

Makarand Ghangrekar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

212
papers

5,946
citations

42
h-index

68
g-index

218
ext. papers

7,398
ext. citations

5.1
avg. IF

6.89
L-index

#	Paper	IF	Citations
212	Efficacious bioremediation of heavy metals and radionuclides from wastewater employing aquatic macro- and microphytes.. <i>Journal of Basic Microbiology</i> , 2022 ,	2.7	4
211	Integration of Bio-electrochemical Systems with Anaerobic Digestion. <i>Applied Environmental Science and Engineering for A Sustainable Future</i> , 2022 , 295-318	0.5	
210	Appraising efficacy of existing and advanced technologies for the remediation of beta-blockers from wastewater: A review.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	2
209	Microbial electrochemical technologies for wastewater treatment: insight into theory and reality 2022 , 179-200		
208	Microbial fuel cells Challenges for commercialization and how they can be addressed 2022 , 393-418		0
207	Concomitant bioenergy production and wastewater treatment employing microbial electrochemical technologies 2022 , 359-385		0
206	Optimum dose of Chaetoceros for controlling methanogenesis to improve power production of microbial fuel cell.. <i>Water Science and Technology</i> , 2022 , 85, 257-264	2.2	0
205	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
204	Biofuel cell: existing formats, production level, constraints, and potential uses 2022 , 531-550		0
203	Integration of wastewater treatment with algal cultivation for the production of biofuel and bioenergy 2022 , 289-312		
202	Development of Low-Cost Microbial Fuel Cell for Converting Waste to Electricity and Abating Pollution 2022 , 167-198		
201	An integrated biorefinery approach for bioethanol production from sugarcane tops. <i>Journal of Cleaner Production</i> , 2022 , 352, 131451	10.3	2
200	Waste-derived iron catalyzed bio-electro-Fenton process for the cathodic degradation of surfactants.. <i>Environmental Research</i> , 2022 , 212, 113141	7.9	0
199	Advanced oxidation processes: Performance, advantages, and scale-up of emerging technologies. <i>Journal of Environmental Management</i> , 2022 , 316, 115295	7.9	5
198	Live diatoms as potential biocatalyst in a microbial fuel cell for harvesting continuous diafuel, carotenoids and bioelectricity. <i>Chemosphere</i> , 2021 , 132841	8.4	5
197	Improved Wastewater Treatment by Using Integrated Microbial Fuel Cell-Membrane Bioreactor System Along with Ruthenium/activated Carbon Cathode Catalyst to Enhance Bio-energy Recovery. <i>Water Science and Technology Library</i> , 2021 , 183-192	0.3	1
196	Two-phase anaerobic digestion of food waste: Effect of semi-continuous feeding on acidogenesis and methane production. <i>Bioresource Technology</i> , 2021 , 346, 126396	11	3

195	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> , 2021 , 1	5.1	0
194	High-Density Polyethylene Waste-Derived Carbon as a Low-Cost Cathode Catalyst in Microbial Fuel Cell. <i>International Journal of Environmental Research</i> , 2021 , 15, 1085-1096	2.9	1
193	Preparation of PdNi Nanoparticles Supported on Activated Carbon for Efficient Removal of Basic Blue 3 from Water. <i>Water (Switzerland)</i> , 2021 , 13, 1211	3	4
192	Preparation of Activated Carbon from the Wood of Paulownia tomentosa 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
191	Palladium-Supported Zirconia-Based Catalytic Degradation of Rhodamine-B Dye from Wastewater. <i>Water (Switzerland)</i> , 2021 , 13, 1522	3	8
190	Proficient Sanitary Wastewater Treatment in Laboratory and Field-Scale Microbial Fuel Cell with Anti-Biofouling Cu _{0.5} Mn _{0.5} Fe ₂ O ₄ as Cathode Catalyst. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 054519	3.9	6
189	Wastewater Treatment and Concomitant Bioelectricity Production Using Microbial Fuel Cell: Present Aspects, Up-Scaling and Future Inventiveness 2021 , 6, 633-651		1
188	Preparation of Sulfonated Polytriazoles with a Phosphaphenanthrene Unit via Click Polymerization: Fabrication of Membranes and Properties Thereof. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 4127-4138	4.3	3
187	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
186	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
185	Application of novel modular reactor for microbial electrosynthesis employing imposed potential with concomitant separation of acetic acid. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 43, 100902	4.7	2
184	Enhancing the Performance of Microbial Fuel Cell by Using Chloroform Pre-treated Mixed Anaerobic Sludge to Control Methanogenesis in Anodic Chamber. <i>Applied Biochemistry and Biotechnology</i> , 2021 , 193, 846-855	3.2	2
183	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
182	Bismuth-Impregnated Ruthenium with Activated Carbon as Photocathode Catalyst to Proliferate the Efficacy of a Microbial Fuel Cell. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2021 , 25, 04020066	2.3	2
181	Bioelectrochemical Systems for Fuel Production: A Techno-Economic Analysis 2021 , 379-412		
180	Microbial Electrochemical Technologies for CO ₂ Sequestration 2021 , 413-443		1
179	Bioenergy and Valuables Recovery During Wastewater Treatment Using Bio-Electrochemical Systems 2021 , 259-259		
178	Start-Up of Anammox SBR from Non-Specific Inoculum and Process Acceleration Methods by Hydrazine. <i>Water (Switzerland)</i> , 2021 , 13, 350	3	23

