

Dipak Ashok Jadhav

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,683
citations

218592

26
h-index

377752

34
g-index

50
all docs

50
docs citations

50
times ranked

1088
citing authors

#	ARTICLE	IF	CITATIONS
1	Third generation in bio-electrochemical system research – A systematic review on mechanisms for recovery of valuable by-products from wastewater. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 76, 1022-1031.	8.2	137
2	Comparison of oxygen and hypochlorite as cathodic electron acceptor in microbial fuel cells. <i>Bioresource Technology</i> , 2014, 154, 330-335.	4.8	88
3	Suppressing methanogens and enriching electrogens in bioelectrochemical systems. <i>Bioresource Technology</i> , 2019, 277, 148-156.	4.8	88
4	Modeling and optimization strategies towards performance enhancement of microbial fuel cells. <i>Bioresource Technology</i> , 2021, 320, 124256.	4.8	88
5	Moving towards practical applications of microbial fuel cells for sanitation and resource recovery. <i>Journal of Water Process Engineering</i> , 2020, 38, 101566.	2.6	85
6	Improving performance of microbial fuel cell while controlling methanogenesis by <i>Chaetoceros</i> pretreatment of anodic inoculum. <i>Bioresource Technology</i> , 2015, 180, 66-71.	4.8	83
7	Agricultural Waste and Wastewater as Feedstock for Bioelectricity Generation Using Microbial Fuel Cells: Recent Advances. <i>Fermentation</i> , 2021, 7, 169.	1.4	72
8	Simultaneous organic matter removal and disinfection of wastewater with enhanced power generation in microbial fuel cell. <i>Bioresource Technology</i> , 2014, 163, 328-334.	4.8	63
9	Architectural adaptations of microbial fuel cells. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 9419-9432.	1.7	57
10	Wastewater treatment in pilot-scale microbial fuel cell using multielectrode assembly with ceramic separator suitable for field applications. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 1809-1817.	1.3	56
11	Enhancing waste activated sludge digestion and power production using hypochlorite as catholyte in clayware microbial fuel cell. <i>Bioresource Technology</i> , 2015, 182, 225-231.	4.8	55
12	Simultaneous Wastewater Treatment, Algal Biomass Production and Electricity Generation in Clayware Microbial Carbon Capture Cells. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 1076-1092.	1.4	54
13	Recent Developments in Microbial Electrolysis Cell-Based Biohydrogen Production Utilizing Wastewater as a Feedstock. <i>Sustainability</i> , 2021, 13, 8796.	1.6	53
14	Enhancing the power generation in microbial fuel cells with effective utilization of goethite recovered from mining mud as anodic catalyst. <i>Bioresource Technology</i> , 2015, 191, 110-116.	4.8	51
15	Addressing scale-up challenges and enhancement in performance of hydrogen-producing microbial electrolysis cell through electrode modifications. <i>Energy Reports</i> , 2022, 8, 2726-2746.	2.5	49
16	Enhancing the performance of single-chambered microbial fuel cell using manganese/palladium and zirconium/palladium composite cathode catalysts. <i>Bioresource Technology</i> , 2017, 238, 568-574.	4.8	48
17	A Comprehensive Understanding of Electro-Fermentation. <i>Fermentation</i> , 2020, 6, 92.	1.4	48
18	Scalability of microbial electrochemical technologies: Applications and challenges. <i>Bioresource Technology</i> , 2022, 345, 126498.	4.8	46

