

Makarand Ghangrekar

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212
papers

5,946
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42
h-index

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218
ext. papers

7,398
ext. citations

5.1
avg. IF

6.89
L-index

#	Paper	IF	Citations
212	Performance of microbial fuel cell subjected to variation in pH, temperature, external load and substrate concentration. <i>Bioresource Technology</i> , 2009 , 100, 717-23	11	395
211	Performance of membrane-less microbial fuel cell treating wastewater and effect of electrode distance and area on electricity production. <i>Bioresource Technology</i> , 2007 , 98, 2879-85	11	255
210	Rice mill wastewater treatment in microbial fuel cells fabricated using proton exchange membrane and earthen pot at different pH. <i>Bioelectrochemistry</i> , 2010 , 79, 228-33	5.6	209
209	Characteristics of sludge developed under different loading conditions during UASB reactor start-up and granulation. <i>Water Research</i> , 2005 , 39, 1123-33	12.5	204
208	Performance evaluation of low cost microbial fuel cell fabricated using earthen pot with biotic and abiotic cathode. <i>Bioresource Technology</i> , 2010 , 101, 1183-9	11	186
207	Performance of microbial fuel cell in response to change in sludge loading rate at different anodic feed pH. <i>Bioresource Technology</i> , 2009 , 100, 5114-21	11	138
206	Graphene supported MnO_2 nanotubes as a cathode catalyst for improved power generation and wastewater treatment in single-chambered microbial fuel cells. <i>RSC Advances</i> , 2013 , 3, 7902	3.7	111
205	Enhancing performance of microbial fuel cell by using graphene supported V_2O_5 -nanorod catalytic cathode. <i>Electrochimica Acta</i> , 2017 , 228, 513-521	6.7	100
204	Application of electro-active biofilms. <i>Biofouling</i> , 2010 , 26, 57-71	3.3	100
203	Development of low cost ceramic separator using mineral cation exchanger to enhance performance of microbial fuel cells. <i>Electrochimica Acta</i> , 2015 , 166, 320-328	6.7	98
202	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	16.2	92
201	Graphene Oxide-Impregnated PVA/STA Composite Polymer Electrolyte Membrane Separator for Power Generation in a Single-Chambered Microbial Fuel Cell. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 11597-11606	3.9	83
200	Performance of an anion exchange membrane in association with cathodic parameters in a dual chamber microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 9383-9392	6.7	82
199	Comparison of oxygen and hypochlorite as cathodic electron acceptor in microbial fuel cells. <i>Bioresource Technology</i> , 2014 , 154, 330-5	11	76
198	Novel low cost proton exchange membrane made from sulphonated biochar for application in microbial fuel cells. <i>Materials Chemistry and Physics</i> , 2020 , 239, 122025	4.4	76
197	V_2O_5 microflower decorated cathode for enhancing power generation in air-cathode microbial fuel cell treating fish market wastewater. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 3638-3645	6.7	73
196	Nitric acid activation of graphite granules to increase the performance of the non-catalyzed oxygen reduction reaction (ORR) for MFC applications. <i>Electrochemistry Communications</i> , 2009 , 11, 1547-1549	5.1	73