177	Performance comparison between batch and continuous mode of operation of microbial electrosynthesis for the production of organic chemicals. <i>Journal of Applied Electrochemistry</i> , 2021 , 51, 715-725	2.6	3
176	Biological and Microbial Fuel Cells 2021 ,		
175	Integrating microbial electrochemical technologies for methane-to-bioelectricity and water-splitting to impart self-sustainability to wastewater treatment plants. <i>Bioresource Technology Reports</i> , 2021 , 13, 100644	4.1	2
174	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
173	Testing of Chemically Activated Cellulose Fibers as Adsorbents for Treatment of Arsenic Contaminated Water. <i>Materials</i> , 2021 , 14,	3.5	1
172	Application of microbial electrochemical technologies for the treatment of petrochemical wastewater with concomitant valuable recovery: A review. <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	6
171	Seasonal characterization of municipal solid waste for selecting feasible waste treatment technology for Guwahati city, India. <i>Journal of the Air and Waste Management Association</i> , 2021 , 1-14	2.4	0
170	Investigating the efficacy of CeO ₂ multi-layered triangular nanosheets for augmenting cathodic hydrogen peroxide production in microbial fuel cell. <i>Electrochimica Acta</i> , 2021 , 398, 139341	6.7	3
169	Role of bioelectrochemical systems for the remediation of emerging contaminants from wastewater: A review. <i>Journal of Basic Microbiology</i> , 2021 ,	2.7	4
168	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
167	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
166	Removal of caffeine from wastewater using electrochemical advanced oxidation process: A mini review. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021 , 4, 100129	7.5	3
165	High throughput techniques for the rapid identification of electroactive microorganisms. <i>Chemosphere</i> , 2021 , 285, 131489	8.4	2
164	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
163	Microbial fuel cell coupled Fenton oxidation for the cathodic degradation of emerging contaminants from wastewater: Applications and challenges. <i>Environmental Research</i> , 2021 , 204, 112135	7.9	6
162	Improving Performance of Microbial Fuel Cell by Using Polyaniline-Coated Carbonfelt Anode. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2020 , 24, 04020024	2.3	13
161	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
160	In situ bioremediation techniques for the removal of emerging contaminants and heavy metals using hybrid microbial electrochemical technologies 2020 , 233-255		3

159	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
158	Waste-derived biochar: Applications and future perspective in microbial fuel cells. <i>Bioresource Technology</i> , 2020 , 312, 123587	11	49
157	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
156	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
155	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
154	Sulfonated co-poly(ether imide)s with alkyne groups: Fabrication of crosslinked membranes and studies on PEM properties including MFC performance. <i>Polymer Engineering and Science</i> , 2020 , 60, 2097-2110	2.3	2
153	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
152	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
151	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
150	The COVID-19 pandemic: biological evolution, treatment options and consequences. <i>Innovative Infrastructure Solutions</i> , 2020 , 5, 1	2.3	11
149	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
148	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
147	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
146	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
145	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
144	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
143	Integration of bioelectrochemical systems with other existing wastewater treatment processes 2020 , 229-248		5
142	Bioelectrochemical System for Bioremediation and Energy Generation 2020 , 365-391		

