

Yifeng Zhang

List of Publications by Year in descending order

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121
papers

5,943
citations

71061

41
h-index

82499

72
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121
all docs

121
docs citations

121
times ranked

4743
citing authors

#	ARTICLE	IF	CITATIONS
1	When microbial electrochemistry meets UV: The applicability to high-strength real pharmaceutical industry wastewater. <i>Journal of Hazardous Materials</i> , 2022, 423, 127151.	6.5	9
2	Green electricity-driven simultaneous ammonia recovery and in-situ upcycling for microbial protein production. <i>Chemical Engineering Journal</i> , 2022, 430, 132890.	6.6	16
3	Self-sustained ammonium recovery from wastewater and upcycling for hydrogen-oxidizing bacteria-based power-to-protein conversion. <i>Bioresource Technology</i> , 2022, 344, 126271.	4.8	11
4	Microbial electrochemical approaches of carbon dioxide utilization for biogas upgrading. <i>Chemosphere</i> , 2022, 291, 132843.	4.2	18
5	Activation of persulfate for highly efficient degradation of metronidazole using Fe(II)-rich potassium doped magnetic biochar. <i>Science of the Total Environment</i> , 2022, 819, 152089.	3.9	31
6	Natural solar intermittent-powered electromethanogenesis towards green carbon reduction. <i>Chemical Engineering Journal</i> , 2022, 432, 134369.	6.6	19
7	Electrochemical and microbiological response of exoelectrogenic biofilm to polyethylene microplastics in water. <i>Water Research</i> , 2022, 211, 118046.	5.3	44
8	From renewable energy to sustainable protein sources: Advancement, challenges, and future roadmaps. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 157, 112041.	8.2	24
9	Simple modulation of Fe-based single atoms/clusters catalyst with acidic microenvironment for ultrafast Fenton-like reaction. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 121009.	10.8	28
10	The ins and outs of pharmaceutical wastewater treatment by microbial electrochemical technologies. <i>Water Research</i> , 2022, 1, 100003.		22
11	Enhanced Cr(VI) reduction in biocathode microbial electrolysis cell using Fenton-derived ferric sludge. <i>Water Research</i> , 2022, 212, 118144.	5.3	16
12	Extracellular electron transfer in electroactive anaerobic granular sludge mediated by the phenothiazine derivative. <i>Journal of Power Sources</i> , 2022, 527, 231212.	4.0	5
13	Microbial electrolysis enhanced bioconversion of coal to methane compared with anaerobic digestion: Insights into differences in metabolic pathways. <i>Energy Conversion and Management</i> , 2022, 259, 115553.	4.4	29
14	The ins and outs of photo-assisted microbial electrochemical systems for synchronous wastewater treatment and bioenergy recovery. <i>Resources, Conservation and Recycling</i> , 2022, 181, 106230.	5.3	18
15	Technological progress and readiness level of microbial electrosynthesis and electrofermentation for carbon dioxide and organic wastes valorization. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2022, 35, 100605.	3.2	12
16	Elimination of recalcitrant micropollutants by medium pressure UV-catalyzed bioelectrochemical advanced oxidation process: Influencing factors, transformation pathway and toxicity assessment. <i>Science of the Total Environment</i> , 2022, 828, 154543.	3.9	6
17	Nitrogen and phosphorous recycling from human urine by household electrochemical fixed bed in sparsely populated regions. <i>Water Research</i> , 2022, 218, 118467.	5.3	9
18	The interactions between microalgae and wastewater indigenous bacteria for treatment and valorization of brewery wastewater. <i>Resources, Conservation and Recycling</i> , 2022, 182, 106341.	5.3	14

