

# Jian Sun

## List of Publications by Citations

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80  
papers

3,281  
citations

35  
h-index

56  
g-index

82  
ext. papers

3,788  
ext. citations

8.4  
avg, IF

5.45  
L-index

#	Paper	IF	Citations
80	Adsorption of Cu(2+), Cd(2+) and Ni(2+) from aqueous single metal solutions on graphene oxide membranes. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 297, 251-60	12.8	235
79	Simultaneous decolorization of azo dye and bioelectricity generation using a microfiltration membrane air-cathode single-chamber microbial fuel cell. <i>Bioresource Technology</i> , <b>2009</b> , 100, 3185-92	11	214
78	Voltammetry and Growth Physiology of <i>Geobacter sulfurreducens</i> Biofilms as a Function of Growth Stage and Imposed Electrode Potential. <i>Electroanalysis</i> , <b>2010</b> , 22, 865-874	3	206
77	Iron- and nitrogen-functionalized graphene as a non-precious metal catalyst for enhanced oxygen reduction in an air-cathode microbial fuel cell. <i>Journal of Power Sources</i> , <b>2012</b> , 213, 265-269	8.9	154
76	Improved performance of air-cathode single-chamber microbial fuel cell for wastewater treatment using microfiltration membranes and multiple sludge inoculation. <i>Journal of Power Sources</i> , <b>2009</b> , 187, 471-479	8.9	147
75	Manganese dioxide-coated carbon nanotubes as an improved cathodic catalyst for oxygen reduction in a microbial fuel cell. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 9284-9289	8.9	119
74	Bio-cathode materials evaluation in microbial fuel cells: A comparison of graphite felt, carbon paper and stainless steel mesh materials. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 16935-16942	6.7	104
73	Thermodynamics and kinetics parameters of co-combustion between sewage sludge and water hyacinth in CO <sub>2</sub> /O <sub>2</sub> atmosphere as biomass to solid biofuel. <i>Bioresource Technology</i> , <b>2016</b> , 218, 631-42	11	103
72	Explore various co-substrates for simultaneous electricity generation and Congo red degradation in air-cathode single-chamber microbial fuel cell. <i>Bioelectrochemistry</i> , <b>2010</b> , 79, 71-6	5.6	100
71	Redox mediator enhanced simultaneous decolorization of azo dye and bioelectricity generation in air-cathode microbial fuel cell. <i>Bioresource Technology</i> , <b>2013</b> , 142, 407-14	11	89
70	Further treatment of decolorization liquid of azo dye coupled with increased power production using microbial fuel cell equipped with an aerobic biocathode. <i>Water Research</i> , <b>2011</b> , 45, 283-91	12.5	88
69	Investigation of co-combustion characteristics of sewage sludge and coffee grounds mixtures using thermogravimetric analysis coupled to artificial neural networks modeling. <i>Bioresource Technology</i> , <b>2017</b> , 225, 234-245	11	82
68	Upgrading earth-abundant biomass into three-dimensional carbon materials for energy and environmental applications. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 4217-4229	13	71
67	Influence of catalysts on co-combustion of sewage sludge and water hyacinth blends as determined by TG-MS analysis. <i>Bioresource Technology</i> , <b>2018</b> , 247, 217-225	11	68
66	Simultaneous Congo red decolorization and electricity generation in air-cathode single-chamber microbial fuel cell with different microfiltration, ultrafiltration and proton exchange membranes. <i>Bioresource Technology</i> , <b>2011</b> , 102, 4433-8	11	66
65	Antibacterial activity of graphene-modified anode on <i>Shewanella oneidensis</i> MR-1 biofilm in microbial fuel cell. <i>Journal of Power Sources</i> , <b>2015</b> , 290, 80-86	8.9	61
64	Enhanced simultaneous decolorization of azo dye and electricity generation in microbial fuel cell (MFC) with redox mediator modified anode. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 2349-2359	6.7	57