195	Performance comparison of up-flow microbial fuel cells fabricated using proton exchange membrane and earthen cylinder. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 5681-5686	6.7	73
194	Performance of low cost scalable air-cathode microbial fuel cell made from clayware separator using multiple electrodes. <i>Bioresource Technology</i> , 2015 , 182, 373-377	11	70
193	Improving performance of microbial fuel cell with ultrasonication pre-treatment of mixed anaerobic inoculum sludge. <i>Bioresource Technology</i> , 2010 , 101, 562-7	11	69
192	A novel low cost polyvinyl alcohol-Nafion-borosilicate membrane separator for microbial fuel cell. <i>Materials Chemistry and Physics</i> , 2016 , 182, 86-93	4.4	68
191	Coronavirus disease 2019 (COVID-19) outbreak: some serious consequences with urban and rural water cycle. <i>Npj Clean Water</i> , 2020 , 3,	11.2	67
190	Bismuth doped TiO ₂ as an excellent photocathode catalyst to enhance the performance of microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 7501-7510	6.7	65
189	Improving performance of microbial fuel cell while controlling methanogenesis by Chaetoceros pretreatment of anodic inoculum. <i>Bioresource Technology</i> , 2015 , 180, 66-71	11	64
188	Required minimum granule size in UASB reactor and characteristics variation with size. <i>Bioresource Technology</i> , 2007 , 98, 994-9	11	64
187	Analysis, evaluation, and optimization of kinetic parameters for performance appraisal and design of UASB reactors. <i>Bioresource Technology</i> , 2008 , 99, 2132-40	11	61
186	Modification of carbon felt anode with graphene oxide-zeolite composite for enhancing the performance of microbial fuel cell. <i>Sustainable Energy Technologies and Assessments</i> , 2018 , 26, 77-82	4.7	56
185	Biofouling inhibition and enhancing performance of microbial fuel cell using silver nano-particles as fungicide and cathode catalyst. <i>Bioresource Technology</i> , 2016 , 220, 183-189	11	51
184	Quorum-sensing mediated signals: A promising multi-functional modulators for separately enhancing algal yield and power generation in microbial fuel cell. <i>Bioresource Technology</i> , 2019 , 294, 122138	11	49
183	Waste-derived biochar: Applications and future perspective in microbial fuel cells. <i>Bioresource Technology</i> , 2020 , 312, 123587	11	49
182	Simultaneous organic matter removal and disinfection of wastewater with enhanced power generation in microbial fuel cell. <i>Bioresource Technology</i> , 2014 , 163, 328-34	11	49
181	Moving towards practical applications of microbial fuel cells for sanitation and resource recovery. <i>Journal of Water Process Engineering</i> , 2020 , 38, 101566	6.7	47
180	Enhancing organic matter removal, biopolymer recovery and electricity generation from distillery wastewater by combining fungal fermentation and microbial fuel cell. <i>Bioresource Technology</i> , 2015 , 176, 8-14	11	46
179	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	17.8	46
178	A novel proton exchange membrane developed from clay and activated carbon derived from coconut shell for application in microbial fuel cell. <i>Biochemical Engineering Journal</i> , 2019 , 148, 170-177	4.2	45

177	Enhancing Electrogenesis by Pretreatment of Mixed Anaerobic Sludge To Be Used as Inoculum in Microbial Fuel Cells. <i>Energy & Fuels</i> , 2015 , 29, 3518-3524	4.1	45
176	Carbon supported nickel-phthalocyanine/MnOx as novel cathode catalyst for microbial fuel cell application. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 23085-23094	6.7	45
175	Effect of operating temperature on performance of microbial fuel cell. <i>Water Science and Technology</i> , 2011 , 64, 917-22	2.2	45
174	Improved performance of microbial fuel cell by using conductive ink printed cathode containing Co ₃ O ₄ or Fe ₃ O ₄ . <i>Electrochimica Acta</i> , 2019 , 310, 173-183	6.7	44
173	Synthesis of bimetallic iron ferrite Co _{0.5} Zn _{0.5} Fe ₂ O ₄ as a superior catalyst for oxygen reduction reaction to replace noble metal catalysts in microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 19196-19205	6.7	44
172	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	11	43
171	Novel multi walled carbon nanotube based nitrogen impregnated Co and Fe cathode catalysts for improved microbial fuel cell performance. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 23027-23035	6.7	43
170	Goethite supplemented natural clay ceramic as an alternative proton exchange membrane and its application in microbial fuel cell. <i>Ionics</i> , 2020 , 26, 3061-3072	2.7	42
169	Effect of operating parameters on the performance of sediment microbial fuel cell treating aquaculture water. <i>Aquacultural Engineering</i> , 2014 , 61, 17-26	3	42
168	Enhancement of bioelectricity generation and algal productivity in microbial carbon-capture cell using low cost coconut shell as membrane separator. <i>Biochemical Engineering Journal</i> , 2018 , 133, 205-213	4.2	41
167	Application of bimetallic low-cost CuZn as oxygen reduction cathode catalyst in lab-scale and field-scale microbial fuel cell. <i>Chemical Physics Letters</i> , 2020 , 751, 137536	2.5	40
166	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	2.5	39
165	ANAMMOX-denitrification biomass in microbial fuel cell to enhance the electricity generation and nitrogen removal efficiency. <i>Biodegradation</i> , 2020 , 31, 249-264	4.1	38
164	Application of bioelectrochemical systems for carbon dioxide sequestration and concomitant valuable recovery: A review. <i>Materials Science for Energy Technologies</i> , 2019 , 2, 687-696	5.2	37
163	Carbon Supported Cu-Sn Bimetallic Alloy as an Excellent Low-Cost Cathode Catalyst for Enhancing Oxygen Reduction Reaction in Microbial Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F6214-F6218	3.9	37
162	Application of sediment microbial fuel cell for in situ reclamation of aquaculture pond water quality. <i>Aquacultural Engineering</i> , 2013 , 57, 101-107	3	37
161	Improving performance of MFC by design alteration and adding cathodic electrolytes. <i>Applied Biochemistry and Biotechnology</i> , 2008 , 151, 319-32	3.2	37
160	Architectural adaptations of microbial fuel cells. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 9419-9432	3.7	37

