

Shuai Zhang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | Pressurized chemical-looping combustion of coal with an iron ore-based oxygen carrier. <i>Combustion and Flame</i> , 2010 , 157, 1140-1153 | 5.3 | 132 |
| 68 | Pressurized chemical-looping combustion of coal using an iron ore as oxygen carrier in a pilot-scale unit. <i>International Journal of Greenhouse Gas Control</i> , 2012 , 10, 363-373 | 4.2 | 120 |
| 67 | Enhanced hydrogen production performance through controllable redox exsolution within CoFeAlOx spinel oxygen carrier materials. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11306-11316 | 13 | 120 |
| 66 | Copper nanoparticles and copper ions promote horizontal transfer of plasmid-mediated multi-antibiotic resistance genes across bacterial genera. <i>Environment International</i> , 2019 , 129, 478-487 | 12.9 | 78 |
| 65 | Pressurized Chemical-Looping Combustion of Chinese Bituminous Coal: Cyclic Performance and Characterization of Iron Ore-Based Oxygen Carrier. <i>Energy & Fuels</i> , 2010 , 24, 1449-1463 | 4.1 | 69 |
| 64 | Effect of electrical stimulation on the fate of sulfamethoxazole and tetracycline with their corresponding resistance genes in three-dimensional biofilm-electrode reactors. <i>Chemosphere</i> , 2016 , 164, 113-119 | 8.4 | 61 |
| 63 | 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. <i>Chemical Engineering Journal</i> , 2018 , 350, 920-929 | 14.7 | 60 |
| 62 | Vertical up-flow constructed wetlands exhibited efficient antibiotic removal but induced antibiotic resistance genes in effluent. <i>Chemosphere</i> , 2018 , 203, 434-441 | 8.4 | 57 |
| 61 | Effects of graphite and Mn ore media on electro-active bacteria enrichment and fate of antibiotic and corresponding resistance genes in up flow microbial fuel cell constructed wetland. <i>Water Research</i> , 2019 , 165, 114988 | 12.5 | 56 |
| 60 | Non-antibiotic pharmaceuticals enhance the transmission of exogenous antibiotic resistance genes through bacterial transformation. <i>ISME Journal</i> , 2020 , 14, 2179-2196 | 11.9 | 53 |
| 59 | Use of Fe ₂ O ₃ -Containing Industrial Wastes As the Oxygen Carrier for Chemical-Looping Combustion of Coal: Effects of Pressure and Cycles. <i>Energy & Fuels</i> , 2011 , 25, 4357-4366 | 4.1 | 52 |
| 58 | Performance of CeO ₂ -Modified Iron-Based Oxygen Carrier in the Chemical Looping Hydrogen Generation Process. <i>Energy & Fuels</i> , 2015 , 29, 7612-7621 | 4.1 | 51 |
| 57 | A system composed of a biofilm electrode reactor and a microbial fuel cell-constructed wetland exhibited efficient sulfamethoxazole removal but induced sul genes. <i>Bioresource Technology</i> , 2018 , 256, 224-231 | 11 | 50 |
| 56 | Degradation of sulfamethoxazole in bioelectrochemical system with power supplied by constructed wetland-coupled microbial fuel cells. <i>Bioresource Technology</i> , 2017 , 244, 345-352 | 11 | 48 |
| 55 | Enhanced degradation of bisphenol A and ibuprofen by an up-flow microbial fuel cell-coupled constructed wetland and analysis of bacterial community structure. <i>Chemosphere</i> , 2019 , 217, 599-608 | 8.4 | 48 |
| 54 | Use of heavy fraction of bio-oil as fuel for hydrogen production in iron-based chemical looping process. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 19955-19969 | 6.7 | 46 |
| 53 | Accumulation of sulfonamide resistance genes and bacterial community function prediction in microbial fuel cell-constructed wetland treating pharmaceutical wastewater. <i>Chemosphere</i> , 2020 , 248, 126014 | 8.4 | 43 |

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| 52 | Azo dye degradation pathway and bacterial community structure in biofilm electrode reactors. <i>Chemosphere</i> , 2018 , 208, 219-225 | 8.4 | 43 |
| 51 | Dynamics of antibiotic resistance genes in microbial fuel cell-coupled constructed wetlands treating antibiotic-polluted water. <i>Chemosphere</i> , 2017 , 178, 548-555 | 8.4 | 40 |
| 50 | Comparative study between fluidized-bed and fixed-bed operation modes in pressurized chemical looping combustion of coal. <i>Applied Energy</i> , 2014 , 130, 181-189 | 10.7 | 40 |
| 49 | Identifying iron-based oxygen carrier reduction during biomass chemical looping gasification on a thermogravimetric fixed-bed reactor. <i>Applied Energy</i> , 2018 , 229, 404-412 | 10.7 | 39 |
| 48 | Fate of tetracycline and sulfamethoxazole and their corresponding resistance genes in microbial fuel cell coupled constructed wetlands. <i>RSC Advances</i> , 2016 , 6, 95999-96005 | 3.7 | 38 |
