

# Booki Min

## List of Publications by Year in descending order

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88  
papers

6,831  
citations

81889

39  
h-index

60616

81  
g-index

90  
all docs

90  
docs citations

90  
times ranked

4607  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Concise Review on the Recent Developments in the Internet of Things (IoT)-Based Smart Aquaculture Practices. <i>Reviews in Fisheries Science and Aquaculture</i> , 2023, 31, 103-118.	9.1	9
2	Porous reduced-graphene oxide supported hollow titania (rGO/TiO <sub>2</sub> ) as an effective catalyst for upgrading electromethanogenesis. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 1121-1131.	7.1	3
3	Application of bioelectrochemical systems to regulate and accelerate the anaerobic digestion processes. <i>Chemosphere</i> , 2022, 287, 132299.	8.2	10
4	A critical review on microbe-electrode interactions towards heavy metal ion detection using microbial fuel cell technology. <i>Bioresource Technology</i> , 2022, 347, 126589.	9.6	18
5	Enhancing biogas and electricity recovery using an iron-manganese oxide catalyzed bioanode in an integrated submersible microbial fuel cell-anaerobic digester. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102276.	2.7	3
6	Accelerating anaerobic digestion process with novel single chamber microbial electrochemical systems with baffle. <i>Bioresource Technology</i> , 2022, 359, 127474.	9.6	11
7	Fundamentals and recent progress in bioelectrochemical system-assisted biohythane production. <i>Bioresource Technology</i> , 2022, 361, 127641.	9.6	8
8	A mesoporous silica-supported CeO <sub>2</sub> /cellulose cathode catalyst for efficient bioelectrochemical reduction of inorganic carbon to biofuels. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 1993-2001.	3.7	6
9	Influence of Trace Metals concentration on Methane generation using Microbial Electrochemical Systems. <i>Process Biochemistry</i> , 2021, 102, 213-219.	3.7	4
10	Copper ferrite supported reduced graphene oxide as cathode materials to enhance microbial electrosynthesis of volatile fatty acids from CO <sub>2</sub> . <i>Science of the Total Environment</i> , 2021, 768, 144477.	8.0	29
11	Microbial electrosynthesis of multi-carbon volatile fatty acids under the influence of different imposed potentials. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101118.	2.7	7
12	MnO <sub>2</sub> /reduced graphene oxide nanohybrids as a cathode catalyst for the microbial reduction of CO <sub>2</sub> to acetate and isobutyric acid. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101114.	2.7	12
13	Ginkgo leaves extract-assisted synthesis of ZnO/CuO nanocrystals for efficient UV-induced photodegradation of organic dyes and antibacterial activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 17154-17169.	2.2	13
14	Conductive magnetite nanoparticles trigger syntrophic methane production in single chamber microbial electrochemical systems. <i>Bioresource Technology</i> , 2020, 296, 122265.	9.6	52
15	Enhancing electrochemical degradation of phenol at optimum pH condition with a Pt/Ti anode electrode. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 3248-3259.	2.2	19
16	Deoiled algal biomass derived renewable sugars for bioethanol and biopolymer production in biorefinery framework. <i>Bioresource Technology</i> , 2020, 296, 122315.	9.6	53
17	Concomitant use of Azolla derived bioelectrode as anode and hydrolysate as substrate for microbial fuel cell and electro-fermentation applications. <i>Science of the Total Environment</i> , 2020, 707, 135851.	8.0	23
18	Enrichment of specific microbial communities by optimum applied voltages for enhanced methane production by microbial electrosynthesis in anaerobic digestion. <i>Bioresource Technology</i> , 2020, 300, 122624.	9.6	26