159	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, 110-6	11	36
158	Using rhodium as a cathode catalyst for enhancing performance of microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 22218-22222	6.7	36
157	Simultaneous sewage treatment and electricity generation in membrane-less microbial fuel cell. <i>Water Science and Technology</i> , 2008 , 58, 37-43	2.2	36
156	Enhancing the performance of microbial fuel cell using Ag Pt bimetallic alloy as cathode catalyst and anti-biofouling agent. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 19650-19660	6.7	36
155	Novel Sulfonated Co-poly(ether imide)s Containing Trifluoromethyl, Fluorenyl and Hydroxyl Groups for Enhanced Proton Exchange Membrane Properties: Application in Microbial Fuel Cell. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14803-14817	9.5	35
154	Bioelectrochemically powered remediation of xenobiotic compounds and heavy metal toxicity using microbial fuel cell and microbial electrolysis cell. <i>Materials Science for Energy Technologies</i> , 2020 , 3, 104-115	5.2	35
153	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	11	34
152	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	3.2	33
151	On-Site Sanitary Wastewater Treatment System Using 720-L Stacked Microbial Fuel Cell: Case Study. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2020 , 24, 04020025	2.3	33
150	Production of Hydrogen Peroxide Using Various Metal-Based Catalysts in Electrochemical and Bioelectrochemical Systems: Mini Review. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2020 , 24, 06020001	2.3	33
149	Controlling methanogenesis and improving power production of microbial fuel cell by lauric acid dosing. <i>Water Science and Technology</i> , 2014 , 70, 1363-9	2.2	31
148	Electricity generation through a photo sediment microbial fuel cell using algae at the cathode. <i>Water Science and Technology</i> , 2017 , 76, 3269-3277	2.2	30
147	A live bio-cathode to enhance power output steered by bacteria-microalgae synergistic metabolism in microbial fuel cell. <i>Journal of Power Sources</i> , 2020 , 449, 227560	8.9	30
146	Effective ammonium removal by anaerobic oxidation in microbial fuel cells. <i>Environmental Technology (United Kingdom)</i> , 2015 , 36, 767-75	2.6	29
145	Increasing methane content in biogas and simultaneous value added product recovery using microbial electrosynthesis. <i>Water Science and Technology</i> , 2018 , 77, 1293-1302	2.2	29
144	Cow's urine as a yellow gold for bioelectricity generation in low cost clayware microbial fuel cell. <i>Energy</i> , 2016 , 113, 76-84	7.9	29
143	Influence of ceramic separator characteristics on microbial fuel cell performance. <i>Journal of Electrochemical Science and Engineering</i> , 2014 , 4,	1.9	29
142	Review Microbial Electrosynthesis: A Way Towards The Production of Electro-Commodities Through Carbon Sequestration with Microbes as Biocatalysts. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 155510	3.9	29

