

Jian Sun

List of Publications by Year in Descending Order

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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.

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	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> , 2022 , 430, 128350	12.8	0
79	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> , 2022 , 308, 114527	7.9	0
78	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> , 2022 , 429, 128299	12.8	2
77	Enhanced metronidazole removal by binary-species photoelectrogenic biofilm of microalgae and anoxygenic phototrophic bacteria.. <i>Journal of Environmental Sciences</i> , 2022 , 115, 25-36	6.4	0
76	Effect of ultrasound on ionic liquid-hydrochloric acid pretreatment with rice straw. <i>Biomass Conversion and Biorefinery</i> , 2021 , 11, 1749-1757	2.3	12
75	Electrocatalytic oxidation of ciprofloxacin by Co-Ce-Zr/BAO three-dimensional particle electrode. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 43815-43830	5.1	2
74	Conversion of rice husk into fermentable sugar and silica using acid-catalyzed ionic liquid pretreatment. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 40715-40723	5.1	1
73	Effect of copper ions on glucose fermentation pathways in bioelectrochemical system. <i>Chemosphere</i> , 2021 , 272, 129627	8.4	4
72	Water stable SiO-coated Fe-MOF-74 for aqueous dimethyl phthalate degradation in PS activated medium. <i>Journal of Hazardous Materials</i> , 2021 , 411, 125194	12.8	12
71	Iron Modified Titanate Nanotube Arrays for Photoelectrochemical Removal of. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
70	Targeted degradation of dimethyl phthalate by activating persulfate using molecularly imprinted Fe-MOF-74. <i>Chemosphere</i> , 2021 , 270, 128620	8.4	15
69	Fe@C activated peroxymonosulfate 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> , 2021 , 419, 126535	12.8	5
68	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> , 2020 , 45, 10871-10881	6.7	30
67	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> , 2020 , 713, 136605	10.2	4
66	Extraction of photosynthetic electron from mixed photosynthetic consortium of bacteria and algae towards sustainable bioelectrical energy harvesting. <i>Electrochimica Acta</i> , 2020 , 336, 135710	6.7	8
65	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> , 2020 , 272, 122661	10.3	7
64	Upgrading earth-abundant biomass into three-dimensional carbon materials for energy and environmental applications. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4217-4229	13	71

63	Sono-advanced Fenton-like degradation of aromatic amines in textile dyeing sludge: efficiency and mechanisms. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 7810-7820	5.1	4
62	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> , 2019 , 85, 548-556	8.6	9
61	Treatment of 3,3-dimethoxybenzidine in sludge by advance oxidation process: Degradation products and toxicity evaluation. <i>Journal of Environmental Management</i> , 2019 , 238, 102-109	7.9	5
60	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> , 2019 , 222, 797-809	8.4	15
59	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> , 2019 , 44, 1919-1929	6.7	7
58	Enhanced oxytetracycline removal coupling with increased power generation using a self-sustained photo-bioelectrochemical fuel cell. <i>Chemosphere</i> , 2019 , 221, 21-29	8.4	23
57	Bioelectrical power generation coupled with high-strength nitrogen removal using a photo-bioelectrochemical fuel cell under oxytetracycline stress. <i>Electrochimica Acta</i> , 2019 , 299, 500-508	6.7	16
56	Arsenic Partitioning Behavior During Sludge Co-combustion: Thermodynamic Equilibrium Simulation. <i>Waste and Biomass Valorization</i> , 2019 , 10, 2297-2307	3.2	7
55	Electrochemical and microbial community responses of electrochemically active biofilms to copper ions in bioelectrochemical systems. <i>Chemosphere</i> , 2018 , 196, 377-385	8.4	16
54	Combined ultrasound with Fenton treatment for the degradation of carcinogenic polycyclic aromatic hydrocarbons in textile dyeing sludge. <i>Environmental Geochemistry and Health</i> , 2018 , 40, 1867-1876	4.7	10
53	Removal of polycyclic aromatic hydrocarbons (PAHs) from textile dyeing sludge by ultrasound combined zero-valent iron/EDTA/Air system. <i>Chemosphere</i> , 2018 , 191, 839-847	8.4	30
52	Sludge treatment by integrated ultrasound-Fenton process: Characterization of sludge organic matter and its impact on PAHs removal. <i>Journal of Hazardous Materials</i> , 2018 , 343, 191-199	12.8	38
51	Influence of catalysts on co-combustion of sewage sludge and water hyacinth blends as determined by TG-MS analysis. <i>Bioresource Technology</i> , 2018 , 247, 217-225	11	68
50	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> , 2018 , 43, 16240-16247	6.7	10
49	Inhibitory effect of cadmium(II) ion on anodic electrochemically active biofilms performance in bioelectrochemical systems. <i>Chemosphere</i> , 2018 , 211, 202-209	8.4	9
48	Co-combustion of sewage sludge and coffee grounds under increased O ₂ /CO atmospheres: Thermodynamic characteristics, kinetics and artificial neural network modeling. <i>Bioresource Technology</i> , 2018 , 250, 230-238	11	55
47	Solar Photothermal Electrodes for Highly Efficient Microbial Energy Harvesting at Low Ambient Temperatures. <i>ChemSusChem</i> , 2018 , 11, 4071-4076	8.3	11
46	Biodegradation of oxytetracycline and electricity generation in microbial fuel cell with in situ dual graphene modified bioelectrode. <i>Bioresource Technology</i> , 2018 , 270, 482-488	11	45