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19	Regulated surface potential impacts bioelectrogenic activity, interfacial electron transfer and microbial dynamics in microbial fuel cell. <i>Renewable Energy</i> , 2020, 149, 424-434.	8.9	32
20	Specific enrichment of different <i>Geobacter</i> sp. in anode biofilm by varying interspatial distance of electrodes in air-cathode microbial fuel cell (MFC). <i>Electrochimica Acta</i> , 2020, 331, 135388.	5.2	45
21	Recent advances in cathode materials and configurations for upgrading methane in bioelectrochemical systems integrated with anaerobic digestion. <i>Chemical Engineering Journal</i> , 2020, 392, 123689.	12.7	93
22	Influence of Humidity on Performance of Single Chamber Air-Cathode Microbial Fuel Cells with Different Separators. <i>Processes</i> , 2020, 8, 861.	2.8	5
23	Using multiple carbon brush cathode in a novel tubular photosynthetic microbial fuel cell for enhancing bioenergy generation and advanced wastewater treatment. <i>Bioresource Technology</i> , 2020, 316, 123928.	9.6	19
24	Progress of Advanced Nanomaterials in the Non-Enzymatic Electrochemical Sensing of Glucose and H <sub>2</sub> O <sub>2</sub> . <i>Biosensors</i> , 2020, 10, 151.	4.7	72
25	Bioelectrosynthetic Conversion of CO <sub>2</sub> Using Different Redox Mediators: Electron and Carbon Balances in a Bioelectrochemical System. <i>Energies</i> , 2020, 13, 2572.	3.1	27
26	Leachate treatment and electricity generation using an algae-cathode microbial fuel cell with continuous flow through the chambers in series. <i>Science of the Total Environment</i> , 2020, 723, 138054.	8.0	42
27	Magnetite/zeolite nanocomposite-modified cathode for enhancing methane generation in microbial electrochemical systems. <i>Chemical Engineering Journal</i> , 2020, 393, 124613.	12.7	40
28	Electrochemical treatment of leachate containing highly concentrated phenol and ammonia using a Pt/Ti anode at different current densities. <i>Environmental Technology and Innovation</i> , 2020, 18, 100632.	6.1	23
29	Continuous autotrophic denitrification process for treating ammonium-rich leachate wastewater in bioelectrochemical denitrification system (BEDS). <i>Bioelectrochemistry</i> , 2019, 130, 107340.	4.6	16
30	Potential applications of algae in the cathode of microbial fuel cells for enhanced electricity generation with simultaneous nutrient removal and algae biorefinery: Current status and future perspectives. <i>Bioresource Technology</i> , 2019, 292, 122010.	9.6	68
31	Enhancing bio-alcohol production from volatile fatty acids by suppressing methanogenic activity in single chamber microbial electrosynthesis cells (SCMECs). <i>Bioresource Technology Reports</i> , 2019, 7, 100292.	2.7	26
32	Biofouling effects on the performance of microbial fuel cells and recent advances in biotechnological and chemical strategies for mitigation. <i>Biotechnology Advances</i> , 2019, 37, 107420.	11.7	71
33	Enhanced methane fermentation of municipal sewage sludge by microbial electrochemical systems integrated with anaerobic digestion. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 30357-30366.	7.1	27
34	Highly Porous Fe <sub>x</sub> MnO <sub>y</sub> Microsphere as an Efficient Cathode Catalyst for Microbial Electrosynthesis of Volatile Fatty Acids from CO <sub>2</sub> . <i>ChemElectroChem</i> , 2019, 6, 5973-5983.	3.4	32
35	<i>Azadirachta indica</i> leaf-extract-assisted synthesis of CoO-NiO mixed metal oxide for application in a microbial fuel cell as a cathode catalyst. <i>Sustainable Energy and Fuels</i> , 2019, 3, 3430-3440.	4.9	41
36	Enhanced methane production from acetate intermediate by bioelectrochemical anaerobic digestion at optimal applied voltages. <i>Biomass and Bioenergy</i> , 2019, 127, 105261.	5.7	45

