

# Eileen Hao Yu

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

3,210  
citations

147801

31  
h-index

149698

56  
g-index

69  
all docs

69  
docs citations

69  
times ranked

3774  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing hydrogen production through anode fed-batch mode and controlled cell voltage in a microbial electrolysis cell fully catalysed by microorganisms. <i>Chemosphere</i> , 2022, 288, 132548.	8.2	6
2	Zero-Gap Bipolar Membrane Electrolyzer for Carbon Dioxide Reduction Using Acid-Tolerant Molecular Electrocatalysts. <i>Journal of the American Chemical Society</i> , 2022, 144, 7551-7556.	13.7	52
3	Polyaniline on Stainless Steel Fiber Felt as Anodes for Bioelectrodegradation of Acid Blue 29 in Microbial Fuel Cells. <i>Frontiers in Chemical Engineering</i> , 2022, 4, .	2.7	1
4	Mass transfer effect to electrochemical reduction of CO <sub>2</sub> : Electrode, electrocatalyst and electrolyte. <i>Journal of Energy Storage</i> , 2022, 52, 104764.	8.1	39
5	The effect of the polarised cathode, formate and ethanol on chain elongation of acetate in microbial electrosynthesis. <i>Applied Energy</i> , 2021, 283, 116310.	10.1	31
6	Integrated air cathode microbial fuel cell-aerobic bioreactor set-up for enhanced bioelectrodegradation of azo dye Acid Blue 29. <i>Science of the Total Environment</i> , 2021, 756, 143752.	8.0	46
7	Biological and Microbial Fuel Cells. , 2021, , .		1
8	Enhanced bio-production from CO <sub>2</sub> by microbial electrosynthesis (MES) with continuous operational mode. <i>Faraday Discussions</i> , 2021, 230, 344-359.	3.2	8
9	Gas diffusion electrodes modified with binary doped polyaniline for enhanced CO <sub>2</sub> conversion during microbial electrosynthesis. <i>Electrochimica Acta</i> , 2021, 372, 137853.	5.2	28
10	Porous Bilayer Electrode-Guided Gas Diffusion for Enhanced CO <sub>2</sub> Electrochemical Reduction. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100083.	5.8	10
11	Challenges in scale-up of electrochemical CO <sub>2</sub> reduction to formate integrated with product extraction using electrodialysis. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 2461-2471.	3.2	3
12	Zinc removal and recovery from industrial wastewater with a microbial fuel cell: Experimental investigation and theoretical prediction. <i>Science of the Total Environment</i> , 2021, 776, 145934.	8.0	36
13	No re-calibration required? Stability of a bioelectrochemical sensor for biodegradable organic matter over 800 days. <i>Biosensors and Bioelectronics</i> , 2021, 190, 113392.	10.1	8
14	Modeling and Upscaling Analysis of Gas Diffusion Electrode-Based Electrochemical Carbon Dioxide Reduction Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 351-361.	6.7	34
15	Redox mediator as cathode modifier for enhanced degradation of azo dye in a sequential dual chamber microbial fuel cell-aerobic treatment process. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 39427-39437.	7.1	13
16	How to go beyond C <sub>1</sub> products with electrochemical reduction of CO <sub>2</sub> . <i>Sustainable Energy and Fuels</i> , 2021, 5, 5893-5914.	4.9	19
17	Production of formate by CO <sub>2</sub> electrochemical reduction and its application in energy storage. <i>Sustainable Energy and Fuels</i> , 2020, 4, 277-284.	4.9	69
18	Impact of applied cell voltage on the performance of a microbial electrolysis cell fully catalysed by microorganisms. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 2557-2568.	7.1	50