63	Co-combustion of sewage sludge and coffee grounds under increased O <sub>2</sub> /CO atmospheres: Thermodynamic characteristics, kinetics and artificial neural network modeling. <i>Bioresource Technology</i> , <b>2018</b> , 250, 230-238	11	55
62	Soft-template assisted synthesis of Fe/N-doped hollow carbon nanospheres as advanced electrocatalysts for the oxygen reduction reaction in microbial fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 19343-19350	13	54
61	Elimination and ecotoxicity evaluation of phthalic acid esters from textile-dyeing wastewater. <i>Environmental Pollution</i> , <b>2017</b> , 231, 115-122	9.3	53
60	Carbon nanotube-coated stainless steel mesh for enhanced oxygen reduction in biocathode microbial fuel cells. <i>Journal of Power Sources</i> , <b>2013</b> , 239, 169-174	8.9	51
59	Performance improvement of air-cathode single-chamber microbial fuel cell using a mesoporous carbon modified anode. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 7458-7464	8.9	50
58	Degradation of polycyclic aromatic hydrocarbons (PAHs) in textile dyeing sludge with ultrasound and Fenton processes: Effect of system parameters and synergistic effect study. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 307, 7-16	12.8	48
57	Biodegradation of oxytetracycline and electricity generation in microbial fuel cell with in situ dual graphene modified bioelectrode. <i>Bioresource Technology</i> , <b>2018</b> , 270, 482-488	11	45
56	Toxicity evaluation of textile dyeing effluent and its possible relationship with chemical oxygen demand. <i>Ecotoxicology and Environmental Safety</i> , <b>2018</b> , 166, 56-62	7	44
55	Performance and microbial diversity of microbial fuel cells coupled with different cathode types during simultaneous azo dye decolorization and electricity generation. <i>Bioresource Technology</i> , <b>2012</b> , 111, 105-110	11	41
54	Electrochemical characterization of the bioanode during simultaneous azo dye decolorization and bioelectricity generation in an air-cathode single chambered microbial fuel cell. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 6874-6879	6.7	41
53	Effect of enrichment procedures on performance and microbial diversity of microbial fuel cell for Congo red decolorization and electricity generation. <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 90, 1563-72	5.7	40
52	Decolorization and biodegradation of the Congo red by <i>Acinetobacter baumannii</i> YNWH 226 and its polymer production's flocculation and dewatering potential. <i>Bioresource Technology</i> , <b>2015</b> , 194, 233-9	11	38
51	Sludge treatment by integrated ultrasound-Fenton process: Characterization of sludge organic matter and its impact on PAHs removal. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 343, 191-199	12.8	38
50	Synergistic effects of surfactant-assisted ionic liquid pretreatment rice straw. <i>Bioresource Technology</i> , <b>2016</b> , 214, 371-375	11	37
49	Bacterial community shift and improved performance induced by in situ preparing dual graphene modified bioelectrode in microbial fuel cell. <i>Bioresource Technology</i> , <b>2017</b> , 238, 273-280	11	35
48	Bacterial community shift and incurred performance in response to in situ microbial self-assembly graphene and polarity reversion in microbial fuel cell. <i>Bioresource Technology</i> , <b>2017</b> , 241, 220-227	11	35
47	Sequential decolorization of azo dye and mineralization of decolorization liquid coupled with bioelectricity generation using a pH self-neutralized photobioelectrochemical system operated with polarity reversion. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 289, 108-117	12.8	35
46	Understanding the degradation of Congo red and bacterial diversity in an air-cathode microbial fuel cell being evaluated for simultaneous azo dye removal from wastewater and bioelectricity generation. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 3711-9	5.7	35

