye degradation pathway and bacterial community structure in biofilm electrode reactors. *Chemosphere*, **2018**, 208, 219-225	8.4	43
23	Fate of sulfadiazine and its corresponding resistance genes in up-flow microbial fuel cell coupled constructed wetlands: Effects of circuit operation mode and hydraulic retention time. *Chemical Engineering Journal*, **2018**, 350, 920-929	14.7	60
22	Enhanced hydrogen production performance through controllable redox exsolution within CoFeAlOx spinel oxygen carrier materials. *Journal of Materials Chemistry A*, **2018**, 6, 11306-11316	13	120
21	A continuous flow MFC-CW coupled with a biofilm electrode reactor to simultaneously attenuate sulfamethoxazole and its corresponding resistance genes. *Science of the Total Environment*, **2018**, 637-638, 295-305	10.2	38
20	Coupled Effects of Electrical Stimulation and Antibiotics on Microbial Community in Three-Dimensional Biofilm-Electrode Reactors. *Water, Air, and Soil Pollution*, **2017**, 228, 1	2.6	21
19	Dynamics of antibiotic resistance genes in microbial fuel cell-coupled constructed wetlands treating antibiotic-polluted water. *Chemosphere*, **2017**, 178, 548-555	8.4	40
18	Novel Scanning Strategy for Future Spaceborne Doppler Weather Radar With Application to Tropical Cyclones. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2017**, 10, 2685-2693	4.7	5
17	Behavior of tetracycline and sulfamethoxazole and their corresponding resistance genes in three-dimensional biofilm-electrode reactors with low current. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2017**, 52, 333-340	2.3	5

16	Degradation of sulfamethoxazole in bioelectrochemical system with power supplied by constructed wetland-coupled microbial fuel cells. *Bioresource Technology*, **2017**, 244, 345-352	11	48
15	Machine learning based side-channel-attack countermeasure with hamming-distance redistribution and its application on advanced encryption standard. *Electronics Letters*, **2017**, 53, 926-928	1.1	19
14	Optimization of Bioelectricity Generation in Constructed Wetland-Coupled Microbial Fuel Cell Systems. *Water (Switzerland)*, **2017**, 9, 185	3	32
13	Effect of electrical stimulation on the fate of sulfamethoxazole and tetracycline with their corresponding resistance genes in three-dimensional biofilm-electrode reactors. *Chemosphere*, **2016**, 164, 113-119	8.4	61
12	Synthesis of wrinkled graphene hybrids for enhanced visible-light photocatalytic activities. *RSC Advances*, **2016**, 6, 45617-45623	3.7	5
11	Fate of tetracycline and sulfamethoxazole and their corresponding resistance genes in microbial fuel cell coupled constructed wetlands. *RSC Advances*, **2016**, 6, 95999-96005	3.7	38
10	Use of Pyrite Cinder as an Iron-Based Oxygen Carrier in Coal-Fueled Chemical Looping Combustion. *Energy & Fuels*, **2015**, 29, 2645-2655	4.1	30
9	Performance of CeO2-Modified Iron-Based Oxygen Carrier in the Chemical Looping Hydrogen Generation Process. *Energy & Fuels*, **2015**, 29, 7612-7621	4.1	51
8	Use of heavy fraction of bio-oil as fuel for hydrogen production in iron-based chemical looping process. *International Journal of Hydrogen Energy*, **2014**, 39, 19955-19969	6.7	46
7	Comparative study between fluidized-bed and fixed-bed operation modes in pressurized chemical looping combustion of coal. *Applied Energy*, **2014**, 130, 181-189	10.7	40
6	Performance of Fe2O3/CaSO4 composite oxygen carrier on inhibition of sulfur release in calcium-based chemical looping combustion. *International Journal of Greenhouse Gas Control*, **2013**, 17, 1-12	4.2	36
5	Pressurized chemical-looping combustion of coal using an iron ore as oxygen carrier in a pilot-scale unit. *International Journal of Greenhouse Gas Control*, **2012**, 10, 363-373	4.2	120
4	Use of Fe2O3-Containing Industrial Wastes As the Oxygen Carrier for Chemical-Looping Combustion of Coal: Effects of Pressure and Cycles. *Energy & Fuels*, **2011**, 25, 4357-4366	4.1	52
3	Pressurized Chemical-Looping Combustion of Chinese Bituminous Coal: Cyclic Performance and Characterization of Iron Ore-Based Oxygen Carrier. *Energy & Fuels*, **2010**, 24, 1449-1463	4.1	69
2	Pressurized chemical-looping combustion of coal with an iron ore-based oxygen carrier. *Combustion and Flame*, **2010**, 157, 1140-1153	5.3	132
1	Non-antibiotic pharmaceuticals can enhance the spread of antibiotic resistance via conjugation		2