

Nan Li

List of Publications by Year in descending order

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108
papers

4,885
citations

70961

41
h-index

106150

65
g-index

108
all docs

108
docs citations

108
times ranked

4031
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerated start-up of two-chambered microbial fuel cells: Effect of anodic positive poised potential. <i>Electrochimica Acta</i> , 2009, 54, 1109-1114.	2.6	219
2	Sequestration of CO ₂ discharged from anode by algal cathode in microbial carbon capture cells (MCCs). <i>Biosensors and Bioelectronics</i> , 2010, 25, 2639-2643.	5.3	214
3	Granulation and ferric oxides loading enable biochar derived from cotton stalk to remove phosphate from water. <i>Bioresource Technology</i> , 2015, 178, 119-125.	4.8	154
4	Bioaugmentation for Electricity Generation from Corn Stover Biomass Using Microbial Fuel Cells. <i>Environmental Science & Technology</i> , 2009, 43, 6088-6093.	4.6	149
5	Conductive materials in anaerobic digestion: From mechanism to application. <i>Bioresource Technology</i> , 2020, 298, 122403.	4.8	122
6	Performance evaluation of powdered activated carbon for removing 28 types of antibiotics from water. <i>Journal of Environmental Management</i> , 2016, 172, 193-200.	3.8	118
7	Highly efficient electro-generation of H ₂ O ₂ by adjusting liquid-gas-solid three phase interfaces of porous carbonaceous cathode during oxygen reduction reaction. <i>Water Research</i> , 2019, 164, 114933.	5.3	113
8	High-Capacity Amidoxime-Functionalized β -Cyclodextrin/Graphene Aerogel for Selective Uranium Capture. <i>Environmental Science & Technology</i> , 2021, 55, 9181-9188.	4.6	112
9	Three-dimensional electrode microbial fuel cell for hydrogen peroxide synthesis coupled to wastewater treatment. <i>Journal of Power Sources</i> , 2014, 254, 316-322.	4.0	108
10	Degradation of microcystin-RR by UV radiation in the presence of hydrogen peroxide. <i>Toxicon</i> , 2005, 45, 745-752.	0.8	107
11	Electric field induced salt precipitation into activated carbon air-cathode causes power decay in microbial fuel cells. <i>Water Research</i> , 2017, 123, 369-377.	5.3	106
12	A novel carbon black graphite hybrid air-cathode for efficient hydrogen peroxide production in bioelectrochemical systems. <i>Journal of Power Sources</i> , 2016, 306, 495-502.	4.0	102
13	Recovery of phosphate from aqueous solutions via vivianite crystallization: Thermodynamics and influence of pH. <i>Chemical Engineering Journal</i> , 2018, 349, 37-46.	6.6	100
14	Sand amendment enhances bioelectrochemical remediation of petroleum hydrocarbon contaminated soil. <i>Chemosphere</i> , 2015, 141, 62-70.	4.2	99
15	Enhanced electricity generation and extracellular electron transfer by polydopamine@reduced graphene oxide (PDA@rGO) modification for high-performance anode in microbial fuel cell. <i>Chemical Engineering Journal</i> , 2020, 387, 123408.	6.6	97
16	Occurrence, seasonal variation and risk assessment of antibiotics in the reservoirs in North China. <i>Chemosphere</i> , 2014, 111, 327-335.	4.2	96
17	Polydopamine as a new modification material to accelerate startup and promote anode performance in microbial fuel cells. <i>Journal of Power Sources</i> , 2017, 343, 477-482.	4.0	93
18	Influence of NaOH and thermal pretreatment on dewatered activated sludge solubilisation and subsequent anaerobic digestion: Focused on high-solid state. <i>Bioresource Technology</i> , 2015, 185, 171-177.	4.8	92

