

Jian Sun

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9514272/publications.pdf>

Version: 2024-02-01

81
papers

4,387
citations

76196

40
h-index

110170

64
g-index

82
all docs

82
docs citations

82
times ranked

4557
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 251-260.	6.5	295
2	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, 3185-3192.	4.8	244
3	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.	1.5	229
4	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.	4.0	175
5	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.	4.0	164
6	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, 631-642.	4.8	149
7	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.	4.0	138
8	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.	3.8	136
9	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.	4.8	123
10	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, 71-76.	2.4	111
11	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.	5.2	107
12	Redox mediator enhanced simultaneous decolorization of azo dye and bioelectricity generation in air-cathode microbial fuel cell. <i>Bioresource Technology</i> , 2013, 142, 407-414.	4.8	104
13	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, 283-291.	5.3	94
14	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.	4.8	92
15	Elimination and ecotoxicity evaluation of phthalic acid esters from textile-dyeing wastewater. <i>Environmental Pollution</i> , 2017, 231, 115-122.	3.7	83
16	Co-combustion of sewage sludge and coffee grounds under increased O ₂ /CO ₂ atmospheres: Thermodynamic characteristics, kinetics and artificial neural network modeling. <i>Bioresource Technology</i> , 2018, 250, 230-238.	4.8	80
17	Toxicity evaluation of textile dyeing effluent and its possible relationship with chemical oxygen demand. <i>Ecotoxicology and Environmental Safety</i> , 2018, 166, 56-62.	2.9	77
18	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.	4.0	76

#	ARTICLE	IF	CITATIONS
19	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.	3.8	76
20	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, 4433-4438.	4.8	75
21	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.	5.2	75
22	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.	6.5	74
23	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.	4.8	65
24	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.	4.0	62
25	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.	6.5	62
26	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.	4.0	61
27	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.	4.8	53
28	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.	4.8	50
29	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.	6.5	49
30	Synergistic effects of surfactant-assisted ionic liquid pretreatment rice straw. <i>Bioresource Technology</i> , 2016, 214, 371-375.	4.8	49
31	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.	6.5	49
32	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, 233-239.	4.8	48
33	Water stable SiO ₂ -coated Fe-MOF-74 for aqueous dimethyl phthalate degradation in PS activated medium. <i>Journal of Hazardous Materials</i> , 2021, 411, 125194.	6.5	46
34	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, 105-110.	4.8	45
35	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.	3.8	45
36	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.	6.5	44

#	ARTICLE	IF	CITATIONS
37	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.	2.6	43
38	Enhanced performance of microbial fuel cell with in situ preparing dual graphene modified bioelectrode. <i>Bioresource Technology</i> , 2017, 241, 735-742.	4.8	43
39	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, 1563-1572.	1.7	42
40	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, 3711-3719.	1.7	41
41	Targeted degradation of dimethyl phthalate by activating persulfate using molecularly imprinted Fe-MOF-74. <i>Chemosphere</i> , 2021, 270, 128620.	4.2	37
42	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.	4.2	36
43	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> , 2021, 419, 126535.	6.5	33
44	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.	3.8	32
45	Electrochemical and microbial community responses of electrochemically active biofilms to copper ions in bioelectrochemical systems. <i>Chemosphere</i> , 2018, 196, 377-385.	4.2	31
46	Enhanced oxytetracycline removal coupling with increased power generation using a self-sustained photo-bioelectrochemical fuel cell. <i>Chemosphere</i> , 2019, 221, 21-29.	4.2	31
47	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, 101-108.	4.8	30
48	Cu ₂ O loaded titanate nanotube arrays for simultaneously photoelectrochemical ibuprofen oxidation and hydrogen generation. <i>Chemosphere</i> , 2016, 150, 605-614.	4.2	30
49	Enlargement of anode for enhanced simultaneous azo dye decolorization and power output in air-cathode microbial fuel cell. <i>Biotechnology Letters</i> , 2012, 34, 2023-2029.	1.1	29
50	Enhanced dewaterability of textile dyeing sludge using micro-electrolysis pretreatment. <i>Journal of Environmental Management</i> , 2015, 161, 181-187.	3.8	27
51	Effects of periodically alternating temperatures on performance of single-chamber microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 8048-8054.	3.8	26
52	Effect of ultrasound on ionic liquid-hydrochloric acid pretreatment with rice straw. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 1749-1757.	2.9	26
53	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.	4.2	24
54	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.	2.6	22