141	Multi-walled carbon nanotube and carbide-derived carbon supported metal phthalocyanines as cathode catalysts for microbial fuel cell applications. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 3525-3537	5.8	29
140	A green and sustainable approach on statistical optimization of laccase mediated delignification of sugarcane tops for enhanced saccharification. <i>Journal of Environmental Management</i> , 2018 , 217, 700-709	7.9	28
139	Performance Evaluation of Microbial Fuel Cell Operated with Pd or MnO ₂ as Cathode Catalyst and Chaetoceros Pretreated Anodic Inoculum. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2020 , 24, 04020009	2.3	27
138	Ameliorated performance of a microbial fuel cell operated with an alkali pre-treated clayware ceramic membrane. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 16787-16798	6.7	26
137	Synthesis and Application of Zirconium Metal-Organic Framework in Microbial Fuel Cells as a Cost-Effective Oxygen Reduction Catalyst with Competitive Performance. <i>ACS Applied Energy Materials</i> , 2020 , 3, 3512-3520	6.1	26
136	Design of clayware separator-electrode assembly for treatment of wastewater in microbial fuel cells. <i>Applied Biochemistry and Biotechnology</i> , 2014 , 173, 378-90	3.2	25
135	SiOC-based polymer derived-ceramic porous anodes for microbial fuel cells. <i>Biochemical Engineering Journal</i> , 2019 , 148, 29-36	4.2	24
134	Improved Wastewater Treatment by Combined System of Microbial Fuel Cell with Activated Carbon/TiO ₂ Cathode Catalyst and Membrane Bioreactor. <i>Journal of the Institution of Engineers (India): Series A</i> , 2019 , 100, 675-682	1	24
133	Tungsten oxide as electrocatalyst for improved power generation and wastewater treatment in microbial fuel cell. <i>Environmental Technology (United Kingdom)</i> , 2020 , 41, 2546-2553	2.6	24
132	Synthesis of Tungstate Oxide/Bismuth Tungstate Composite and Application in Microbial Fuel Cell as Superior Low-Cost Cathode Catalyst than Platinum. <i>Journal of the Electrochemical Society</i> , 2018 , 165, G146-G153	3.9	24
131	Pre-treatment of anodic inoculum with nitroethane to improve performance of a microbial fuel cell. <i>Water Science and Technology</i> , 2018 , 77, 2491-2496	2.2	23
130	Start-Up of Anammox SBR from Non-Specific Inoculum and Process Acceleration Methods by Hydrazine. <i>Water (Switzerland)</i> , 2021 , 13, 350	3	23
129	Novel application of peptaibiotics derived from <i>Trichoderma</i> sp. for methanogenic suppression and enhanced power generation in microbial fuel cells. <i>RSC Advances</i> , 2017 , 7, 10707-10717	3.7	22
128	Preparation of a fouling-resistant sustainable cathode for a single-chambered microbial fuel cell. <i>Water Science and Technology</i> , 2014 , 69, 634-9	2.2	22
127	Azadirachta indica 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	5.8	21
126	Optimal cathodic imposed potential and appropriate catalyst for the synthesis of hydrogen peroxide in microbial electrolysis cell. <i>Chemical Physics Letters</i> , 2020 , 754, 137690	2.5	21
125	Reduction of start-up time through bioaugmentation process in microbial fuel cells using an isolate from dark fermentative spent media fed anode. <i>Water Science and Technology</i> , 2015 , 72, 106-15	2.2	20
124	Role of applied potential on microbial electrosynthesis of organic compounds through carbon dioxide sequestration. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104028	6.8	19