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19	Superhydrophobic Air-Breathing Cathode for Efficient Hydrogen Peroxide Generation through Two-Electron Pathway Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35410-35419.	4.0	92
20	Enhanced biodegradation of aged petroleum hydrocarbons in soils by glucose addition in microbial fuel cells. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 267-275.	1.6	86
21	Bioelectrochemical Ammoniation Coupled with Microbial Electrolysis for Nitrogen Recovery from Nitrate in Wastewater. <i>Environmental Science & Technology</i> , 2020, 54, 3002-3011.	4.6	71
22	Acetate limitation selects <i>Geobacter</i> from mixed inoculum and reduces polysaccharide in electroactive biofilm. <i>Water Research</i> , 2020, 177, 115776.	5.3	70
23	A novel electro-coagulation-Fenton for energy efficient cyanobacteria and cyanotoxins removal without chemical addition. <i>Journal of Hazardous Materials</i> , 2019, 365, 650-658.	6.5	65
24	<i>Geobacter</i> Autogenically Secretes Fulvic Acid to Facilitate the Dissimilated Iron Reduction and Vivianite Recovery. <i>Environmental Science & Technology</i> , 2020, 54, 10850-10858.	4.6	65
25	Phosphorus Competition in Bioinduced Vivianite Recovery from Wastewater. <i>Environmental Science & Technology</i> , 2018, 52, 13863-13870.	4.6	64
26	Subminimal inhibitory concentration (sub-MIC) of antibiotic induces electroactive biofilm formation in bioelectrochemical systems. <i>Water Research</i> , 2017, 125, 280-287.	5.3	63
27	Accelerated OH ⁻ Transport in Activated Carbon Air Cathode by Modification of Quaternary Ammonium for Microbial Fuel Cells. <i>Environmental Science & Technology</i> , 2014, 48, 4191-4198.	4.6	60
28	Resin-enhanced rolling activated carbon electrode for efficient capacitive deionization. <i>Desalination</i> , 2017, 419, 20-28.	4.0	56
29	Revealing Decay Mechanisms of H ₂ O ₂ -Based Electrochemical Advanced Oxidation Processes after Long-Term Operation for Phenol Degradation. <i>Environmental Science & Technology</i> , 2020, 54, 10916-10925.	4.6	56
30	Fenton-based technologies as efficient advanced oxidation processes for microcystin-LR degradation. <i>Science of the Total Environment</i> , 2021, 753, 141809.	3.9	56
31	Electron Flow Shifts from Anode Respiration to Nitrate Reduction During Electroactive Biofilm Thickening. <i>Environmental Science & Technology</i> , 2020, 54, 9593-9600.	4.6	55
32	A microbial fuel cell with the three-dimensional electrode applied an external voltage for synthesis of hydrogen peroxide from organic matter. <i>Journal of Power Sources</i> , 2015, 287, 291-296.	4.0	52
33	Alternating Current Influences Anaerobic Electroactive Biofilm Activity. <i>Environmental Science & Technology</i> , 2016, 50, 9169-9176.	4.6	52
34	Bifunctional quaternary ammonium compounds to inhibit biofilm growth and enhance performance for activated carbon air-cathode in microbial fuel cells. <i>Journal of Power Sources</i> , 2014, 272, 895-899.	4.0	51
35	Real-Time Imaging Revealed That Exoelectrogens from Wastewater Are Selected at the Center of a Gradient Electric Field. <i>Environmental Science & Technology</i> , 2018, 52, 8939-8946.	4.6	49
36	Repeated transfer enriches highly active electrotrophic microbial consortia on biocathodes in microbial fuel cells. <i>Biosensors and Bioelectronics</i> , 2018, 121, 118-124.	5.3	48

