Sovik Das

List of Publications by Year
in descending order

44 papers	1,308 citations	279778 23 h-index	361001 35 g-index
45 all docs	45 docs citations	45 times ranked	747 citing authors

#	Article	IF	Citations
1	Novel low cost proton exchange membrane made from sulphonated biochar for application in microbial fuel cells. Materials Chemistry and Physics, 2020, 239, 122025.	4.0	127
2	Quorum-sensing mediated signals: A promising multi-functional modulators for separately enhancing algal yield and power generation in microbial fuel cell. Bioresource Technology, 2019, 294, 122138.	9.6	81
3	Goethite supplemented natural clay ceramic as an alternative proton exchange membrane and its application in microbial fuel cell. Ionics, 2020, 26, 3061-3072.	2.4	78
4	Application of bimetallic low-cost CuZn as oxygen reduction cathode catalyst in lab-scale and field-scale microbial fuel cell. Chemical Physics Letters, 2020, 751, 137536.	2.6	65
5	Improved performance of microbial fuel cell by using conductive ink printed cathode containing Co3O4 or Fe3O4. Electrochimica Acta, 2019, 310, 173-183.	5.2	58
6	Reviewâ€"Microbial Electrosynthesis: A Way Towards The Production of Electro-Commodities Through Carbon Sequestration with Microbes as Biocatalysts. Journal of the Electrochemical Society, 2020, 167, 155510.	2.9	57
7	Application of bioelectrochemical systems for carbon dioxide sequestration and concomitant valuable recovery: A review. Materials Science for Energy Technologies, 2019, 2, 687-696.	1.8	51
8	Ameliorated performance of a microbial fuel cell operated with an alkali pre-treated clayware ceramic membrane. International Journal of Hydrogen Energy, 2020, 45, 16787-16798.	7.1	50
9	Production of Hydrogen Peroxide Using Various Metal-Based Catalysts in Electrochemical and Bioelectrochemical Systems: Mini Review. Journal of Hazardous, Toxic, and Radioactive Waste, 2020, 24, .	2.0	45
10	Using rhodium as a cathode catalyst for enhancing performance of microbial fuel cell. International Journal of Hydrogen Energy, 2019, 44, 22218-22222.	7.1	44
11	Increasing methane content in biogas and simultaneous value added product recovery using microbial electrosynthesis. Water Science and Technology, 2018, 77, 1293-1302.	2.5	43
12	Performance Evaluation of Microbial Fuel Cell Operated with Pd or MnO ₂ as Cathode Catalyst and Chaetoceros Pretreated Anodic Inoculum. Journal of Hazardous, Toxic, and Radioactive Waste, 2020, 24, .	2.0	41
13	Application of TiO2 and Rh as cathode catalyst to boost the microbial electrosynthesis of organic compounds through CO2 sequestration. Process Biochemistry, 2021, 101, 237-246.	3.7	37
14	Removal of caffeine from wastewater using electrochemical advanced oxidation process: A mini review. Case Studies in Chemical and Environmental Engineering, 2021, 4, 100129.	6.1	35
15	Improved Wastewater Treatment by Combined System of Microbial Fuel Cell with Activated Carbon/TiO2 Cathode Catalyst and Membrane Bioreactor. Journal of the Institution of Engineers (India): Series A, 2019, 100, 675-682.	1.2	32
16	Role of applied potential on microbial electrosynthesis of organic compounds through carbon dioxide sequestration. Journal of Environmental Chemical Engineering, 2020, 8, 104028.	6.7	32
17	Optimal cathodic imposed potential and appropriate catalyst for the synthesis of hydrogen peroxide in microbial electrolysis cell. Chemical Physics Letters, 2020, 754, 137690.	2.6	31
18	Tungsten oxide as electrocatalyst for improved power generation and wastewater treatment in microbial fuel cell. Environmental Technology (United Kingdom), 2020, 41, 2546-2553.	2.2	30