123	Application of Low-Cost Cu ₂ N Bimetal Alloy as Oxygen Reduction Reaction Catalyst for Improving Performance of the Microbial Fuel Cell. <i>MRS Advances</i> , 2018 , 3, 663-668	0.7	19
122	Comprehensive review on treatment of high-strength distillery wastewater in advanced physico-chemical and biological degradation pathways. <i>International Journal of Environmental Science and Technology</i> , 2019 , 16, 527-546	3.3	19
121	Utilisation of waste medicine wrappers as an efficient low-cost electrode material for microbial fuel cell. <i>Environmental Technology (United Kingdom)</i> , 2020 , 41, 1209-1218	2.6	19
120	Technical, hygiene, economic, and life cycle assessment of full-scale moving bed biofilm reactors for wastewater treatment in India. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 2552-2569	5.1	19
119	In Situ Bioremediation Using Sediment Microbial Fuel Cell. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2017 , 21, 04016022	2.3	18
118	Biotic conversion of sulphate to sulphide and abiotic conversion of sulphide to sulphur in a microbial fuel cell using cobalt oxide octahedrons as cathode catalyst. <i>Bioprocess and Biosystems Engineering</i> , 2017 , 40, 759-768	3.7	17
117	TiO ₂ /Activated carbon photo cathode catalyst exposed to ultraviolet radiation to enhance the efficacy of integrated microbial fuel cell-membrane bioreactor. <i>Bioresource Technology Reports</i> , 2019 , 7, 100303	4.1	17
116	Novel low-cost activated algal biochar as a cathode catalyst for improving performance of microbial fuel cell. <i>Sustainable Energy Technologies and Assessments</i> , 2020 , 42, 100808	4.7	16
115	Application of TiO ₂ and Rh as cathode catalyst to boost the microbial electrosynthesis of organic compounds through CO ₂ sequestration. <i>Process Biochemistry</i> , 2021 , 101, 237-246	4.8	16
114	Microbial fuel cell performance of graphitic carbon functionalized porous polysiloxane based ceramic membranes. <i>Bioelectrochemistry</i> , 2019 , 129, 259-269	5.6	15
113	Chemically Stable Sulfonated Polytriazoles Containing Trifluoromethyl and Phosphine Oxide Moieties for Proton Exchange Membranes. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 2967-2979	4.3	15
112	New crosslinked sulfonated polytriazoles: Proton exchange properties and microbial fuel cell performance. <i>European Polymer Journal</i> , 2018 , 103, 322-334	5.2	15
111	Multi-chamber microbial desalination cell for improved organic matter and dissolved solids removal from wastewater. <i>Water Science and Technology</i> , 2014 , 70, 1948-54	2.2	15
110	Performance improvement of sediment microbial fuel cell by enriching the sediment with cellulose: Kinetics of cellulose degradation. <i>Environmental Technology and Innovation</i> , 2019 , 13, 189-196	7	15
109	Low efficiency of sewage treatment plants due to unskilled operations in India. <i>Environmental Chemistry Letters</i> , 2016 , 14, 407-416	13.3	14
108	Effect of pH and distance between electrodes on the performance of a sediment microbial fuel cell. <i>Water Science and Technology</i> , 2013 , 68, 537-43	2.2	14
107	Organic matter and nitrogen removal in a hybrid upflow anaerobic sludge blanket Moving bed biofilm and rope bed biofilm reactor. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 3240-3245	6.8	14
106	Improving Performance of Microbial Fuel Cell by Using Polyaniline-Coated Carbon Belt Anode. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2020 , 24, 04020024	2.3	13

