

Eileen Hao Yu

List of Publications by Year in descending order

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67
papers

3,210
citations

147726

31
h-index

149623

56
g-index

69
all docs

69
docs citations

69
times ranked

3774
citing authors

#	ARTICLE	IF	CITATIONS
1	Principles and Materials Aspects of Direct Alkaline Alcohol Fuel Cells. <i>Energies</i> , 2010, 3, 1499-1528.	1.6	309
2	Direct oxidation alkaline fuelcells: from materials to systems. <i>Energy and Environmental Science</i> , 2012, 5, 5668-5680.	15.6	228
3	A study of the anodic oxidation of methanol on Pt in alkaline solutions. <i>Journal of Electroanalytical Chemistry</i> , 2003, 547, 17-24.	1.9	225
4	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 ₂ . <i>Renewable and Sustainable Energy Reviews</i> , 2016, 56, 116-132.	8.2	147
5	Iron phthalocyanine and MnOx composite catalysts for microbial fuel cell applications. <i>Applied Catalysis B: Environmental</i> , 2016, 181, 279-288.	10.8	129
6	Enzymatic Biofuel Cells—Fabrication of Enzyme Electrodes. <i>Energies</i> , 2010, 3, 23-42.	1.6	125
7	Direct methanol alkaline fuel cell with catalysed metal mesh anodes. <i>Electrochemistry Communications</i> , 2004, 6, 361-365.	2.3	110
8	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.	4.8	86
9	Bioelectrochemical conversion of waste to energy using microbial fuel cell technology. <i>Process Biochemistry</i> , 2017, 57, 141-158.	1.8	83
10	Electrochemical reduction of oxygen with iron phthalocyanine in neutral media. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 705-711.	1.5	82
11	A direct glucose alkaline fuel cell using MnO ₂ —carbon nanocomposite supported gold catalyst for anode glucose oxidation. <i>Journal of Power Sources</i> , 2013, 221, 1-5.	4.0	81
12	Influence of temperature and other system parameters on microbial fuel cell performance: Numerical and experimental investigation. <i>Chemical Engineering Journal</i> , 2020, 388, 124176.	6.6	78
13	Microbial fuel cells with highly active aerobic biocathodes. <i>Journal of Power Sources</i> , 2016, 324, 8-16.	4.0	77
14	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.	3.8	71
15	Production of formate by CO ₂ electrochemical reduction and its application in energy storage. <i>Sustainable Energy and Fuels</i> , 2020, 4, 277-284.	2.5	69
16	Direct methanol alkaline fuel cells with catalysed anion exchange membrane electrodes. <i>Journal of Applied Electrochemistry</i> , 2005, 35, 91-96.	1.5	62
17	Low cost and efficient alloy electrocatalysts for CO ₂ reduction to formate. <i>Journal of CO₂ Utilization</i> , 2019, 32, 1-10.	3.3	62
18	Evaluation of hydrolysis and fermentation rates in microbial fuel cells. <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 789-798.	1.7	59

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19	Characterisation of platinised Ti mesh electrodes using electrochemical methods: methanol oxidation in sodium hydroxide solutions. <i>Electrochimica Acta</i> , 2004, 49, 2443-2452.	2.6	58
20	Copper–Indium Binary Catalyst on a Gas Diffusion Electrode for High-Performance CO ₂ Electrochemical Reduction with Record CO Production Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 601-608.	4.0	57
21	Tailoring properties of reduced graphene oxide by oxygen plasma treatment. <i>Applied Surface Science</i> , 2018, 440, 651-659.	3.1	55
22	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.	6.6	52
23	Bioanode as a limiting factor to biocathode performance in microbial electrolysis cells. <i>Bioresource Technology</i> , 2017, 238, 313-324.	4.8	51
24	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.	3.8	50
25	A multilevel sustainability analysis of zinc recovery from wastes. <i>Resources, Conservation and Recycling</i> , 2016, 113, 88-105.	5.3	47
26	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.	3.9	46
27	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.	2.9	45
28	Enhanced selectivity of carbonaceous products from electrochemical reduction of CO ₂ in aqueous media. <i>Journal of CO₂ Utilization</i> , 2019, 30, 214-221.	3.3	40
29	Mass transfer effect to electrochemical reduction of CO ₂ : Electrode, electrocatalyst and electrolyte. <i>Journal of Energy Storage</i> , 2022, 52, 104764.	3.9	39
30	Preparation and evaluation of a highly stable palladium yttrium platinum core–shell structure catalyst for oxygen reduction reactions. <i>Applied Catalysis B: Environmental</i> , 2015, 162, 593-601.	10.8	38
31	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.	3.9	36
32	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.	3.2	34
33	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.	1.2	31
34	The effect of the polarised cathode, formate and ethanol on chain elongation of acetate in microbial electrosynthesis. <i>Applied Energy</i> , 2021, 283, 116310.	5.1	31
35	Gas diffusion electrodes modified with binary doped polyaniline for enhanced CO ₂ conversion during microbial electrosynthesis. <i>Electrochimica Acta</i> , 2021, 372, 137853.	2.6	28
36	Power Harvesting from Human Serum in Buckypaper-Based Enzymatic Biofuel Cell. <i>Frontiers in Energy Research</i> , 2016, 4, .	1.2	26