45	Degradation of aromatic amines in textile-dyeing sludge by combining the ultrasound technique with potassium permanganate treatment. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 314, 1-10	12.8	35
44	Enhanced performance of microbial fuel cell with in situ preparing dual graphene modified bioelectrode. <i>Bioresource Technology</i> , <b>2017</b> , 241, 735-742	11	34
43	Simultaneous antibiotic degradation, nitrogen removal and power generation in a microalgae-bacteria powered biofuel cell designed for aquaculture wastewater treatment and energy recovery. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 10871-10881	6.7	30
42	Removal of polycyclic aromatic hydrocarbons (PAHs) from textile dyeing sludge by ultrasound combined zero-valent iron/EDTA/Air system. <i>Chemosphere</i> , <b>2018</b> , 191, 839-847	8.4	30
41	Regulation of biocathode microbial fuel cell performance with respect to azo dye degradation and electricity generation via the selection of anodic inoculum. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 5141-5150	6.7	26
40	Enhanced dewaterability of textile dyeing sludge using micro-electrolysis pretreatment. <i>Journal of Environmental Management</i> , <b>2015</b> , 161, 181-187	7.9	25
39	Characterization and interactions of anodic isolates in microbial fuel cells explored for simultaneous electricity generation and Congo red decolorization. <i>Bioresource Technology</i> , <b>2013</b> , 142, 101-8	11	24
38	Enhanced oxytetracycline removal coupling with increased power generation using a self-sustained photo-bioelectrochemical fuel cell. <i>Chemosphere</i> , <b>2019</b> , 221, 21-29	8.4	23
37	Cu <sub>2</sub> O loaded titanate nanotube arrays for simultaneously photoelectrochemical ibuprofen oxidation and hydrogen generation. <i>Chemosphere</i> , <b>2016</b> , 150, 605-614	8.4	21
36	Effects of periodically alternating temperatures on performance of single-chamber microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 8048-8054	6.7	20
35	Enlargement of anode for enhanced simultaneous azo dye decolorization and power output in air-cathode microbial fuel cell. <i>Biotechnology Letters</i> , <b>2012</b> , 34, 2023-9	3	20
34	Electrochemical and microbial community responses of electrochemically active biofilms to copper ions in bioelectrochemical systems. <i>Chemosphere</i> , <b>2018</b> , 196, 377-385	8.4	16
33	Bioelectrical power generation coupled with high-strength nitrogen removal using a photo-bioelectrochemical fuel cell under oxytetracycline stress. <i>Electrochimica Acta</i> , <b>2019</b> , 299, 500-508	6.7	16
32	High-concentration nitrogen removal coupling with bioelectric power generation by a self-sustaining algal-bacterial biocathode photo-bioelectrochemical system under daily light/dark cycle. <i>Chemosphere</i> , <b>2019</b> , 222, 797-809	8.4	15
31	Targeted degradation of dimethyl phthalate by activating persulfate using molecularly imprinted Fe-MOF-74. <i>Chemosphere</i> , <b>2021</b> , 270, 128620	8.4	15
30	Spent mushroom substrate biochar as a potential amendment in pig manure and rice straw composting processes. <i>Environmental Technology (United Kingdom)</i> , <b>2017</b> , 38, 1765-1769	2.6	14
29	Effect of K <sub>2</sub> FeO <sub>4</sub> /US treatment on textile dyeing sludge disintegration and dewaterability. <i>Journal of Environmental Management</i> , <b>2015</b> , 162, 81-6	7.9	12
28	Effect of ultrasound on ionic liquid-hydrochloric acid pretreatment with rice straw. <i>Biomass Conversion and Biorefinery</i> , <b>2021</b> , 11, 1749-1757	2.3	12