105	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	0.6	13
104	Preparation of Activated Carbon from the Wood of <i>Paulownia tomentosa</i> as an Efficient Adsorbent for the Removal of Acid Red 4 and Methylene Blue Present in Wastewater. <i>Water (Switzerland)</i> , 2021 , 13, 1453	3	13
103	Optimization of saccharification of enzymatically pretreated sugarcane tops by response surface methodology for ethanol production. <i>Biofuels</i> , 2019 , 10, 73-80	2	13
102	A Systematic Review on Bioelectrochemical Systems Research. <i>Current Pollution Reports</i> , 2017 , 3, 281-288	6	12
101	Simultaneous Removal of Phenol and Dissolved Solids from Wastewater Using Multichambered Microbial Desalination Cell. <i>Applied Biochemistry and Biotechnology</i> , 2015 , 177, 1638-53	3.2	12
100	Optimization of Operating Conditions for Maximizing Power Generation and Organic Matter Removal in Microbial Fuel Cell. <i>Journal of Environmental Engineering, ASCE</i> , 2017 , 143, 04016090	2	12
99	Graphene Oxide/Polytetrafluoroethylene Composite Anode and <i>Chaetoceros</i> pre-Treated Anodic Inoculum Enhancing Performance of Microbial Fuel Cell. <i>Journal of Clean Energy Technologies</i> , 2018 , 6, 236-241	0.2	12
98	EFFECT OF SULFATE CONCENTRATION IN THE WASTEWATER ON MICROBIAL FUEL CELL PERFORMANCE. <i>Environmental Engineering and Management Journal</i> , 2010 , 9, 1227-1234	0.6	12
97	Ameliorating effect of nitrate on nitrite inhibition for denitrifying P-accumulating organisms. <i>Science of the Total Environment</i> , 2021 , 797, 149133	10.2	12
96	The COVID-19 pandemic: biological evolution, treatment options and consequences. <i>Innovative Infrastructure Solutions</i> , 2020 , 5, 1	2.3	11
95	Tailoring hydrophilic and porous nature of polysiloxane derived ceramer and ceramic membranes for enhanced bioelectricity generation in microbial fuel cell. <i>Ionics</i> , 2019 , 25, 5907-5918	2.7	11
94	Application of synthesized porous graphitic carbon nitride and it's composite as excellent electrocatalysts in microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 31056-31069	6.7	11
93	Nitrogen and Sulfur Codoped Graphene Macroassemblies as High-Performance Electrocatalysts for the Oxygen Reduction Reaction in Microbial Fuel Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 16591-16599	8.3	11
92	Biodegradation kinetics of thin-stillage treatment by <i>Aspergillus awamori</i> and characterization of recovered chitosan. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 1955-1965	5.7	11
91	Enhanced Power Generation in Microbial Fuel Cell Using MnO ₂ -Catalyzed Cathode Treating Fish Market Wastewater. <i>Springer Proceedings in Energy</i> , 2016 , 285-294	0.2	11
90	Application of silver-tin dioxide composite cathode catalyst for enhancing performance of microbial desalination cell. <i>Materials Science for Energy Technologies</i> , 2018 , 1, 188-195	5.2	11
89	Application of Low-Cost Transition Metal Based Co _{0.5} Zn _{0.5} Fe ₂ O ₄ as Oxygen Reduction Reaction Catalyst for Improving Performance of Microbial Fuel Cell. <i>MRS Advances</i> , 2018 , 3, 3171-3179	0.7	11
88	Bacterial signalling mechanism: An innovative microbial intervention with multifaceted applications in microbial electrochemical technologies: A review. <i>Bioresource Technology</i> , 2022 , 344, 126218	11	10