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19	A microbial fuel cell sensor for unambiguous measurement of organic loading and definitive identification of toxic influents. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 612-621.	2.4	13
20	Copper–Indium Binary Catalyst on a Gas Diffusion Electrode for High-Performance CO <sub>2</sub> Electrochemical Reduction with Record CO Production Efficiency. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 601-608.	8.0	57
21	Parameters influencing the development of highly conductive and efficient biofilm during microbial electrosynthesis: the importance of applied potential and inorganic carbon source. <i>Npj Biofilms and Microbiomes</i> , 2020, 6, 40.	6.4	45
22	Realizing Full Potential of Bioelectrochemical and Photoelectrochemical Systems. <i>Joule</i> , 2020, 4, 2085-2087.	24.0	11
23	Detection of 4-Nitrophenol, a Model Toxic Compound, Using Multi-Stage Microbial Fuel Cells. <i>Frontiers in Environmental Science</i> , 2020, 8, .	3.3	18
24	Editorial: International Society for Microbial Electrochemistry and Technology: Outputs From the 2018 Regional Meetings. <i>Frontiers in Energy Research</i> , 2020, 8, .	2.3	0
25	Influence of temperature and other system parameters on microbial fuel cell performance: Numerical and experimental investigation. <i>Chemical Engineering Journal</i> , 2020, 388, 124176.	12.7	78
26	High Performing Gas Diffusion Biocathode for Microbial Fuel Cells Using Acidophilic Iron Oxidizing Bacteria. <i>Frontiers in Energy Research</i> , 2019, 7, .	2.3	22
27	Bioelectrochemical treatment and recovery of copper from distillery waste effluents using power and voltage control strategies. <i>Journal of Hazardous Materials</i> , 2019, 371, 18-26.	12.4	14
28	Low cost and efficient alloy electrocatalysts for CO <sub>2</sub> reduction to formate. <i>Journal of CO<sub>2</sub> Utilization</i> , 2019, 32, 1-10.	6.8	62
29	Enhanced selectivity of carbonaceous products from electrochemical reduction of CO <sub>2</sub> in aqueous media. <i>Journal of CO<sub>2</sub> Utilization</i> , 2019, 30, 214-221.	6.8	40
30	Tailoring properties of reduced graphene oxide by oxygen plasma treatment. <i>Applied Surface Science</i> , 2018, 440, 651-659.	6.1	55
31	The Effect of Oxygen Mass Transfer on Aerobic Biocathode Performance, Biofilm Growth and Distribution in Microbial Fuel Cells. <i>Fuel Cells</i> , 2018, 18, 4-12.	2.4	19
32	Life cycle, techno-economic and dynamic simulation assessment of bioelectrochemical systems: A case of formic acid synthesis. <i>Bioresource Technology</i> , 2018, 255, 39-49.	9.6	86
33	Enzymatic fuel cells with an oxygen resistant variant of pyranose-2-oxidase as anode biocatalyst. <i>Biosensors and Bioelectronics</i> , 2018, 107, 17-25.	10.1	20
34	Simultaneous Electrochemical Detection of Glucose and Non-Esterified Fatty Acids (NEFAs) for Diabetes Management. <i>IEEE Sensors Journal</i> , 2018, 18, 9075-9080.	4.7	12
35	Extending the dynamic range of biochemical oxygen demand sensing with multi-stage microbial fuel cells. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 2029-2040.	2.4	31
36	Effects of Applied Potential and Reactants to Hydrogen-Producing Biocathode in a Microbial Electrolysis Cell. <i>Frontiers in Chemistry</i> , 2018, 6, 318.	3.6	21