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37	A facile approach to ultralight and recyclable 3D self-assembled copolymer/graphene aerogels for efficient oil/water separation. <i>Science of the Total Environment</i> , 2019, 694, 133671.	3.9	46
38	Nutrient conversion and recovery from wastewater using electroactive bacteria. <i>Science of the Total Environment</i> , 2020, 706, 135690.	3.9	46
39	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
40	Electrode potential regulates phenol degradation pathways in oxygen-diffused microbial electrochemical system. <i>Chemical Engineering Journal</i> , 2020, 381, 122663.	6.6	43
41	Long-Term Succession Shows Interspecies Competition of <i>Geobacter</i> in Exoelectrogenic Biofilms. <i>Environmental Science & Technology</i> , 2021, 55, 14928-14937.	4.6	43
42	Power generation using adjustable Nafion/PTFE mixed binders in air-cathode microbial fuel cells. <i>Biosensors and Bioelectronics</i> , 2010, 26, 946-948.	5.3	42
43	Amidoxime modified Fe ₃ O ₄ @TiO ₂ particles for antibacterial and efficient uranium extraction from seawater. <i>Chemosphere</i> , 2022, 287, 132137.	4.2	40
44	Protection of Electroactive Biofilm from Extreme Acid Shock by Polydopamine Encapsulation. <i>Environmental Science and Technology Letters</i> , 2017, 4, 345-349.	3.9	39
45	Two key <i>Geobacter</i> species of wastewater-enriched electroactive biofilm respond differently to electric field. <i>Water Research</i> , 2022, 213, 118185.	5.3	39
46	Bioelectrochemical Sensor Using Living Biofilm To in Situ Evaluate Flocculant Toxicity. <i>ACS Sensors</i> , 2016, 1, 1374-1379.	4.0	38
47	Gravity settling of planktonic bacteria to anodes enhances current production of microbial fuel cells. <i>Applied Energy</i> , 2017, 198, 261-266.	5.1	38
48	Regeneration of activated carbon air-cathodes by half-wave rectified alternating fields in microbial fuel cells. <i>Applied Energy</i> , 2018, 219, 199-206.	5.1	37
49	Syntrophic Growth of <i>Geobacter sulfurreducens</i> Accelerates Anaerobic Denitrification. <i>Frontiers in Microbiology</i> , 2018, 9, 1572.	1.5	37
50	Optimal set of electrode potential enhances the toxicity response of biocathode to formaldehyde. <i>Science of the Total Environment</i> , 2018, 644, 1485-1492.	3.9	37
51	In-situ hydrogen peroxide synthesis with environmental applications in bioelectrochemical systems: A state-of-the-art review. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 3204-3219.	3.8	36
52	Swift Acid Rain Sensing by Synergistic Rhizospheric Bioelectrochemical Responses. <i>ACS Sensors</i> , 2018, 3, 1424-1430.	4.0	34
53	Quaternary Ammonium Compound in Anolyte without Functionalization Accelerates the Startup of Bioelectrochemical Systems using Real Wastewater. <i>Electrochimica Acta</i> , 2016, 188, 801-808.	2.6	33
54	Exposure to Per- and Polyfluoroalkyl Substances and Adiposity at Age 12 Years: Evaluating Periods of Susceptibility. <i>Environmental Science & Technology</i> , 2020, 54, 16039-16049.	4.6	33