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37	Comparison on efficiency of electrochemical phenol oxidation in two different supporting electrolytes (NaCl and Na <sub>2</sub> SO <sub>4</sub> ) using Pt/Ti electrode. <i>Environmental Technology and Innovation</i> , 2019, 15, 100382.	6.1	31
38	Performance of an air-cathode microbial fuel cell under varied relative humidity conditions in the cathode chamber. <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 1247-1254.	3.4	9
39	Microalgae-biorefinery with cascading resource recovery design associated to dairy wastewater treatment. <i>Bioresource Technology</i> , 2019, 284, 424-429.	9.6	131
40	Sustainable electricity generation and ammonium removal by microbial fuel cell with a microalgae assisted cathode at various environmental conditions. <i>Bioresource Technology</i> , 2019, 284, 161-167.	9.6	45
41	Biological removal of H <sub>2</sub> S gas in a semi-pilot scale biotrickling filter: Optimization of various parameters for efficient removal at high loading rates and low pH conditions. <i>Bioresource Technology</i> , 2019, 285, 121328.	9.6	24
42	Microbial Electrosynthesis of Bioalcohols through Reduction of High Concentrations of Volatile Fatty Acids. <i>Energy &amp; Fuels</i> , 2019, 33, 4264-4271.	5.1	28
43	Integration of submersible microbial fuel cell in anaerobic digestion for enhanced production of methane and current at varying glucose levels. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7574-7582.	7.1	31
44	In situ integration of microbial electrochemical systems into anaerobic digestion to improve methane fermentation at different substrate concentrations. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2380-2389.	7.1	32
45	Algal Biocathodes. , 2019, , 525-547.		4
46	The performance and long-term stability of low-cost separators in single-chamber bottle-type microbial fuel cells. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 288-297.	2.2	30
47	Physicochemical Parameters Governing Microbial Fuel Cell Performance. , 2018, , 189-208.		1
48	Future Perspectives on Cost-Effective Microbial Fuel Cells in Rural Areas. , 2018, , 283-302.		2
49	Defatted algal biomass as feedstock for short chain carboxylic acids and biohydrogen production in the biorefinery format. <i>Bioresource Technology</i> , 2018, 269, 408-416.	9.6	29
50	Response of microbial community structure to pre-acclimation strategies in microbial fuel cells for domestic wastewater treatment. <i>Bioresource Technology</i> , 2017, 233, 176-183.	9.6	54
51	Algae cathode microbial fuel cells for electricity generation and nutrient removal from landfill leachate wastewater. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 29433-29442.	7.1	76
52	Optimum spacing between electrodes in an air-cathode single chamber microbial fuel cell with a low-cost polypropylene separator. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 1851-1858.	3.4	16
53	Bioelectrochemical methane (CH <sub>4</sub> ) production in anaerobic digestion at different supplemental voltages. <i>Bioresource Technology</i> , 2017, 245, 826-832.	9.6	128
54	Urea removal coupled with enhanced electricity generation in single-chambered microbial fuel cells. <i>Environmental Science and Pollution Research</i> , 2017, 24, 20401-20408.	5.3	24

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55	Effect of influential factors on microbial growth and the correlation between current generation and biomass in an air cathode microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 20606-20614.	7.1	19
56	Insecticides induced biochemical changes in freshwater microalga <i>Chlamydomonas mexicana</i> . <i>Environmental Science and Pollution Research</i> , 2016, 23, 1091-1099.	5.3	46
57	Perchlorate reduction from a highly concentrated aqueous solution by bacterium <i>Rhodococcus</i> sp. YSPW03. <i>Environmental Science and Pollution Research</i> , 2015, 22, 18839-18848.	5.3	3
58	Enhanced performance of an air-cathode microbial fuel cell with oxygen supply from an externally connected algal bioreactor. <i>Bioresource Technology</i> , 2015, 195, 210-216.	9.6	44
59	Minimum interspatial electrode spacing to optimize air-cathode microbial fuel cell operation with a membrane electrode assembly. <i>Bioelectrochemistry</i> , 2015, 106, 263-267.	4.6	35
60	Bioelectrochemical reduction of volatile fatty acids in anaerobic digestion effluent for the production of biofuels. <i>Water Research</i> , 2015, 87, 137-144.	11.3	56
61	Determination of Microbial Growth by Protein Assay in an Air-Cathode Single Chamber Microbial Fuel Cell. <i>Journal of Microbiology and Biotechnology</i> , 2015, 25, 1114-1118.	2.1	5
62	Bacterial communities in a bioelectrochemical denitrification system: The effects of supplemental electron acceptors. <i>Water Research</i> , 2014, 51, 25-36.	11.3	144
63	Tracking the spectroscopic and chromatographic changes of algal derived organic matter in a microbial fuel cell. <i>Environmental Science and Pollution Research</i> , 2014, 21, 2230-2239.	5.3	20
64	Microalgae <i>Scenedesmus obliquus</i> as renewable biomass feedstock for electricity generation in microbial fuel cells (MFCs). <i>Frontiers of Environmental Science and Engineering</i> , 2014, 8, 784-791.	6.0	83
65	Enhancement of microalgae growth and fatty acid content under the influence of phytohormones. <i>Bioresource Technology</i> , 2014, 172, 97-103.	9.6	154
66	Evaluation of microbial fuel cell operation using algae as an oxygen supplier: carbon paper cathode vs. carbon brush cathode. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 2453-2461.	3.4	48
67	Low-cost separators for enhanced power production and field application of microbial fuel cells (MFCs). <i>Electrochimica Acta</i> , 2014, 132, 434-440.	5.2	91
68	Photoautotrophic microalgae <i>Scenedesmus obliquus</i> attached on a cathode as oxygen producers for microbial fuel cell (MFC) operation. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 10275-10283.	7.1	125
69	Increased power generation from primary sludge by a submersible microbial fuel cell and optimum operational conditions. <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 635-642.	3.4	31
70	Nitrate reduction with biotic and abiotic cathodes at various cell voltages in bioelectrochemical denitrification system. <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 231-238.	3.4	75
71	Enrichment of <i>Clostridia</i> during the operation of an external-powered bio-electrochemical denitrification system. <i>Process Biochemistry</i> , 2013, 48, 306-311.	3.7	63
72	Electric power generation by a submersible microbial fuel cell equipped with a membrane electrode assembly. <i>Bioresource Technology</i> , 2012, 118, 412-417.	9.6	28