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19	Novel fabricated low-cost hybrid polyacrylonitrile/polyvinylpyrrolidone coated polyurethane foam (PAN/PVP@PUF) membrane for the decolorization of cationic and anionic dyes. <i>Journal of Environmental Management</i> , 2022, 315, 115128.	3.8	19
20	An overview of nanomaterial-based novel disinfection technologies for harmful microorganisms: Mechanism, synthesis, devices and application. <i>Science of the Total Environment</i> , 2022, 837, 155720.	3.9	24
21	Electrifying anaerobic granular sludge for enhanced waste anaerobic digestion and biogas production. <i>Separation and Purification Technology</i> , 2022, 295, 121300.	3.9	4
22	Pyrogenic carbon facilitated microbial extracellular electron transfer in electrogenic granular sludge via geobattery mechanism. <i>Water Research</i> , 2022, 220, 118618.	5.3	22
23	Efficient recovery of dissolved Fe(II) from near neutral pH Fenton via microbial electrolysis. <i>Journal of Hazardous Materials</i> , 2022, 436, 129196.	6.5	9
24	Insights into the impact of polyethylene microplastics on methane recovery from wastewater via bioelectrochemical anaerobic digestion. <i>Water Research</i> , 2022, 221, 118844.	5.3	23
25	Electroactive biofilm-based sensor for volatile fatty acids monitoring: A review. <i>Chemical Engineering Journal</i> , 2022, 449, 137833.	6.6	6
26	Microbial conversion of syngas to single cell protein: The role of carbon monoxide. <i>Chemical Engineering Journal</i> , 2022, 450, 138041.	6.6	7
27	Catalytic activity of LaCu _{0.5} Mn _{0.5} O ₃ perovskite at circumneutral/basic pH conditions in electro-Fenton processes. <i>Catalysis Today</i> , 2021, 361, 159-164.	2.2	15
28	In situ Biogas Upgrading by CO ₂ -to-CH ₄ Bioconversion. <i>Trends in Biotechnology</i> , 2021, 39, 336-347.	4.9	116
29	Optimization of a newly developed electromethanogenesis for the highest record of methane production. <i>Journal of Hazardous Materials</i> , 2021, 407, 124363.	6.5	24
30	Scaling-up of microbial electrosynthesis with multiple electrodes for in situ production of hydrogen peroxide. <i>IScience</i> , 2021, 24, 102094.	1.9	24
31	Optimization of the Cell Immobilization-Based Chain-Elongation Process for Efficient <i>n</i> -Caproate Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4014-4023.	3.2	17
32	Microbial protein production from CO ₂ , H ₂ , and recycled nitrogen: Focusing on ammonia toxicity and nitrogen sources. <i>Journal of Cleaner Production</i> , 2021, 291, 125921.	4.6	30
33	Bioelectrochemically assisted sustainable conversion of industrial organic wastewater and clean production of microalgal protein. <i>Resources, Conservation and Recycling</i> , 2021, 168, 105441.	5.3	19
34	Beyond the farm: Making edible protein from CO ₂ via hybrid bioinorganic electrosynthesis. <i>One Earth</i> , 2021, 4, 868-878.	3.6	10
35	Degradation of metoprolol from wastewater in a bio-electro-Fenton system. <i>Science of the Total Environment</i> , 2021, 771, 145385.	3.9	25
36	Innovative air-cathode bioelectrochemical sensor for monitoring of total volatile fatty acids during anaerobic digestion. <i>Chemosphere</i> , 2021, 273, 129660.	4.2	12