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55	Graphite accelerate dissimilatory iron reduction and vivianite crystal enlargement. <i>Water Research</i> , 2021, 189, 116663.	5.3	32
56	A promising destiny for Feammox: From biogeochemical ammonium oxidation to wastewater treatment. <i>Science of the Total Environment</i> , 2021, 790, 148038.	3.9	32
57	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
58	The micro-niche of exoelectrogens influences bioelectricity generation in bioelectrochemical systems. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110184.	8.2	31
59	Enhanced performance of microbial fuel cells using Ag nanoparticles modified Co, N co-doped carbon nanosheets as bifunctional cathode catalyst. <i>Bioelectrochemistry</i> , 2021, 138, 107717.	2.4	31
60	Synergistic effect between poly(diallyldimethylammonium chloride) and reduced graphene oxide for high electrochemically active biofilm in microbial fuel cell. <i>Electrochimica Acta</i> , 2020, 359, 136949.	2.6	29
61	Electrosynthesis of H ₂ O ₂ through a two-electron oxygen reduction reaction by carbon based catalysts: From mechanism, catalyst design to electrode fabrication. <i>Environmental Science and Ecotechnology</i> , 2022, 11, 100170.	6.7	29
62	Thin film nanocomposite membrane with triple-layer structure for enhanced water flux and antibacterial capacity. <i>Science of the Total Environment</i> , 2021, 770, 145370.	3.9	28
63	Engineering the Local Atomic Environments of Indium Single-Atom Catalysts for Efficient Electrochemical Production of Hydrogen Peroxide. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	27
64	Tailoring spatial structure of electroactive biofilm for enhanced activity and direct electron transfer on iron phthalocyanine modified anode in microbial fuel cells. <i>Biosensors and Bioelectronics</i> , 2021, 191, 113410.	5.3	26
65	Biosynthesis of vivianite from microbial extracellular electron transfer and environmental application. <i>Science of the Total Environment</i> , 2021, 762, 143076.	3.9	25
66	Tailoring Surface Properties of Electrodes for Synchronous Enhanced Extracellular Electron Transfer and Enriched Exoelectrogens in Microbial Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 58508-58521.	4.0	25
67	Mechanism of sonication time on structure and adsorption properties of 3D peanut shell/graphene oxide aerogel. <i>Science of the Total Environment</i> , 2020, 739, 139983.	3.9	24
68	Acid pretreatment of three-dimensional graphite cathodes enhances the hydrogen peroxide synthesis in bioelectrochemical systems. <i>Science of the Total Environment</i> , 2018, 630, 308-313.	3.9	23
69	Unignorable toxicity of formaldehyde on electroactive bacteria in bioelectrochemical systems. <i>Environmental Research</i> , 2020, 183, 109143.	3.7	23
70	Insight of bacteria and archaea in Feammox community enriched from different soils. <i>Environmental Research</i> , 2022, 203, 111802.	3.7	22
71	Bioelectrochemical system for dehalogenation: A review. <i>Environmental Pollution</i> , 2022, 293, 118519.	3.7	21
72	Electrochemical regulation on the metabolism of anode biofilms under persistent exogenous bacteria interference. <i>Electrochimica Acta</i> , 2020, 340, 135922.	2.6	20

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73	Effects of ammonia on electrochemical active biofilm in microbial electrolysis cells for synthetic swine wastewater treatment. <i>Water Research</i> , 2022, 219, 118570.	5.3	20
74	Spatially heterogeneous propionate conversion towards electricity in bioelectrochemical systems. <i>Journal of Power Sources</i> , 2020, 449, 227557.	4.0	18
75	Machine Learning Enables Quantification of Multiple Toxicants with Microbial Electrochemical Sensors. <i>ACS ES&T Engineering</i> , 2022, 2, 92-100.	3.7	17
76	Bioinspired succinyl- β -cyclodextrin membranes for enhanced uranium extraction and reclamation. <i>Environmental Science: Nano</i> , 2020, 7, 3124-3135.	2.2	16
77	Bioelectrochemical partial-denitrification coupled with anammox for autotrophic nitrogen removal. <i>Chemical Engineering Journal</i> , 2022, 434, 134667.	6.6	16
78	Non-herbal tea consumption and ovarian cancer risk: a systematic review and meta-analysis of observational epidemiologic studies with indirect comparison and dose-response analysis. <i>Carcinogenesis</i> , 2018, 39, 808-818.	1.3	14
79	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
80	Graphene family for hydrogen peroxide production in electrochemical system. <i>Science of the Total Environment</i> , 2021, 769, 144491.	3.9	14
81	Pretreatment of Raw Biochar and Phosphate Removal Performance of Modified Granular Iron/Biochar. <i>Transactions of Tianjin University</i> , 2017, 23, 340-350.	3.3	13
82	Diabetes in relation to Barrett's esophagus and adenocarcinomas of the esophagus: A pooled study from the International Barrett's and Esophageal Adenocarcinoma Consortium. <i>Cancer</i> , 2019, 125, 4210-4223.	2.0	13
83	Heterotopic formaldehyde biodegradation through UV/H ₂ O ₂ system with biosynthetic H ₂ O ₂ . <i>Water Environment Research</i> , 2019, 91, 598-605.	1.3	13
84	Heterogeneous Structure Regulated by Selection Pressure on Bacterial Adhesion Optimized the Viability Stratification Structure of Electroactive Biofilms. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 2754-2767.	4.0	13
85	Associations of mid-childhood bisphenol A and bisphenol S exposure with mid-childhood and adolescent obesity. <i>Environmental Epidemiology</i> , 2022, 6, e187.	1.4	13
86	A novel single chamber vertical baffle flow biocathode microbial electrochemical system with microbial separator. <i>Bioresource Technology</i> , 2019, 294, 122236.	4.8	12
87	A highly sensitive bioelectrochemical toxicity sensor and its evaluation using immediate current attenuation. <i>Science of the Total Environment</i> , 2021, 766, 142646.	3.9	12
88	Visible-Light Photocatalytic Chlorite Activation Mediated by Oxygen Vacancy Abundant Nd-Doped BiVO ₄ for Efficient Chlorine Dioxide Generation and Pollutant Degradation. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 31920-31932.	4.0	12
89	Efficient regeneration of activated carbon electrode by half-wave rectified alternating fields in capacitive deionization system. <i>Electrochimica Acta</i> , 2019, 298, 372-378.	2.6	11
90	Surface modification by β -cyclodextrin/polyquaternium-11 composite for enhanced biofilm formation in microbial fuel cells. <i>Journal of Power Sources</i> , 2020, 480, 228789.	4.0	11