| 47 | A continuous flow MFC-CW coupled with a biofilm electrode reactor to simultaneously attenuate sulfamethoxazole and its corresponding resistance genes. <i>Science of the Total Environment</i> , 2018 , 637-638, 295-305 | 10.2 | 38 |
| 46 | Performance of Fe ₂ O ₃ /CaSO ₄ composite oxygen carrier on inhibition of sulfur release in calcium-based chemical looping combustion. <i>International Journal of Greenhouse Gas Control</i> , 2013 , 17, 1-12 | 4.2 | 36 |
| 45 | Optimization of Bioelectricity Generation in Constructed Wetland-Coupled Microbial Fuel Cell Systems. <i>Water (Switzerland)</i> , 2017 , 9, 185 | 3 | 32 |
| 44 | Use of Pyrite Cinder as an Iron-Based Oxygen Carrier in Coal-Fueled Chemical Looping Combustion. <i>Energy & Fuels</i> , 2015 , 29, 2645-2655 | 4.1 | 30 |
| 43 | Triclosan at environmental concentrations can enhance the spread of extracellular antibiotic resistance genes through transformation. <i>Science of the Total Environment</i> , 2020 , 713, 136621 | 10.2 | 30 |
| 42 | Azo dye as part of co-substrate in a biofilm electrode reactor-microbial fuel cell coupled system and an analysis of the relevant microorganisms. <i>Chemosphere</i> , 2019 , 216, 742-748 | 8.4 | 29 |
| 41 | Inhibition of methanogens decreased sulfadiazine removal and increased antibiotic resistance gene development in microbial fuel cells. <i>Bioresource Technology</i> , 2019 , 281, 188-194 | 11 | 28 |
| 40 | Effects of voltage on sulfadiazine degradation and the response of sul genes and microbial communities in biofilm-electrode reactors. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 151, 272-278 | 7 | 27 |
| 39 | Chlorine disinfection facilitates natural transformation through ROS-mediated oxidative stress. <i>ISME Journal</i> , 2021 , 15, 2969-2985 | 11.9 | 23 |
| 38 | Coupled Effects of Electrical Stimulation and Antibiotics on Microbial Community in Three-Dimensional Biofilm-Electrode Reactors. <i>Water, Air, and Soil Pollution</i> , 2017 , 228, 1 | 2.6 | 21 |
| 37 | Enhanced hydrogen production performance at intermediate temperatures through the synergistic effects of binary oxygen carriers. <i>Applied Energy</i> , 2019 , 252, 113454 | 10.7 | 21 |
| 36 | A review of bioelectrochemical systems for antibiotic removal: Efficient antibiotic removal and dissemination of antibiotic resistance genes. <i>Journal of Water Process Engineering</i> , 2020 , 37, 101421 | 6.7 | 20 |
| 35 | Role of electrode materials on performance and microbial characteristics in the constructed wetland coupled microbial fuel cell (CW-MFC): A review. <i>Journal of Cleaner Production</i> , 2021 , 301, 126951 | 10.3 | 20 |

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|----|---|------|----|
| 34 | 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. <i>Bioresource Technology</i> , 2020 , 296, 122290 | 11 | 20 |
| 33 | Machine learning based side-channel-attack countermeasure with hamming-distance redistribution and its application on advanced encryption standard. <i>Electronics Letters</i> , 2017 , 53, 926-928 | 1.1 | 19 |
| 32 | Effects of direct current on <i>Klebsiella</i> spp. viability and corresponding resistance gene expression in simulative bio-electrochemical reactors. <i>Chemosphere</i> , 2018 , 196, 251-259 | 8.4 | 18 |
| 31 | Bio-pretreatment promote hydrolysis and acidification of oilseed rape straw: Roles of fermentation broth and micro-oxygen. <i>Bioresource Technology</i> , 2020 , 308, 123272 | 11 | 15 |
| 30 | Tuning the Support Properties toward Higher CO Conversion during a Chemical Looping Scheme. <i>Environmental Science & Technology</i> , 2020 , 54, 12467-12475 | 10.3 | 15 |
| 29 | Non-antibiotic pharmaceuticals promote the transmission of multidrug resistance plasmids through intra- and intergenera conjugation. <i>ISME Journal</i> , 2021 , 15, 2493-2508 | 11.9 | 15 |
| 28 | New insights of the bacterial response to exposure of differently sized silver nanomaterials. <i>Water Research</i> , 2020 , 169, 115205 | 12.5 | 15 |
| 27 | Constructed Wetland Revealed Efficient Sulfamethoxazole Removal but Enhanced the Spread of Antibiotic Resistance Genes. <i>Molecules</i> , 2020 , 25, | 4.8 | 14 |
| 26 | Comparison of pyrite cinder with synthetic and natural iron-based oxygen carriers in coal-fueled chemical-looping combustion 2018 , 8, 106-119 | | 13 |
| 25 | Spinel-Structured Ternary Ferrites as Effective Agents for Chemical Looping CO ₂ Splitting. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 6924-6930 | 3.9 | 11 |
