

Kun Guo

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

2,032
citations

304602

22
h-index

377752

34
g-index

38
all docs

38
docs citations

38
times ranked

2247
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Surface Charge and Hydrophobicity on Anodic Biofilm Formation, Community Composition, and Current Generation in Bioelectrochemical Systems. <i>Environmental Science & Technology</i> , 2013, 47, 7563-7570.	4.6	294
2	Engineering electrodes for microbial electrocatalysis. <i>Current Opinion in Biotechnology</i> , 2015, 33, 149-156.	3.3	248
3	Selective Enrichment Establishes a Stable Performing Community for Microbial Electrosynthesis of Acetate from CO ₂ . <i>Environmental Science & Technology</i> , 2015, 49, 8833-8843.	4.6	243
4	Flame Oxidation of Stainless Steel Felt Enhances Anodic Biofilm Formation and Current Output in Bioelectrochemical Systems. <i>Environmental Science & Technology</i> , 2014, 48, 7151-7156.	4.6	131
5	Electrochemical treatment of graphite to enhance electron transfer from bacteria to electrodes. <i>Bioresource Technology</i> , 2011, 102, 3558-3560.	4.8	124
6	A novel tubular microbial electrolysis cell for high rate hydrogen production. <i>Journal of Power Sources</i> , 2017, 356, 484-490.	4.0	107
7	Microfiltration membrane performance in two-chamber microbial fuel cells. <i>Biochemical Engineering Journal</i> , 2010, 52, 194-198.	1.8	86
8	Fermentative Spirochaetes mediate necromass recycling in anoxic hydrocarbon-contaminated habitats. <i>ISME Journal</i> , 2018, 12, 2039-2050.	4.4	74
9	Heat-treated stainless steel felt as scalable anode material for bioelectrochemical systems. <i>Bioresource Technology</i> , 2015, 195, 46-50.	4.8	69
10	Hydrogen production from acetate in a cathode-on-top single-chamber microbial electrolysis cell with a mpor cathode. <i>Biochemical Engineering Journal</i> , 2010, 51, 48-52.	1.8	62
11	Hybridization of photoanode and bioanode to enhance the current production of bioelectrochemical systems. <i>Water Research</i> , 2016, 102, 428-435.	5.3	62
12	TiO ₂ Nanotube Arrays Modified Titanium: A Stable, Scalable, and Cost-Effective Bioanode for Microbial Fuel Cells. <i>Environmental Science and Technology Letters</i> , 2016, 3, 420-424.	3.9	50
13	Surfactant treatment of carbon felt enhances anodic microbial electrocatalysis in bioelectrochemical systems. <i>Electrochemistry Communications</i> , 2014, 39, 1-4.	2.3	46
14	Pyrolytic carbon-coated stainless steel felt as a high-performance anode for bioelectrochemical systems. <i>Bioresource Technology</i> , 2016, 211, 664-668.	4.8	45
15	Enhancement of anodic biofilm formation and current output in microbial fuel cells by composite modification of stainless steel electrodes. <i>Journal of Power Sources</i> , 2017, 342, 98-104.	4.0	42
16	Rapid and Quantitative Assessment of Redox Conduction Across Electroactive Biofilms by using Double Potential Step Chronoamperometry. <i>ChemElectroChem</i> , 2017, 4, 1026-1036.	1.7	41
17	Spontaneous modification of carbon surface with neutral red from its diazonium salts for bioelectrochemical systems. <i>Biosensors and Bioelectronics</i> , 2013, 47, 184-189.	5.3	37
18	Spatial uniformity of microbial diversity in a continuous bioelectrochemical system. <i>Bioresource Technology</i> , 2013, 129, 599-605.	4.8	35

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19	Electrical Stimulation Improves Microbial Salinity Resistance and Organofluorine Removal in Bioelectrochemical Systems. <i>Applied and Environmental Microbiology</i> , 2015, 81, 3737-3744.	1.4	32
20	An electrolytic-hydrogen-fed moving bed biofilm reactor for efficient microbial electrosynthesis of methane from CO ₂ . <i>Chemical Engineering Journal</i> , 2022, 428, 132093.	6.6	30
21	The impact of electron donors and anode potentials on the anode-respiring bacteria community. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 7997-8005.	1.7	26
22	An effective method for hydrogen production in a single-chamber microbial electrolysis by negative pressure control. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 17556-17561.	3.8	22
23	Crucial roles of aeration and catalyst on caffeine removal and bioelectricity generation in a double chambered microbial fuel cell integrated electrocatalytic process. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104636.	3.3	21
24	Carbon black as an alternative cathode material for electrical energy recovery and transfer in a microbial battery. <i>Scientific Reports</i> , 2017, 7, 6981.	1.6	16
25	Enhancement of microbiome management by machine learning for biological wastewater treatment. <i>Microbial Biotechnology</i> , 2021, 14, 59-62.	2.0	12
26	Firmly coating carbon nanoparticles onto titanium as high performance anodes in microbial fuel cells. <i>Electrochimica Acta</i> , 2021, 399, 139416.	2.6	12
27	Microbial fuel cell for simultaneous caffeine removal and bioelectricity generation under various operational conditions in the anodic and cathodic chambers. <i>Environmental Technology and Innovation</i> , 2022, 25, 102158.	3.0	11
28	Effect of heat-treatment atmosphere on the current generation of TiO ₂ nanotube array electrodes in microbial fuel cells. <i>Electrochimica Acta</i> , 2017, 257, 203-209.	2.6	10
29	A new modification method of metal substrates via candle soot to prepare effective anodes in air-cathode microbial fuel cells. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 189-198.	1.6	10
30	A novel photoactive and three-dimensional stainless steel anode dramatically enhances the current density of bioelectrochemical systems. <i>Chemosphere</i> , 2018, 196, 476-481.	4.2	9
31	Primary insights into the effects of organic pollutants and carbon-based cathode materials in a double chambered microbial fuel cell integrated electrocatalytic process. <i>Journal of Water Process Engineering</i> , 2021, 44, 102358.	2.6	9
32	Materials and Their Surface Modification for Use as Anode in Microbial Bioelectrochemical Systems. , 2017, , 403-427.		5
33	Addition of nitrite enhances the electrochemical defluorination of 2-fluoroaniline. <i>Journal of Hazardous Materials</i> , 2015, 300, 607-614.	6.5	4
34	Porous polyurethane particles enhanced the acetate production of a hydrogen-mediated microbial electrosynthesis reactor. <i>Bioresource Technology Reports</i> , 2022, 18, 101073.	1.5	4
35	The Impact of Bioaugmentation on the Performance and Microbial Community Dynamics of an Industrial-Scale Activated Sludge Sequencing Batch Reactor under Various Loading Shocks of Heavy Oil Refinery Wastewater. <i>Water (Switzerland)</i> , 2021, 13, 2822.	1.2	3
36	Fundamentals of Microbial Electrochemical Systems. , 2017, , 51-75.		0

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37	Effect of carbon materials as cathode on wastewater treatment and bioelectricity generation in a double chambered microbial fuel cell. IOP Conference Series: Earth and Environmental Science, 2021, 646, 012001.	0.2	0