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37	Electrochemical Detection of Plasma Immunoglobulin as a Biomarker for Alzheimer's Disease. <i>Sensors</i> , 2017, 17, 2464.	2.1	25
38	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.	1.4	23
39	Application of anion exchange ionomer for oxygen reduction catalysts in microbial fuel cells. <i>Electrochemistry Communications</i> , 2012, 21, 30-35.	2.3	22
40	High Performing Gas Diffusion Biocathode for Microbial Fuel Cells Using Acidophilic Iron Oxidizing Bacteria. <i>Frontiers in Energy Research</i> , 2019, 7, .	1.2	22
41	Effects of Applied Potential and Reactants to Hydrogen-Producing Biocathode in a Microbial Electrolysis Cell. <i>Frontiers in Chemistry</i> , 2018, 6, 318.	1.8	21
42	Enzymatic fuel cells with an oxygen resistant variant of pyranose-2-oxidase as anode biocatalyst. <i>Biosensors and Bioelectronics</i> , 2018, 107, 17-25.	5.3	20
43	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.	1.5	19
44	How to go beyond C ₁ products with electrochemical reduction of CO ₂ . <i>Sustainable Energy and Fuels</i> , 2021, 5, 5893-5914.	2.5	19
45	Detection of 4-Nitrophenol, a Model Toxic Compound, Using Multi-Stage Microbial Fuel Cells. <i>Frontiers in Environmental Science</i> , 2020, 8, .	1.5	18
46	Electrochemical detection of non-esterified fatty acid by layer-by-layer assembled enzyme electrodes. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 535-541.	4.0	15
47	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.	6.5	14
48	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.	1.2	13
49	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.	3.8	13
50	Simultaneous Electrochemical Detection of Glucose and Non-Esterified Fatty Acids (NEFAs) for Diabetes Management. <i>IEEE Sensors Journal</i> , 2018, 18, 9075-9080.	2.4	12
51	Evaluation of porous carbon felt as an aerobic biocathode support in terms of hydrogen peroxide. <i>Journal of Power Sources</i> , 2017, 356, 459-466.	4.0	11
52	Realizing Full Potential of Bioelectrochemical and Photoelectrochemical Systems. <i>Joule</i> , 2020, 4, 2085-2087.	11.7	11
53	Anion exchange polymer coated graphite granule electrodes for improving the performance of anodes in unbuffered microbial fuel cells. <i>Journal of Power Sources</i> , 2016, 330, 211-218.	4.0	10
54	Electrochemical Reduction of CO ₂ at Multi-Metallic Interfaces. <i>ECS Transactions</i> , 2018, 85, 57-66.	0.3	10

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55	Porous Bilayer Electrodeâ€Guided Gas Diffusion for Enhanced CO ₂ Electrochemical Reduction. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100083.	2.8	10
56	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.	1.4	8
57	Enhanced bio-production from CO ₂ by microbial electrosynthesis (MES) with continuous operational mode. <i>Faraday Discussions</i> , 2021, 230, 344-359.	1.6	8
58	No re-calibration required? Stability of a bioelectrochemical sensor for biodegradable organic matter over 800 days. <i>Biosensors and Bioelectronics</i> , 2021, 190, 113392.	5.3	8
59	Nutritional control of antibiotic production by <i>Streptomyces platensis</i> MA7327: importance of l-aspartic acid. <i>Journal of Antibiotics</i> , 2017, 70, 828-831.	1.0	6
60	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.	4.2	6
61	Stainless Steel-Based Materials for Energy Generation and Storage in Bioelectrochemical Systems Applications. <i>ECS Transactions</i> , 2018, 85, 1181-1192.	0.3	5
62	<i>Harvesting Energy using Biocatalysts</i> . <i>Fuel Cells</i> , 2016, 16, 517-521.	1.5	4
63	Challenges in scaleâ€up of electrochemical CO_2 reduction to formate integrated with product extraction using electro dialysis. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 2461-2471.	1.6	3
64	Recent Advances in Microbial Electrochemical Technologies (Topical Issue EU-ISMET 2016). <i>Fuel Cells</i> , 2017, 17, 582-583.	1.5	1
65	Biological and Microbial Fuel Cells. , 2021, , .		1
66	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, .	1.3	1
67	Editorial: International Society for Microbial Electrochemistry and Technology: Outputs From the 2018 Regional Meetings. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	0