#	ARTICLE	IF	CITATIONS
55	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.	1.2	21
56	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.	3.8	19
57	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.	6.5	19
58	Inhibitory effect of cadmium(II) ion on anodic electrochemically active biofilms performance in bioelectrochemical systems. <i>Chemosphere</i> , 2018, 211, 202-209.	4.2	18
59	Solar Photothermal Electrodes for Highly Efficient Microbial Energy Harvesting at Low Ambient Temperatures. <i>ChemSusChem</i> , 2018, 11, 4071-4076.	3.6	17
60	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.	1.7	16
61	Effect of K ₂ FeO ₄ /US treatment on textile dyeing sludge disintegration and dewaterability. <i>Journal of Environmental Management</i> , 2015, 162, 81-86.	3.8	14
62	Extraction of photosynthetic electron from mixed photosynthetic consortium of bacteria and algae towards sustainable bioelectrical energy harvesting. <i>Electrochimica Acta</i> , 2020, 336, 135710.	2.6	14
63	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.	3.8	14
64	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.	1.8	13
65	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.	1.7	12
66	Enhanced bioelectricity generation and azo dye treatment in a reversible photo-bioelectrochemical cell by using novel anthraquinone-2,6-disulfonate (AQDS)/MnO _x -doped polypyrrole film electrodes. <i>Bioresource Technology</i> , 2017, 225, 40-47.	4.8	12
67	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.	3.7	12
68	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.	4.6	12
69	Effect of copper ions on glucose fermentation pathways in bioelectrochemical system. <i>Chemosphere</i> , 2021, 272, 129627.	4.2	12
70	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.	3.9	11
71	Electrocatalytic oxidation of ciprofloxacin by Co-Ce-Zr/ ³ -Al ₂ O ₃ three-dimensional particle electrode. <i>Environmental Science and Pollution Research</i> , 2021, 28, 43815-43830.	2.7	10
72	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.	3.8	9

#	ARTICLE	IF	CITATIONS
73	Arsenic Partitioning Behavior During Sludge Co-combustion: Thermodynamic Equilibrium Simulation. Waste and Biomass Valorization, 2019, 10, 2297-2307.	1.8	9
74	Unveiling characteristics of a bioelectrochemical system with polarity reversion for simultaneous azo dye treatment and bioelectricity generation. Applied Microbiology and Biotechnology, 2015, 99, 7295-7305.	1.7	8
75	Treatment of 3,3-dimethoxybenzidine in sludge by advance oxidation process: Degradation products and toxicity evaluation. Journal of Environmental Management, 2019, 238, 102-109.	3.8	7
76	Enhanced metronidazole removal by binary-species photoelectrogenic biofilm of microalgae and anoxygenic phototrophic bacteria. Journal of Environmental Sciences, 2022, 115, 25-36.	3.2	6
77	Sono-advanced Fenton-like degradation of aromatic amines in textile dyeing sludge: efficiency and mechanisms. Environmental Science and Pollution Research, 2019, 26, 7810-7820.	2.7	5
78	Conversion of rice husk into fermentable sugar and silica using acid-catalyzed ionic liquid pretreatment. Environmental Science and Pollution Research, 2021, 28, 40715-40723.	2.7	5
79	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, , .		2
80	Iron Modified Titanate Nanotube Arrays for Photoelectrochemical Removal of E. coli. Nanomaterials, 2021, 11, 1944.	1.9	2
81	Enhanced Power Density and Decolorization of Air-cathode Single-chamber Microbial Fuel Cells with Microfiltration Membranes. , 2011, , .		0