141	An overview of membrane bioreactor coupled bioelectrochemical systems 2020 , 249-272		1
140	Optimizing performance of a microbial carbon-capture cell using Box-Behnken design. <i>Process Biochemistry</i> , 2020 , 95, 99-107	4.8	7
139	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
138	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
137	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
136	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
135	Anodic inoculum pre-treatment by extracts of <i>Azadirachta indica</i> leaves and <i>Allium sativum</i> peels for improved bioelectricity recovery from microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 23391-23400	6.7	3
134	Application of synthesized porous graphitic carbon nitride and its composite as excellent electrocatalysts in microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 31056-31069	6.7	11
133	A novel tin-chloride-zirconium oxide-kaolin composite coated carbon felt anode for electro-oxidation of surfactant from municipal wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104489	6.8	4
132	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
131	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
130	TiO ₂ -Si- or SrTiO ₃ -Si-impregnated PVABased low-cost proton exchange membranes for application in microbial fuel cell. <i>Ionics</i> , 2020 , 26, 6195-6205	2.7	3
129	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
128	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
127	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
126	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
125	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
124	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

123	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
122	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
121	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
120	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
119	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
118	Microbial Carbon Capture Cell: Advanced Bio-electrochemical System for Wastewater Treatment, Electricity Generation and Algal Biomass Production 2019 , 317-338		2
117	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
116	Microbial fuel cell performance of graphitic carbon functionalized porous polysiloxane based ceramic membranes. <i>Bioelectrochemistry</i> , 2019 , 129, 259-269	5.6	15
115	Improved performance of microbial fuel cell by using conductive ink printed cathode containing Co3O4 or Fe3O4. <i>Electrochimica Acta</i> , 2019 , 310, 173-183	6.7	44
114	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
113	SiOC-based polymer derived-ceramic porous anodes for microbial fuel cells. <i>Biochemical Engineering Journal</i> , 2019 , 148, 29-36	4.2	24
112	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
111	Application of ion exchange membranes in enhancing algal production alongside desalination of saline water in microbial fuel cell. <i>MRS Advances</i> , 2019 , 4, 1077-1085	0.7	5
110	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
109	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
108	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
107	TiO2/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
106	Improved Wastewater Treatment by Combined System of Microbial Fuel Cell with Activated Carbon/TiO2 Cathode Catalyst and Membrane Bioreactor. <i>Journal of the Institution of Engineers (India): Series A</i> , 2019 , 100, 675-682	1	24

105	Contaminant Removal and Energy Recovery in Microbial Fuel Cells 2019 , 76-94		2
104	Yeast and Algae as Biocatalysts in Microbial Fuel Cell 2019 , 141-168		1
103	Effect of Cathodic Electron Acceptors on the Performance of Microbial Desalination Cell 2019 , 305-315		0
102	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
101	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
100	Optimization of saccharification of enzymatically pretreated sugarcane tops by response surface methodology for ethanol production. <i>Biofuels</i> , 2019 , 10, 73-80	2	13
99	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
98	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
97	Application of Low-Cost CuSn 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
96	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
95	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
94	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
93	New crosslinked sulfonated polytriazoles: Proton exchange properties and microbial fuel cell performance. <i>European Polymer Journal</i> , 2018 , 103, 322-334	5.2	15
92	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
91	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
90	Sludge granulation in an UASB-moving bed biofilm hybrid reactor for efficient organic matter removal and nitrogen removal in biofilm reactor. <i>Environmental Technology (United Kingdom)</i> , 2018 , 39, 298-307	2.6	4
89	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
88	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

87	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, F621-F628	3.9	37
86	Low-Cost Solutions for Fabrication of Microbial Fuel Cells: Ceramic Separator and Electrode Modifications 2018 , 95-124		3
85	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	0.2	8
84	Graphene Oxide/Polytetrafluoroethylene Composite Anode and Chaetoceros pre-Treated Anodic Inoculum Enhancing Performance of Microbial Fuel Cell. <i>Journal of Clean Energy Technologies</i> , 2018 , 6, 236-241	0.2	12
83	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
82	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
81	Sediment Microbial Fuel Cell and Constructed Wetland Assisted with It: Challenges and Future Prospects 2018 , 335-352		2
80	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
79	New Trends in Monitoring and Removing the Pollutants from Water. <i>Journal of Chemistry</i> , 2018 , 2018, 1-2	2.3	3
78	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
77	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
76	Architectural adaptations of microbial fuel cells. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 9419-9432	3.7	37
75	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
74	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
73	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
72	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
71	Enhancing performance of microbial fuel cell by using graphene supported V ₂ O ₅ -nanorod catalytic cathode. <i>Electrochimica Acta</i> , 2017 , 228, 513-521	6.7	100
70	Novel application of peptaibiotics derived from Trichoderma sp. for methanogenic suppression and enhanced power generation in microbial fuel cells. <i>RSC Advances</i> , 2017 , 7, 10707-10717	3.7	22