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37	Novel method to immobilize phosphate in lakes using sediment microbial fuel cells. <i>Water Research</i> , 2021, 198, 117108.	5.3	14
38	Activated sludge diffusion for efficient simultaneous treatment of municipal wastewater and odor in a membrane bioreactor. <i>Chemical Engineering Journal</i> , 2021, 415, 128765.	6.6	7
39	A novel persulfate-photo-bioelectrochemical hybrid system promoting the degradation of refractory micropollutants at neutral pH. <i>Journal of Hazardous Materials</i> , 2021, 416, 125905.	6.5	8
40	Deeper investigation on methane generation from synthetic wastewater containing oxytetracycline in a scale up acidic anaerobic baffled reactor. <i>Bioresource Technology</i> , 2021, 333, 125156.	4.8	15
41	Photochemical Behavior of Microbial Extracellular Polymeric Substances in the Aquatic Environment. <i>Environmental Science & Technology</i> , 2021, 55, 15090-15099.	4.6	44
42	Synergistic effect for efficient oxidization of refractory organics with high chroma by an innovative persulfate assisted microbial electrolysis ultraviolet cell. <i>Chemical Engineering Journal</i> , 2021, 419, 129477.	6.6	5
43	Bio-electrochemically extracted nitrogen from residual resources for microbial protein production. <i>Bioresource Technology</i> , 2021, 337, 125353.	4.8	14
44	Cost-efficient microbial electrosynthesis of hydrogen peroxide on a facile-prepared floating electrode by entrapping oxygen. <i>Bioresource Technology</i> , 2021, 342, 125995.	4.8	9
45	Biogas upgrading and valorization to single-cell protein in a bioinorganic electrosynthesis system. <i>Chemical Engineering Journal</i> , 2021, 426, 131837.	6.6	10
46	Coordinated response of Au-NPs/rGO modified electroactive biofilms under phenolic compounds shock: Comprehensive analysis from architecture, composition, and activity. <i>Water Research</i> , 2021, 189, 116589.	5.3	31
47	Effects of nanoplastics on microalgae and their trophic transfer along the food chain: recent advances and perspectives. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 1873-1883.	1.7	13
48	Mechanism and performance of singlet oxygen dominated peroxymonosulfate activation on CoOOH nanoparticles for 2,4-dichlorophenol degradation in water. <i>Journal of Hazardous Materials</i> , 2020, 384, 121350.	6.5	167
49	Microbial community response to ammonia levels in hydrogen assisted biogas production and upgrading process. <i>Bioresource Technology</i> , 2020, 296, 122276.	4.8	28
50	Feasibility and applicability of the scaling-up of bio-electro-Fenton system for textile wastewater treatment. <i>Environment International</i> , 2020, 134, 105352.	4.8	42
51	Regeneration of Fe(II) from Fenton-derived ferric sludge using a novel biocathode. <i>Bioresource Technology</i> , 2020, 318, 124195.	4.8	29
52	Valorization of food waste for cost-effective reducing sugar recovery in a two-stage enzymatic hydrolysis platform. <i>Energy</i> , 2020, 208, 118379.	4.5	28
53	Intermittent electro field regulated mutualistic interspecies electron transfer away from the electrodes for bioenergy recovery from wastewater. <i>Water Research</i> , 2020, 185, 116238.	5.3	52
54	An innovative microbial electrochemical ultraviolet photolysis cell (MEUC) for efficient degradation of carbamazepine. <i>Water Research</i> , 2020, 187, 116451.	5.3	29