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37	Stainless Steel-Based Materials for Energy Generation and Storage in Bioelectrochemical Systems Applications. ECS Transactions, 2018, 85, 1181-1192.	0.5	5
38	Electrochemical Reduction of CO <sub>2</sub> at Multi-Metallic Interfaces. ECS Transactions, 2018, 85, 57-66.	0.5	10
39	Nutritional control of antibiotic production by <i>Streptomyces platensis</i> MA7327: importance of l-aspartic acid. Journal of Antibiotics, 2017, 70, 828-831.	2.0	6
40	Evaluation of porous carbon felt as an aerobic biocathode support in terms of hydrogen peroxide. Journal of Power Sources, 2017, 356, 459-466.	7.8	11
41	Bioelectrochemical conversion of waste to energy using microbial fuel cell technology. Process Biochemistry, 2017, 57, 141-158.	3.7	83
42	Bioanode as a limiting factor to biocathode performance in microbial electrolysis cells. Bioresource Technology, 2017, 238, 313-324.	9.6	51
43	Recent Advances in Microbial Electrochemical Technologies (Topical Issue EU-ISMET 2016). Fuel Cells, 2017, 17, 582-583.	2.4	1
44	Electrochemical Detection of Plasma Immunoglobulin as a Biomarker for Alzheimer's Disease. Sensors, 2017, 17, 2464.	3.8	25
45	Power Harvesting from Human Serum in Buckypaper-Based Enzymatic Biofuel Cell. Frontiers in Energy Research, 2016, 4, .	2.3	26
46	Microbial fuel cells with highly active aerobic biocathodes. Journal of Power Sources, 2016, 324, 8-16.	7.8	77
47	Anion exchange polymer coated graphite granule electrodes for improving the performance of anodes in unbuffered microbial fuel cells. Journal of Power Sources, 2016, 330, 211-218.	7.8	10
48	Harvesting Energy using Biocatalysts. Fuel Cells, 2016, 16, 517-521.	2.4	4
49	A multilevel sustainability analysis of zinc recovery from wastes. Resources, Conservation and Recycling, 2016, 113, 88-105.	10.8	47
50	A critical review of integration analysis of microbial electrosynthesis (MES) systems with waste biorefineries for the production of biofuel and chemical from reuse of CO <sub>2</sub> . Renewable and Sustainable Energy Reviews, 2016, 56, 116-132.	16.4	147
51	Iron phthalocyanine and MnOx composite catalysts for microbial fuel cell applications. Applied Catalysis B: Environmental, 2016, 181, 279-288.	20.2	129
52	Preparation and evaluation of a highly stable palladium yttrium platinum core-shell structure catalyst for oxygen reduction reactions. Applied Catalysis B: Environmental, 2015, 162, 593-601.	20.2	38
53	Electrochemical detection of non-esterified fatty acid by layer-by-layer assembled enzyme electrodes. Sensors and Actuators B: Chemical, 2014, 190, 535-541.	7.8	15
54	A direct glucose alkaline fuel cell using MnO <sub>2</sub> -carbon nanocomposite supported gold catalyst for anode glucose oxidation. Journal of Power Sources, 2013, 221, 1-5.	7.8	81

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55	Application of anion exchange ionomer for oxygen reduction catalysts in microbial fuel cells. <i>Electrochemistry Communications</i> , 2012, 21, 30-35.	4.7	22
56	Direct oxidation alkaline fuelcells: from materials to systems. <i>Energy and Environmental Science</i> , 2012, 5, 5668-5680.	30.8	228
57	A polytetrafluoroethylene-quaternary 1,4-diazabicyclo-[2.2.2]-octane polysulfone composite membrane for alkaline anion exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 10022-10026.	7.1	71
58	Evaluation of hydrolysis and fermentation rates in microbial fuel cells. <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 789-798.	3.6	59
59	Electrochemical Oxidation of Glucose Using Mutant Glucose Oxidase from Directed Protein Evolution for Biosensor and Biofuel Cell Applications. <i>Applied Biochemistry and Biotechnology</i> , 2011, 165, 1448-1457.	2.9	23
60	Feasibility Study of Introducing Redox Property by Modification of PMBN Polymer for Biofuel Cell Applications. <i>Applied Biochemistry and Biotechnology</i> , 2010, 160, 1094-1101.	2.9	8
61	Principles and Materials Aspects of Direct Alkaline Alcohol Fuel Cells. <i>Energies</i> , 2010, 3, 1499-1528.	3.1	309
62	Enzymatic Biofuel Cells—Fabrication of Enzyme Electrodes. <i>Energies</i> , 2010, 3, 23-42.	3.1	125
63	Electrochemical reduction of oxygen with iron phthalocyanine in neutral media. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 705-711.	2.9	82
64	Direct methanol alkaline fuel cells with catalysed anion exchange membrane electrodes. <i>Journal of Applied Electrochemistry</i> , 2005, 35, 91-96.	2.9	62
65	Direct methanol alkaline fuel cell with catalysed metal mesh anodes. <i>Electrochemistry Communications</i> , 2004, 6, 361-365.	4.7	110
66	Characterisation of platinised Ti mesh electrodes using electrochemical methods: methanol oxidation in sodium hydroxide solutions. <i>Electrochimica Acta</i> , 2004, 49, 2443-2452.	5.2	58
67	A study of the anodic oxidation of methanol on Pt in alkaline solutions. <i>Journal of Electroanalytical Chemistry</i> , 2003, 547, 17-24.	3.8	225