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91	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
92	Enhanced electrocatalytic activity and antifouling performance by iron phthalocyanine doped filtration membrane cathode. <i>Chemical Engineering Journal</i> , 2021, 413, 127536.	6.6	11
93	The UV/H ₂ O ₂ process based on H ₂ O ₂ in-situ generation for water disinfection. <i>Journal of Hazardous Materials Letters</i> , 2021, 2, 100020.	2.0	11
94	Amplifying anti-flooding electrode to fabricate modular electro-fenton system for degradation of antiviral drug lamivudine in wastewater. <i>Journal of Hazardous Materials</i> , 2022, 428, 128185.	6.5	11
95	Fixed Bed Adsorption Study on Phosphate Removal Using Nanosized FeOOH-Modified Anion Resin. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-5.	1.5	10
96	Enhanced adsorption of phosphate by loading nanosized ferric oxyhydroxide on anion resin. <i>Frontiers of Environmental Science and Engineering</i> , 2014, 8, 531-538.	3.3	10
97	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
98	Thermal reduced graphene oxide enhanced in-situ H ₂ O ₂ generation and electrochemical advanced oxidation performance of air-breathing cathode. <i>Environmental Research</i> , 2022, 204, 112327.	3.7	9
99	The use of natural hierarchical porous carbon from Artemia cyst shells alleviates power decay in activated carbon air-cathode. <i>Electrochimica Acta</i> , 2019, 315, 41-47.	2.6	8
100	Excessive extracellular polymeric substances induced by organic shocks accelerate electron transfer of oxygen reducing biocathode. <i>Science of the Total Environment</i> , 2021, 774, 145767.	3.9	7
101	Improved membrane permeability with cetyltrimethylammonium bromide (CTAB) addition for enhanced bidirectional transport of substrate and electron shuttles. <i>Science of the Total Environment</i> , 2022, 822, 153443.	3.9	7
102	Biosynthesis and recycling of magnetite nanocatalysts from Fe-rich sludge. <i>Resources, Conservation and Recycling</i> , 2022, 182, 106348.	5.3	7
103	Fruit and vegetable consumptions in relation to frequent mental distress in breast cancer survivors. <i>Supportive Care in Cancer</i> , 2021, 29, 193-201.	1.0	6
104	Enhanced oxygen reduction activity and high-quality effluent of membrane filtration electrodes with Prussian blue in microbial fuel cells. <i>Science of the Total Environment</i> , 2021, 753, 142021.	3.9	6
105	Removal of Cr(VI) ions from wastewater using nanosized ferric oxyhydroxide loaded anion exchanger on a fixedbed column. <i>Desalination and Water Treatment</i> , 2014, 52, 3572-3578.	1.0	4
106	Synthesis of silver nanoparticles using living electroactive biofilm protected by polydopamine. <i>IScience</i> , 2021, 24, 102933.	1.9	4
107	Carbon nanotubes accelerates the bio-induced vivianite formation. <i>Science of the Total Environment</i> , 2022, 844, 157060.	3.9	4
108	Air-Cathodes. , 2019, , 99-115.		1