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19	Cow's urine as a yellow gold for bioelectricity generation in low cost clayware microbial fuel cell. <i>Energy</i> , 2016, 113, 76-84.	4.5	42
20	Effective ammonium removal by anaerobic oxidation in microbial fuel cells. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 767-775.	1.2	41
21	Effective power management system in stacked microbial fuel cells for onsite applications. <i>Journal of Power Sources</i> , 2022, 517, 230684.	4.0	41
22	Recent advancement in scaling-up applications of microbial fuel cells: From reality to practicability. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101226.	1.7	40
23	Physico-chemical and biological treatment strategies for converting municipal wastewater and its residue to resources. <i>Chemosphere</i> , 2021, 282, 130881.	4.2	38
24	Blending of microbial inocula: An effective strategy for performance enhancement of clayware Biophotovoltaics microbial fuel cells. <i>Bioresource Technology</i> , 2021, 323, 124564.	4.8	37
25	Valorisation of CO ₂ into Value-Added Products via Microbial Electrosynthesis (MES) and Electro-Fermentation Technology. <i>Fermentation</i> , 2021, 7, 291.	1.4	35
26	Optimising the proportion of pure and mixed culture in inoculum to enhance the performance of microbial fuel cells. <i>International Journal of Environmental Technology and Management</i> , 2020, 23, 50.	0.1	31
27	Optimising the proportion of pure and mixed culture in inoculum to enhance the performance of microbial fuel cells. <i>International Journal of Environmental Technology and Management</i> , 2020, 23, 50.	0.1	23
28	Microbial Fuel Cell United with Other Existing Technologies for Enhanced Power Generation and Efficient Wastewater Treatment. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10777.	1.3	18
29	Fungal-mediated electrochemical system: Prospects, applications and challenges. <i>Current Research in Microbial Sciences</i> , 2021, 2, 100041.	1.4	12
30	Effectiveness of biophotovoltaics system modified with fuller-clay composite separators for chromium removal. <i>Electrochimica Acta</i> , 2022, 426, 140714.	2.6	12
31	Effect of membrane biofouling on the performance of microbial electrochemical cells and mitigation strategies. <i>Bioresource Technology Reports</i> , 2021, 15, 100822.	1.5	11
32	Impact of cathode biofouling in microbial fuel cells and mitigation techniques. <i>Biocatalysis and Agricultural Biotechnology</i> , 2022, 43, 102408.	1.5	10
33	Microbial Carbon Capture Cell: Advanced Bio-electrochemical System for Wastewater Treatment, Electricity Generation and Algal Biomass Production. , 2019, , 317-338.		9
34	Effectiveness of constructed wetland integrated with microbial fuel cell for domestic wastewater treatment and to facilitate power generation. <i>Environmental Science and Pollution Research</i> , 2022, 29, 51117-51129.	2.7	9
35	Microbial Electrochemical Heavy Metal Removal: Fundamental to the Recent Development. , 2021, , 521-542.		8
36	Recent Progress Towards Scaling Up of MFCs. , 2018, , 443-457.		7

#	ARTICLE	IF	CITATIONS
37	Advanced microbial fuel cell for biosensor applications to detect quality parameters of pollutants. , 2021, , 125-139.		6
38	Enhancement in Cathodic Redox Reactions of Single-Chambered Microbial Fuel Cells with Castor Oil-Emitted Powder as Cathode Material. Materials, 2021, 14, 4454.	1.3	6
39	Contaminant Removal and Energy Recovery in Microbial Fuel Cells. , 2019, , 76-94.		5
40	Bioelectrochemical systems for removal and recovery of heavy metals. , 2021, , 185-203.		3
41	Microbial electrosynthesis: Carbon dioxide sequestration via bioelectrochemical system. , 2021, , 113-132.		2
42	Electrochemical Losses and Its Role in Power Generation of Microbial Fuel Cells. , 2020, , 81-118.		2
43	Potential of microbial fuel cells for wastewater treatment. , 2021, , 115-124.		1
44	Application Niche of Microbial Fuel Cell as a Bio-energy Source for Sustainable Development. , 2020, , 21-42.		1
45	Utilization of human waste and animal urine for energy and resource recovery in microbial electrochemical system. , 2022, , 419-435.		1
46	E-waste derived material for microbial electrolysis cell: A perspective on synchronized waste management and energy recovery. , 2021, , 141-151.		0
47	Utilization and Management of Waste Derived Material for Sustainable Energy Production: A mini review. , 0, , .		0