45	Toxicity evaluation of textile dyeing effluent and its possible relationship with chemical oxygen demand. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 166, 56-62	7	44
44	Bacterial community shift and improved performance induced by in situ preparing dual graphene modified bioelectrode in microbial fuel cell. <i>Bioresource Technology</i> , 2017 , 238, 273-280	11	35
43	Enhanced performance of microbial fuel cell with in situ preparing dual graphene modified bioelectrode. <i>Bioresource Technology</i> , 2017 , 241, 735-742	11	34
42	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> , 2017 , 241, 220-227	11	35
41	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> , 2017 , 225, 40-47	11	8
40	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> , 2017 , 5, 19343-19350	13	54
39	Elimination and ecotoxicity evaluation of phthalic acid esters from textile-dyeing wastewater. <i>Environmental Pollution</i> , 2017 , 231, 115-122	9.3	53
38	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> , 2017 , 225, 234-245	11	82
37	Spent mushroom substrate biochar as a potential amendment in pig manure and rice straw composting processes. <i>Environmental Technology (United Kingdom)</i> , 2017 , 38, 1765-1769	2.6	14
36	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> , 2017 , 42, 2349-2359	6.7	57
35	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> , 2017 , 7, 42172-42179	3.7	8
34	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> , 2016 , 307, 7-16	12.8	48
33	Cu ₂ O loaded titanate nanotube arrays for simultaneously photoelectrochemical ibuprofen oxidation and hydrogen generation. <i>Chemosphere</i> , 2016 , 150, 605-614	8.4	21
32	Thermodynamics and kinetics parameters of co-combustion between sewage sludge and water hyacinth in CO ₂ /O ₂ atmosphere as biomass to solid biofuel. <i>Bioresource Technology</i> , 2016 , 218, 631-42	11	103
31	Synergistic effects of surfactant-assisted ionic liquid pretreatment rice straw. <i>Bioresource Technology</i> , 2016 , 214, 371-375	11	37
30	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> , 2016 , 41, 5141-5150	6.7	26
29	Degradation of aromatic amines in textile-dyeing sludge by combining the ultrasound technique with potassium permanganate treatment. <i>Journal of Hazardous Materials</i> , 2016 , 314, 1-10	12.8	35
28	Effect of K ₂ FeO ₄ /US treatment on textile dyeing sludge disintegration and dewaterability. <i>Journal of Environmental Management</i> , 2015 , 162, 81-6	7.9	12