27	Water stable SiO-coated Fe-MOF-74 for aqueous dimethyl phthalate degradation in PS activated medium. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 411, 125194	12.8	12
26	Degradation of polycyclic aromatic hydrocarbons (PAHs) in textile dyeing sludge by O <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> treatment. <i>RSC Advances</i> , <b>2015</b> , 5, 38021-38029	3.7	11
25	Solar Photothermal Electrodes for Highly Efficient Microbial Energy Harvesting at Low Ambient Temperatures. <i>ChemSusChem</i> , <b>2018</b> , 11, 4071-4076	8.3	11
24	Combined ultrasound with Fenton treatment for the degradation of carcinogenic polycyclic aromatic hydrocarbons in textile dyeing sludge. <i>Environmental Geochemistry and Health</i> , <b>2018</b> , 40, 1867-1876	4.7	10
23	Long-term effect of carbon nanotubes on electrochemical properties and microbial community of electrochemically active biofilms in microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 16240-16247	6.7	10
22	Treatment of a simulated sludge by ultrasonic zero-valent iron/EDTA/Air process: Interferences of inorganic salts in polyaromatic hydrocarbon removal. <i>Waste Management</i> , <b>2019</b> , 85, 548-556	8.6	9
21	Inhibitory effect of cadmium(II) ion on anodic electrochemically active biofilms performance in bioelectrochemical systems. <i>Chemosphere</i> , <b>2018</b> , 211, 202-209	8.4	9
20	Enhanced bioelectricity generation and azo dye treatment in a reversible photo-bioelectrochemical cell by using novel anthraquinone-2,6-disulfonate (AQDS)/MnO-doped polypyrrole film electrodes. <i>Bioresource Technology</i> , <b>2017</b> , 225, 40-47	11	8
19	Unveiling characteristics of a bioelectrochemical system with polarity reversion for simultaneous azo dye treatment and bioelectricity generation. <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 7295-305	5.7	8
18	Extraction of photosynthetic electron from mixed photosynthetic consortium of bacteria and algae towards sustainable bioelectrical energy harvesting. <i>Electrochimica Acta</i> , <b>2020</b> , 336, 135710	6.7	8
17	Biofilm evolution and viability during in situ preparation of a graphene/exoelectrogen composite biofilm electrode for a high-performance microbial fuel cell. <i>RSC Advances</i> , <b>2017</b> , 7, 42172-42179	3.7	8
16	Integrating solar photovoltaic capacitor into algal-bacterial photo-bioelectrochemical system towards all-weather synchronous enhanced antibiotic and nitrogen removal from wastewater. <i>Journal of Cleaner Production</i> , <b>2020</b> , 272, 122661	10.3	7
15	Enhancing the performance of photo-bioelectrochemical fuel cell using graphene oxide/cobalt/polypyrrole composite modified photo-biocathode in the presence of antibiotic. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 1919-1929	6.7	7
14	Arsenic Partitioning Behavior During Sludge Co-combustion: Thermodynamic Equilibrium Simulation. <i>Waste and Biomass Valorization</i> , <b>2019</b> , 10, 2297-2307	3.2	7
13	Treatment of 3,3-dimethoxybenzidine in sludge by advance oxidation process: Degradation products and toxicity evaluation. <i>Journal of Environmental Management</i> , <b>2019</b> , 238, 102-109	7.9	5
12	Fe@C activated peroxydisulfate system for effectively degrading emerging contaminants: Analysis of the formation and activation mechanism of Fe coordinately unsaturated metal sites. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 419, 126535	12.8	5
11	Sono-advanced Fenton-like degradation of aromatic amines in textile dyeing sludge: efficiency and mechanisms. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 7810-7820	5.1	4
10	Enhanced removal of veterinary antibiotic from wastewater by photoelectroactive biofilm of purple anoxygenic phototroph through photosynthetic electron uptake. <i>Science of the Total Environment</i> , <b>2020</b> , 713, 136605	10.2	4

9	Effect of copper ions on glucose fermentation pathways in bioelectrochemical system. <i>Chemosphere</i> , <b>2021</b> , 272, 129627	8.4	4
8	Modulated construction of Fe-based MOF via formic acid modulator for enhanced degradation of sulfamethoxazole: Design, degradation pathways, and mechanism.. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 429, 128299	12.8	2
7	Electrocatalytic oxidation of ciprofloxacin by Co-Ce-Zr/FAIO three-dimensional particle electrode. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 43815-43830	5.1	2
6	Effect of Congo Red on Electrochemical Characteristics of the Bioanode of Microbial Fuel Cell Explored for Simultaneous Azo Dye-containing Wastewater Treatment and Electricity Generation <b>2011</b> ,		1
5	Conversion of rice husk into fermentable sugar and silica using acid-catalyzed ionic liquid pretreatment. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 40715-40723	5.1	1
4	Iron Modified Titanate Nanotube Arrays for Photoelectrochemical Removal of. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	1
3	Enhanced photodegradation of antibiotics based on anoxygenic photosynthetic bacteria and bacterial metabolites: A sustainably green strategy for the removal of high-risk organics from secondary effluent.. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 430, 128350	12.8	0
2	Enhanced production of microalgae-originated photosensitizer by integrating photosynthetic electrons extraction and antibiotic induction towards photocatalytic degradation of antibiotic: A novel complementary treatment process for antibiotic removal from effluent of conventional biological wastewater treatment.. <i>Journal of Environmental Management</i> , <b>2022</b> , 308, 114527	7.9	0
1	Enhanced metronidazole removal by binary-species photoelectrogenic biofilm of microalgae and anoxygenic phototrophic bacteria.. <i>Journal of Environmental Sciences</i> , <b>2022</b> , 115, 25-36	6.4	0