#	Article	IF	Citations
19	Role of bioelectrochemical systems for the remediation of emerging contaminants from wastewater: A review. Journal of Basic Microbiology, 2022, 62, 201-222.	3.3	29
20	Chemically Stable Sulfonated Polytriazoles Containing Trifluoromethyl and Phosphine Oxide Moieties for Proton Exchange Membranes. ACS Applied Polymer Materials, 2020, 2, 2967-2979.	4.4	27
21	Bacterial signalling mechanism: An innovative microbial intervention with multifaceted applications in microbial electrochemical technologies: A review. Bioresource Technology, 2022, 344, 126218.	9.6	26
22	Proficient Sanitary Wastewater Treatment in Laboratory and Field-Scale Microbial Fuel Cell with Anti-Biofouling Cu_{0.5}Mn_{0.5}Fe₂O₄ as Cathode Catalyst. Journal of the Electrochemical Society, 2021, 168, 054519.	2.9	25
23	Efficacious bioremediation of heavy metals and radionuclides from wastewater employing aquatic macroâ€•and microphytes. Journal of Basic Microbiology, 2022, 62, 260-278.	3.3	25
24	Live diatoms as potential biocatalyst in a microbial fuel cell for harvesting continuous diafuel, carotenoids and bioelectricity. Chemosphere, 2022, 291, 132841.	8.2	24
25	Application of innovative electrochemical and microbial electrochemical technologies for the efficacious removal of emerging contaminants from wastewater: A review. Journal of Environmental Chemical Engineering, 2022, 10, 108230.	6.7	24
26	Metal organic frameworks as emergent oxygen-reducing cathode catalysts for microbial fuel cells: a review. International Journal of Environmental Science and Technology, 2022, 19, 11539-11560.	3.5	21
27	Application of microbial electrochemical technologies for the treatment of petrochemical wastewater with concomitant valuable recovery: A review. Environmental Science and Pollution Research, 2022, 29, 61783-61802.	5.3	20
28	Electrocoagulation as an efficacious technology for the treatment of wastewater containing active pharmaceutical compounds: a review. Separation Science and Technology, 2022, 57, 1234-1256.	2.5	18
29	Concomitant production of bioelectricity and hydrogen peroxide leading to the holistic treatment of wastewater in microbial fuel cell. Chemical Physics Letters, 2020, 759, 137986.	2.6	17
30	High throughput techniques for the rapid identification of electroactive microorganisms. Chemosphere, 2021, 285, 131489.	8.2	17
31	The COVID-19 pandemic: biological evolution, treatment options and consequences. Innovative Infrastructure Solutions, 2020, 5, 1.	2.2	14
32	Preparation of Sulfonated Polytriazoles with a Phosphaphenanthrene Unit via Click Polymerization: Fabrication of Membranes and Properties Thereof. ACS Applied Polymer Materials, 2021, 3, 4127-4138.	4.4	14
33	Proclaiming Electrochemical Oxidation as a Potent Technology for the Treatment of Wastewater Containing Xenobiotic Compounds: A Mini Review. Journal of Hazardous, Toxic, and Radioactive Waste, 2021, 25, .	2.0	12
34	High-Density Polyethylene Waste-Derived Carbon as a Low-Cost Cathode Catalyst in Microbial Fuel Cell. International Journal of Environmental Research, 2021, 15, 1085-1096.	2.3	10
35	A Sustainable Approach for the Production of Green Energy With the Holistic Treatment of Wastewater Through Microbial Electrochemical Technologies: A Review. Frontiers in Sustainability, 2021, 2, .	2.6	8
36	Application of novel modular reactor for microbial electrosynthesis employing imposed potential with concomitant separation of acetic acid. Sustainable Energy Technologies and Assessments, 2021, 43, 100902.	2.7	7

#	Article	IF	Citations
37	Performance comparison between batch and continuous mode of operation of microbial electrosynthesis for the production of organic chemicals. Journal of Applied Electrochemistry, 2021, 51, 715-725.	2.9	7
38	Integration of bioelectrochemical systems with other existing wastewater treatment processes. , 2020, , 229-248.		7
39	Appraising efficacy of existing and advanced technologies for the remediation of beta-blockers from wastewater: A review. Environmental Science and Pollution Research, 2023, 30, 25427-25451.	5.3	7
40	Bismuth-Impregnated Ruthenium with Activated Carbon as Photocathode Catalyst to Proliferate the Efficacy of a Microbial Fuel Cell. Journal of Hazardous, Toxic, and Radioactive Waste, 2021, 25, .	2.0	4
41	Concomitant bioenergy production and wastewater treatment employing microbial electrochemical technologies. , 2022, , 359-385.		3
42	Evaluating application of photosynthetic microbial fuel cell to exhibit efficient carbon sequestration with concomitant value-added product recovery from wastewater: A review. Environmental Science and Pollution Research, 2023, 30, 98995-99012.	5.3	3
43	Microbial Electrochemical Technologies for CO2 Sequestration. , 2021, , 413-443.		1
44	Biofuel cell: existing formats, production level, constraints, and potential uses. , 2022, , 531-550.		1