27	Enhanced dewaterability of textile dyeing sludge using micro-electrolysis pretreatment. <i>Journal of Environmental Management</i> , 2015 , 161, 181-187	7.9	25
26	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> , 2015 , 194, 233-9	11	38
25	Adsorption of Cu(2+), Cd(2+) and Ni(2+) from aqueous single metal solutions on graphene oxide membranes. <i>Journal of Hazardous Materials</i> , 2015 , 297, 251-60	12.8	235
24	Degradation of polycyclic aromatic hydrocarbons (PAHs) in textile dyeing sludge by O ₃ /H ₂ O ₂ treatment. <i>RSC Advances</i> , 2015 , 5, 38021-38029	3.7	11
23	Unveiling characteristics of a bioelectrochemical system with polarity reversion for simultaneous azo dye treatment and bioelectricity generation. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 7295-305	5.7	8
22	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> , 2015 , 289, 108-117	12.8	35
21	Antibacterial activity of graphene-modified anode on <i>Shewanella oneidensis</i> MR-1 biofilm in microbial fuel cell. <i>Journal of Power Sources</i> , 2015 , 290, 80-86	8.9	61
20	Effects of periodically alternating temperatures on performance of single-chamber microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 8048-8054	6.7	20
19	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> , 2013 , 97, 3711-9	5.7	35
18	Redox mediator enhanced simultaneous decolorization of azo dye and bioelectricity generation in air-cathode microbial fuel cell. <i>Bioresource Technology</i> , 2013 , 142, 407-14	11	89
17	Characterization and interactions of anodic isolates in microbial fuel cells explored for simultaneous electricity generation and Congo red decolorization. <i>Bioresource Technology</i> , 2013 , 142, 101-8	11	24
16	Carbon nanotube-coated stainless steel mesh for enhanced oxygen reduction in biocathode microbial fuel cells. <i>Journal of Power Sources</i> , 2013 , 239, 169-174	8.9	51
15	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> , 2012 , 111, 105-10	11	41
14	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> , 2012 , 213, 265-269	8.9	154
13	Enlargement of anode for enhanced simultaneous azo dye decolorization and power output in air-cathode microbial fuel cell. <i>Biotechnology Letters</i> , 2012 , 34, 2023-9	3	20
12	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> , 2012 , 37, 16935-16942	6.7	104
11	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> , 2011 , 45, 283-91	12.5	88
10	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 2011 ,		1

9	Manganese dioxide-coated carbon nanotubes as an improved cathodic catalyst for oxygen reduction in a microbial fuel cell. <i>Journal of Power Sources</i> , 2011 , 196, 9284-9289	8.9	119
8	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> , 2011 , 90, 1563-72	5.7	40
7	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> , 2011 , 102, 4433-8	11	66
6	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> , 2011 , 56, 6874-6879	6.7	41
5	Performance improvement of air-cathode single-chamber microbial fuel cell using a mesoporous carbon modified anode. <i>Journal of Power Sources</i> , 2011 , 196, 7458-7464	8.9	50
4	Voltammetry and Growth Physiology of <i>Geobacter sulfurreducens</i> Biofilms as a Function of Growth Stage and Imposed Electrode Potential. <i>Electroanalysis</i> , 2010 , 22, 865-874	3	206
3	Explore various co-substrates for simultaneous electricity generation and Congo red degradation in air-cathode single-chamber microbial fuel cell. <i>Bioelectrochemistry</i> , 2010 , 79, 71-6	5.6	100
2	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> , 2009 , 187, 471-479	8.9	147
1	Simultaneous decolorization of azo dye and bioelectricity generation using a microfiltration membrane air-cathode single-chamber microbial fuel cell. <i>Bioresource Technology</i> , 2009 , 100, 3185-92	11	214