87	Improving performance of microbial fuel cell by enhanced bacterial-anode interaction using sludge immobilized beads with activated carbon. <i>Chemical Engineering Research and Design</i> , 2020 , 143, 285-292	5.5	10
86	Methanogenesis inhibitors used in bio-electrochemical systems: A review revealing reality to decide future direction and applications. <i>Bioresource Technology</i> , 2021 , 319, 124141	11	10
85	A review on environmental occurrence, toxicity and microbial degradation of Non-Steroidal Anti-Inflammatory Drugs (NSAIDs). <i>Journal of Environmental Management</i> , 2021 , 300, 113694	7.9	10
84	Concomitant production of bioelectricity and hydrogen peroxide leading to the holistic treatment of wastewater in microbial fuel cell. <i>Chemical Physics Letters</i> , 2020 , 759, 137986	2.5	9
83	Removal of sodium dodecyl sulphate from wastewater and its effect on anodic biofilm and performance of microbial fuel cell. <i>International Biodeterioration and Biodegradation</i> , 2021 , 156, 105108	4.8	9
82	Surfactant removal from wastewater using photo-cathode microbial fuel cell and laterite-based hybrid treatment system. <i>Bioprocess and Biosystems Engineering</i> , 2020 , 43, 2075-2084	3.7	8
81	Electricity Production during Distillery Wastewater Treatment in a Microbial Fuel Cell Equipped with Low Cost PVA-Nafion-Borosilicate Membrane. <i>Journal of Clean Energy Technologies</i> , 2018 , 6, 155-158	6.2	8
80	Plant secondary metabolites induced electron flux in microbial fuel cell: investigation from laboratory-to-field scale. <i>Scientific Reports</i> , 2020 , 10, 17185	4.9	8
79	Palladium-Supported Zirconia-Based Catalytic Degradation of Rhodamine-B Dye from Wastewater. <i>Water (Switzerland)</i> , 2021 , 13, 1522	3	8
78	Maximum anode chamber volume and minimum anode area for supporting electrogenesis in microbial fuel cells treating wastewater. <i>Journal of Renewable and Sustainable Energy</i> , 2016 , 8, 044302	2.5	8
77	A novel bio-electro-Fenton process for eliminating sodium dodecyl sulphate from wastewater using dual chamber microbial fuel cell. <i>Bioresource Technology</i> , 2021 , 341, 125850	11	8
76	Trifluoromethyl and benzyl ether side groups containing novel sulfonated co-poly(ether imide)s: Application in microbial fuel cell. <i>European Polymer Journal</i> , 2019 , 118, 451-464	5.2	7
75	Screening anodic inoculums for microbial fuel cells by quantifying bioelectrogenic activity using tungsten trioxide quantum rods. <i>Bioresource Technology</i> , 2018 , 252, 66-71	11	7
74	Bioelectrogenesis Detection of Inoculums Using Electrochromic Tungsten Oxide and Performance Evaluation in Microbial Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2016 , 163, F183-F189	3.9	7
73	Optimizing performance of a microbial carbon-capture cell using Box-Behnken design. <i>Process Biochemistry</i> , 2020 , 95, 99-107	4.8	7
72	Metal organic frameworks as emergent oxygen-reducing cathode catalysts for microbial fuel cells: a review. <i>International Journal of Environmental Science and Technology</i> , 1	3.3	7
71	Proclaiming Electrochemical Oxidation as a Potent Technology for the Treatment of Wastewater Containing Xenobiotic Compounds: A Mini Review. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2021 , 25,	2.3	7
70	Effect of Using a Ceramic Separator on the Performance of Hydroponic Constructed Wetland-Microbial Fuel Cell. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2020 , 24, 04020005	2.3	6

69	Enhancing performance of microbial fuel cell treating distillery wastewater using carbon supported Nickel-phthalocyanine/MnOx as novel cathode catalyst. <i>MRS Advances</i> , 2018 , 3, 657-662	0.7	6
68	A BRIEF REVIEW ON RECENT ADVANCES IN AIR-CATHODE MICROBIAL FUEL CELLS. <i>Environmental Engineering and Management Journal</i> , 2018 , 17, 1531-1544	0.6	6
67	Improved Performance of Microbial Fuel Cell by In Situ Methanogenesis Suppression While Treating Fish Market Wastewater. <i>Applied Biochemistry and Biotechnology</i> , 2020 , 192, 1060-1075	3.2	6
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65	Evaluating the suitability of tungsten, titanium and stainless steel wires as current collectors in microbial fuel cells. <i>Water Science and Technology</i> , 2018 , 77, 999-1006	2.2	6
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