| 24 | Phase segregation mechanism of NiFe ₂ O ₄ oxygen carrier in chemical looping process. <i>International Journal of Energy Research</i> , 2021 , 45, 3305-3314 | 4.5 | 11 |
| 23 | Federated Learning: A Distributed Shared Machine Learning Method. <i>Complexity</i> , 2021 , 2021, 1-20 | 1.6 | 8 |
| 22 | Interactions of heavy metal elements across sediment-water interface in Lake Jiaogang. <i>Environmental Pollution</i> , 2021 , 286, 117578 | 9.3 | 6 |
| 21 | Insights of metallic nanoparticles and ions in accelerating the bacterial uptake of antibiotic resistance genes. <i>Journal of Hazardous Materials</i> , 2022 , 421, 126728 | 12.8 | 6 |
| 20 | Novel Scanning Strategy for Future Spaceborne Doppler Weather Radar With Application to Tropical Cyclones. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017 , 10, 2685-2693 | 4.7 | 5 |
| 19 | Behavior of tetracycline and sulfamethoxazole and their corresponding resistance genes in three-dimensional biofilm-electrode reactors with low current. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2017 , 52, 333-340 | 2.3 | 5 |
| 18 | Simulated wastewater reduced <i>Klebsiella michiganensis</i> strain LH-2 viability and corresponding antibiotic resistance gene abundance in bio-electrochemical reactors. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 162, 376-382 | 7 | 5 |
| 17 | Synthesis of wrinkled graphene hybrids for enhanced visible-light photocatalytic activities. <i>RSC Advances</i> , 2016 , 6, 45617-45623 | 3.7 | 5 |

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| 16 | Effect of calcination condition on the performance of iron ore in chemical-looping combustion. <i>Fuel Processing Technology</i> , 2020 , 203, 106395 | 7.2 | 5 |
| 15 | The synergistic effect in metal-free graphene oxide coupled graphitic carbon nitride/light/peroxymonosulfate system: Photothermal effect and catalyst stability. <i>Carbon</i> , 2021 , 178, 81-91 | 10.4 | 4 |
| 14 | The cooperation of photothermal conversion, photocatalysis and sulfate radical-based advanced oxidation process on few-layered graphite modified graphitic carbon nitride. <i>Chemical Engineering Journal</i> , 2021 , 417, 127993 | 14.7 | 4 |
| 13 | Non-antibiotic pharmaceuticals can enhance the spread of antibiotic resistance via conjugation | | 2 |
| 12 | Control of maximum water age based on total chlorine decay in secondary water supply system. <i>Chemosphere</i> , 2022 , 287, 132198 | 8.4 | 2 |
| 11 | Inactivation of antibiotic resistant bacterium <i>Escherichia coli</i> by electrochemical disinfection on molybdenum carbide electrode. <i>Chemosphere</i> , 2022 , 287, 132398 | 8.4 | 2 |
| 10 | Improved Assimilation of Fengyun-3 Satellite-Based Snow Cover Fraction in Northeastern China. <i>Journal of Meteorological Research</i> , 2019 , 33, 960-975 | 2.3 | 1 |
| 9 | Application of a Molybdenum Carbide Electrode Enhanced the Biodegradability of Wheat Straw. <i>Journal of Electronic Materials</i> , 2022 , 51, 163 | 1.9 | 1 |
| 8 | Effects of voltage on the emergence and spread of antibiotic resistance genes in microbial electrolysis cells: From mutation to horizontal gene transfer. <i>Chemosphere</i> , 2021 , 291, 132703 | 8.4 | 1 |
| 7 | Hybrid Method to Identify Second-trip Echoes Using Phase Modulation and Polarimetric Technology. <i>Advances in Atmospheric Sciences</i> , 2021 , 38, 480-492 | 2.9 | 1 |
| 6 | Increase of antibiotic resistance genes via horizontal transfer in single- and two-chamber microbial electrolysis cells.. <i>Environmental Science and Pollution Research</i> , 2022 , 29, 36216 | 5.1 | 0 |
| 5 | Microplastics can selectively enrich intracellular and extracellular antibiotic resistant genes and shape different microbial communities in aquatic systems.. <i>Science of the Total Environment</i> , 2022 , 153488 | 10.2 | 0 |
| 4 | Variation in the microbial community in bioelectrochemical systems treating sulfamethoxazole wastewater Identifying key operating parameters and revealing sul gene-harboring host bacteria. <i>Journal of Water Process Engineering</i> , 2022 , 46, 102572 | 6.7 | 0 |
| 3 | Mobile Genetic Elements Drive the Antibiotic Resistome Alteration in Freshwater Shrimp Aquaculture. <i>Water (Switzerland)</i> , 2021 , 13, 1461 | 3 | 0 |
| 2 | Simultaneous removal of antibiotic resistant bacteria and antibiotic resistance genes by molybdenum carbide assisted electrochemical disinfection.. <i>Journal of Hazardous Materials</i> , 2022 , 432, 128733 | 12.8 | 0 |
| 1 | Aerobic Denitrification Is Enhanced Using Biocathode of SMFC in Low-Organic Matter Wastewater. <i>Water (Switzerland)</i> , 2021 , 13, 3512 | 3 | 0 |