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55	Biogas upgrading and energy storage via electromethanogenesis using intact anaerobic granular sludge as biocathode. <i>Applied Energy</i> , 2020, 269, 115101.	5.1	45
56	Simultaneous heavy metal immobilization and antibiotics removal during synergetic treatment of sewage sludge and pig manure. <i>Environmental Science and Pollution Research</i> , 2020, 27, 30323-30332.	2.7	18
57	Electrochemical capacitive performance of intact anaerobic granular sludge-based 3D bioanode. <i>Journal of Power Sources</i> , 2020, 470, 228399.	4.0	18
58	Bioenergy recovery from wastewater accelerated by solar power: Intermittent electro-driving regulation and capacitive storage in biomass. <i>Water Research</i> , 2020, 175, 115696.	5.3	104
59	Sulfide restrains the growth of <i>Methylocapsa acidiphila</i> converting renewable biogas to single cell protein. <i>Water Research</i> , 2020, 184, 116138.	5.3	30
60	Triclosan Removal in Microbial Fuel Cell: The Contribution of Adsorption and Bioelectricity Generation. <i>Energies</i> , 2020, 13, 761.	1.6	13
61	Coupling electrochemical ammonia extraction and cultivation of methane oxidizing bacteria for production of microbial protein. <i>Journal of Environmental Management</i> , 2020, 265, 110560.	3.8	21
62	Degradation of pharmaceuticals from wastewater in a 20-L continuous flow bio-electro-Fenton (BEF) system. <i>Science of the Total Environment</i> , 2020, 727, 138684.	3.9	49
63	Magnetic Cathode Stimulates Extracellular Electron Transfer in Bioelectrochemical Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15012-15018.	3.2	12
64	Biogas Upgrading: Current and Emerging Technologies. , 2019, , 817-843.		24
65	Urban biowaste valorization by coupling anaerobic digestion and single cell protein production. <i>Bioresource Technology</i> , 2019, 290, 121743.	4.8	65
66	Exoelectrogenic Anaerobic Granular Sludge for Simultaneous Electricity Generation and Wastewater Treatment. <i>Environmental Science & Technology</i> , 2019, 53, 12130-12140.	4.6	40
67	Two-electron oxygen reduction on fullerene C60-carbon nanotubes covalent hybrid as a metal-free electrocatalyst. <i>Scientific Reports</i> , 2019, 9, 13780.	1.6	41
68	Microbial community evolution and fate of antibiotic resistance genes during sludge treatment in two full-scale anaerobic digestion plants with thermal hydrolysis pretreatment. <i>Bioresource Technology</i> , 2019, 288, 121575.	4.8	44
69	Biogas upgrading and biochemical production from gas fermentation: Impact of microbial community and gas composition. <i>Bioresource Technology</i> , 2019, 286, 121413.	4.8	38
70	Immobilization of <i>Clostridium kluyveri</i> on wheat straw to alleviate ammonia inhibition during chain elongation for n-caproate production. <i>Environment International</i> , 2019, 127, 134-141.	4.8	21
71	Improved methane production and energy recovery of post-hydrothermal liquefaction waste water via integration of zeolite adsorption and anaerobic digestion. <i>Science of the Total Environment</i> , 2019, 651, 61-69.	3.9	47
72	Innovative operation of microbial fuel cell-based biosensor for selective monitoring of acetate during anaerobic digestion. <i>Science of the Total Environment</i> , 2019, 655, 1439-1447.	3.9	41