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73	A systematic model calibration methodology based on multiple errors minimization method for the optimal parameter estimation of ASM1. Korean Journal of Chemical Engineering, 2012, 29, 291-303.	2.7	8
74	Enhancement of fermentative bioenergy (ethanol/hydrogen) production using ultrasonication of <i>Scenedesmus obliquus</i> YSW15 cultivated in swine wastewater effluent. Energy and Environmental Science, 2011, 4, 3513.	30.8	82
75	In situ microbial fuel cell-based biosensor for organic carbon. Bioelectrochemistry, 2011, 81, 99-103.	4.6	93
76	Nitrate as an Oxidant in the Cathode Chamber of a Microbial Fuel Cell for Both Power Generation and Nutrient Removal Purposes. Applied Biochemistry and Biotechnology, 2011, 164, 464-474.	2.9	71
77	Electricity generation and microbial community response to substrate changes in microbial fuel cell. Bioresource Technology, 2011, 102, 1166-1173.	9.6	159
78	Adsorption Studies for the Removal of Nitrate Using Modified Lignite Granular Activated Carbon. Separation Science and Technology, 2011, 46, 2575-2584.	2.5	54
79	Generation of Electricity and Analysis of Microbial Communities in Wheat Straw Biomass-Powered Microbial Fuel Cells. Applied and Environmental Microbiology, 2009, 75, 3389-3395.	3.1	174
80	Innovative microbial fuel cell for electricity production from anaerobic reactors. Journal of Power Sources, 2008, 180, 641-647.	7.8	93
81	Importance of temperature and anodic medium composition on microbial fuel cell (MFC) performance. Biotechnology Letters, 2008, 30, 1213-1218.	2.2	148
82	Evaluation of procedures to acclimate a microbial fuel cell for electricity production. Applied Microbiology and Biotechnology, 2005, 68, 23-30.	3.6	444
83	Electricity generation from swine wastewater using microbial fuel cells. Water Research, 2005, 39, 4961-4968.	11.3	749
84	Electricity generation using membrane and salt bridge microbial fuel cells. Water Research, 2005, 39, 1675-1686.	11.3	524
85	Continuous Electricity Generation from Domestic Wastewater and Organic Substrates in a Flat Plate Microbial Fuel Cell. Environmental Science & Technology, 2004, 38, 5809-5814.	10.0	766
86	Perchlorate removal in sand and plastic media bioreactors. Water Research, 2004, 38, 47-60.	11.3	90
87	Cathode Performance as a Factor in Electricity Generation in Microbial Fuel Cells. Environmental Science & Technology, 2004, 38, 4900-4904.	10.0	570
88	A Simplified Headspace Biochemical Oxygen Demand Test Protocol Based on Oxygen Measurements Using a Fiber Optic Probe. Water Environment Research, 2004, 76, 29-36.	2.7	5