69	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
68	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
67	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
66	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
65	A Systematic Review on Bioelectrochemical Systems Research. <i>Current Pollution Reports</i> , 2017 , 3, 281-288	6	12
64	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
63	Biogas Production from Partially Digested Septic Tank Sludge and its Kinetics. <i>Waste and Biomass Valorization</i> , 2017 , 10, 387	3.2	3
62	Biomass granulation in an upflow anaerobic sludge blanket reactor treating 500 m ³ /day low-strength sewage and post treatment in high-rate algal pond. <i>Water Science and Technology</i> , 2017 , 76, 1234-1242	2.2	3
61	Carbon supported nickel-phthalocyanine/MnO _x as novel cathode catalyst for microbial fuel cell application. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 23085-23094	6.7	45
60	Fouling resistant nitrogen doped carbon powder with amino-tri-methylene-phosphate cathode for microbial fuel cell. <i>Materials for Renewable and Sustainable Energy</i> , 2017 , 6, 1	4.7	2
59	In Situ Bioremediation Using Sediment Microbial Fuel Cell. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2017 , 21, 04016022	2.3	18
58	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
57	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
56	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
55	V2O5 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
54	Low efficiency of sewage treatment plants due to unskilled operations in India. <i>Environmental Chemistry Letters</i> , 2016 , 14, 407-416	13.3	14
53	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
52	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

51	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
50	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
49	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
48	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
47	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
46	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
45	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
44	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
43	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
42	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
41	Effective ammonium removal by anaerobic oxidation in microbial fuel cells. <i>Environmental Technology (United Kingdom)</i> , 2015 , 36, 767-75	2.6	29
40	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
39	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
38	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	11	64
37	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
36	Comparison of oxygen and hypochlorite as cathodic electron acceptor in microbial fuel cells. <i>Bioresource Technology</i> , 2014 , 154, 330-5	11	76
35	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
34	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

33	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
32	Organic matter and dissolved salts removal in a microbial desalination cell with different orientation of ion exchange membranes. <i>Desalination and Water Treatment</i> , 2014 , 1-9		2
31	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
30	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
29	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
28	Influence of ceramic separator characteristics on microbial fuel cell performance. <i>Journal of Electrochemical Science and Engineering</i> , 2014 , 4,	1.9	29
27	Comparative pretreatment method for efficient enzymatic hydrolysis of <i>Salvinia cucullata</i> and sewage treatment in ponds containing this biomass. <i>Clean Technologies and Environmental Policy</i> , 2014 , 16, 1787-1794	4.3	5
26	Graphene Oxide-Impregnated PVA/BA 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
25	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
24	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
23	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
22	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
21	Effect of operating temperature on performance of microbial fuel cell. <i>Water Science and Technology</i> , 2011 , 64, 917-22	2.2	45
20	Performance and Economics of Low Cost Clay Cylinder Microbial Fuel Cell for Wastewater Treatment 2011 ,		2
19	Application of electro-active biofilms. <i>Biofouling</i> , 2010 , 26, 57-71	3.3	100
18	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
17	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
16	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

15	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
14	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
13	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
12	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
11	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
10	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
9	Improving performance of MFC by design alteration and adding cathodic electrolytes. <i>Applied Biochemistry and Biotechnology</i> , 2008 , 151, 319-32	3.2	37
8	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
7	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
6	Required minimum granule size in UASB reactor and characteristics variation with size. <i>Bioresource Technology</i> , 2007 , 98, 994-9	11	64
5	Sewage reuse for aquaculture after treatment in oxidation and duckweed pond. <i>Water Science and Technology</i> , 2007 , 55, 173-81	2.2	5
4	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
3	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
2	Electrocoagulation as an efficacious technology for the treatment of wastewater containing active pharmaceutical compounds: a review. <i>Separation Science and Technology</i> , 1-23	2.5	1
1	Performance evaluation of microbial fuel cell using novel anode architecture and with low cost components. <i>Journal of Environmental Engineering and Science</i> , 1-8	0.8	0