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73	Effect of organic loading rate on anaerobic digestion of pig manure: Methane production, mass flow, reactor scale and heating scenarios. <i>Journal of Environmental Management</i> , 2019, 231, 646-652.	3.8	71
74	Microbial community evolution and fate of antibiotic resistance genes along six different full-scale municipal wastewater treatment processes. <i>Bioresource Technology</i> , 2019, 272, 489-500.	4.8	117
75	Microbial electrolytic disinfection process for highly efficient <i>Escherichia coli</i> inactivation. <i>Chemical Engineering Journal</i> , 2018, 342, 220-227.	6.6	33
76	Integrated electrochemical-biological process as an alternative mean for ammonia monitoring during anaerobic digestion of organic wastes. <i>Chemosphere</i> , 2018, 195, 735-741.	4.2	25
77	Bio-electro-Fenton process for the degradation of Non-Steroidal Anti-Inflammatory Drugs in wastewater. <i>Chemical Engineering Journal</i> , 2018, 338, 401-410.	6.6	96
78	Microbial fuel cell-based biosensor for toxic carbon monoxide monitoring. <i>Talanta</i> , 2018, 186, 368-371.	2.9	32
79	Microbial electrochemical separation of CO ₂ for biogas upgrading. <i>Bioresource Technology</i> , 2018, 247, 380-386.	4.8	43
80	Energy-harvesting bio-electro-dehalogenation for sustainable wastewater treatment. <i>Electrochimica Acta</i> , 2018, 290, 38-45.	2.6	6
81	Simultaneous biogas upgrading and biochemicals production using anaerobic bacterial mixed cultures. <i>Water Research</i> , 2018, 142, 86-95.	5.3	58
82	Electricity generation and microbial communities in microbial fuel cell powered by macroalgal biomass. <i>Bioelectrochemistry</i> , 2018, 123, 145-149.	2.4	65
83	Bio-electro-Fenton processes for wastewater treatment: Advances and prospects. <i>Chemical Engineering Journal</i> , 2018, 354, 492-506.	6.6	133
84	BioEnergy and BioChemicals Production from Biomass and Residual Resources. <i>Energies</i> , 2018, 11, 2125.	1.6	5
85	Current as an indicator of ammonia concentration during wastewater treatment in an integrated microbial electrolysis cell - Nitrification system. <i>Electrochimica Acta</i> , 2018, 281, 266-273.	2.6	13
86	Salinity-gradient energy driven microbial electrosynthesis of value-added chemicals from CO ₂ reduction. <i>Water Research</i> , 2018, 142, 396-404.	5.3	40
87	The Potential of Bioelectrochemical Sensor for Monitoring of Acetate During Anaerobic Digestion: Focusing on Novel Reactor Design. <i>Frontiers in Microbiology</i> , 2018, 9, 3357.	1.5	24
88	Efficient treatment of aniline containing wastewater in bipolar membrane microbial electrolysis cell-Fenton system. <i>Water Research</i> , 2017, 119, 67-72.	5.3	94
89	Electricity generation and microbial community in response to short-term changes in stack connection of self-stacked submersible microbial fuel cell powered by glycerol. <i>Water Research</i> , 2017, 109, 367-374.	5.3	35
90	Biological caproate production by <i>Clostridium kluyveri</i> from ethanol and acetate as carbon sources. <i>Bioresource Technology</i> , 2017, 241, 638-644.	4.8	100

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91	The impact of anode acclimation strategy on microbial electrolysis cell treating hydrogen fermentation effluent. <i>Bioresource Technology</i> , 2017, 236, 37-43.	4.8	32
92	Bio-electrolytic sensor for rapid monitoring of volatile fatty acids in anaerobic digestion process. <i>Water Research</i> , 2017, 111, 74-80.	5.3	85
93	Salinity-gradient energy driven microbial electrosynthesis of hydrogen peroxide. <i>Journal of Power Sources</i> , 2017, 341, 357-365.	4.0	40
94	Novel bio-electro-Fenton technology for azo dye wastewater treatment using microbial reverse-electrodialysis electrolysis cell. <i>Bioresource Technology</i> , 2017, 228, 322-329.	4.8	151
95	Microbial Electrolytic Capture, Separation and Regeneration of CO ₂ for Biogas Upgrading. <i>Environmental Science & Technology</i> , 2017, 51, 9371-9378.	4.6	37
96	High efficient ethanol and VFA production from gas fermentation: Effect of acetate, gas and inoculum microbial composition. <i>Biomass and Bioenergy</i> , 2017, 105, 32-40.	2.9	17
97	An Overview of Electron Acceptors in Microbial Fuel Cells. <i>Frontiers in Microbiology</i> , 2017, 8, 643.	1.5	224
98	Microbial Electrochemical Monitoring of Volatile Fatty Acids during Anaerobic Digestion. <i>Environmental Science & Technology</i> , 2016, 50, 4422-4429.	4.6	80
99	Microbial Electrochemical Systems and Technologies: It Is Time To Report the Capital Costs. <i>Environmental Science & Technology</i> , 2016, 50, 5432-5433.	4.6	51
100	Ammonia inhibition on hydrogen enriched anaerobic digestion of manure under mesophilic and thermophilic conditions. <i>Water Research</i> , 2016, 105, 314-319.	5.3	92
101	Counteracting ammonia inhibition during anaerobic digestion by recovery using submersible microbial desalination cell. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1478-1482.	1.7	79
102	Bioelectrochemical recovery of waste-derived volatile fatty acids and production of hydrogen and alkali. <i>Water Research</i> , 2015, 81, 188-195.	5.3	64
103	Alternate switching between microbial fuel cell and microbial electrolysis cell operation as a new method to control H ₂ O ₂ level in Bioelectro-Fenton system. <i>Journal of Power Sources</i> , 2015, 291, 108-116.	4.0	85
104	Recovery of ammonia and sulfate from waste streams and bioenergy production via bipolar bioelectrodialysis. <i>Water Research</i> , 2015, 85, 177-184.	5.3	90
105	Submersible microbial desalination cell for simultaneous ammonia recovery and electricity production from anaerobic reactors containing high levels of ammonia. <i>Bioresource Technology</i> , 2015, 177, 233-239.	4.8	96
106	Nanomodification of the electrodes in microbial fuel cell: Impact of nanoparticle density on electricity production and microbial community. <i>Applied Energy</i> , 2014, 116, 216-222.	5.1	120
107	Microbial electrolysis cells turning to be versatile technology: Recent advances and future challenges. <i>Water Research</i> , 2014, 56, 11-25.	5.3	334
108	A new method for in situ nitrate removal from groundwater using submerged microbial desalination&denitrification cell (SMDDC). <i>Water Research</i> , 2013, 47, 1827-1836.	5.3	135

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109	Bioelectrode-based approach for enhancing nitrate and nitrite removal and electricity generation from eutrophic lakes. <i>Water Research</i> , 2012, 46, 6445-6453.	5.3	68
110	Innovative self-powered submersible microbial electrolysis cell (SMEC) for biohydrogen production from anaerobic reactors. <i>Water Research</i> , 2012, 46, 2727-2736.	5.3	38
111	Surface area expansion of electrodes with grass-like nanostructures and gold nanoparticles to enhance electricity generation in microbial fuel cells. <i>Bioresource Technology</i> , 2012, 123, 177-183.	4.8	34
112	A simple and rapid method for monitoring dissolved oxygen in water with a submersible microbial fuel cell (SBMFC). <i>Biosensors and Bioelectronics</i> , 2012, 38, 189-194.	5.3	89
113	Self-stacked submersible microbial fuel cell (SSMFC) for improved remote power generation from lake sediments. <i>Biosensors and Bioelectronics</i> , 2012, 35, 265-270.	5.3	63
114	Submersible microbial fuel cell for electricity production from sewage sludge. <i>Water Science and Technology</i> , 2011, 64, 50-55.	1.2	33
115	Simultaneous organic carbon, nutrients removal and energy production in a photomicrobial fuel cell (PFC). <i>Energy and Environmental Science</i> , 2011, 4, 4340.	15.6	134
116	Submersible microbial fuel cell sensor for monitoring microbial activity and BOD in groundwater: Focusing on impact of anodic biofilm on sensor applicability. <i>Biotechnology and Bioengineering</i> , 2011, 108, 2339-2347.	1.7	106
117	Electricity generation and microbial community response to substrate changes in microbial fuel cell. <i>Bioresource Technology</i> , 2011, 102, 1166-1173.	4.8	159
118	Generation of Electricity and Analysis of Microbial Communities in Wheat Straw Biomass-Powered Microbial Fuel Cells. <i>Applied and Environmental Microbiology</i> , 2009, 75, 3389-3395.	1.4	174
119	Enhanced bio-decolorization of azo dyes by co-immobilized quinone-reducing consortium and anthraquinone. <i>Bioresource Technology</i> , 2009, 100, 2982-2987.	4.8	42
120	Cathodic reduction of hexavalent chromium [Cr(VI)] coupled with electricity generation in microbial fuel cells. <i>Biotechnology Letters</i> , 2008, 30, 1959-1966.	1.1	248
121	Electricity generation in microbial fuel cells: Using humic acids as a mediator. <i>Journal of Biotechnology</i> , 2008, 136, S474-S475.	1.9	0