

Mostafa Ghasemi

List of Publications by Citations

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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.

73
papers

3,440⁰
citations

31
h-index

58
g-index

77
ext. papers

3,848
ext. citations

5.7
avg, IF

5.44
L-index

#	Paper	IF	Citations
73	Non-Pt catalyst as oxygen reduction reaction in microbial fuel cells: A review. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 4870-4883	6.7	231
72	Ion exchange membranes as separators in microbial fuel cells for bioenergy conversion: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 28, 575-587	16.2	219
71	Nano-structured carbon as electrode material in microbial fuel cells: A comprehensive review. <i>Journal of Alloys and Compounds</i> , 2013 , 580, 245-255	5.7	162
70	Activated carbon nanofibers as an alternative cathode catalyst to platinum in a two-chamber microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 13746-13752	6.7	151
69	Synthesis, characterization and application studies of self-made Fe ₃ O ₄ /PES nanocomposite membranes in microbial fuel cell. <i>Electrochimica Acta</i> , 2012 , 85, 700-706	6.7	128
68	Effect of pre-treatment and biofouling of proton exchange membrane on microbial fuel cell performance. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 5480-5484	6.7	125
67	Copper-phthalocyanine and nickel nanoparticles as novel cathode catalysts in microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 9533-9540	6.7	115
66	Carbon nanotube as an alternative cathode support and catalyst for microbial fuel cells. <i>Applied Energy</i> , 2013 , 102, 1050-1056	10.7	115
65	Spray drying: An overview on wall deposition, process and modeling. <i>Journal of Food Engineering</i> , 2015 , 146, 152-162	6	114
64	Biocathode in microbial electrolysis cell; present status and future prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 47, 23-33	16.2	111
63	New generation of carbon nanocomposite proton exchange membranes in microbial fuel cell systems. <i>Chemical Engineering Journal</i> , 2012 , 184, 82-89	14.7	109
62	Separators used in microbial electrochemical technologies: Current status and future prospects. <i>Bioresour. Technol.</i> , 2015 , 195, 170-9	11	102
61	Simultaneous wastewater treatment and electricity generation by microbial fuel cell: Performance comparison and cost investigation of using Nafion 117 and SPEEK as separators. <i>Desalination</i> , 2013 , 325, 1-6	10.3	96
60	Sulfonated poly(ether ether ketone)/poly(ether sulfone) composite membranes as an alternative proton exchange membrane in microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 11409-11424	6.7	92
59	Electricity generation from rice straw using a microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 9490-9496	6.7	81
58	Composite membrane containing graphene oxide in sulfonated polyether ether ketone in microbial fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 11604-11614	6.7	77
57	Carbon nanotube/polypyrrole nanocomposite as a novel cathode catalyst and proper alternative for Pt in microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 4872-4878	6.7	73

56	A review on the effect of proton exchange membranes in microbial fuel cells. <i>Biofuel Research Journal</i> , 2014 , 01, 7-15	13.9	72
55	Performance enhancement of microbial fuel cell by PVDF/Nafion nanofibre composite proton exchange membrane. <i>Fuel Processing Technology</i> , 2014 , 124, 290-295	7.2	64
54	Development and application of vanadium oxide/polyaniline composite as a novel cathode catalyst in microbial fuel cell. <i>International Journal of Energy Research</i> , 2014 , 38, 70-77	4.5	60
53	A review on the role of proton exchange membrane on the performance of microbial fuel cell. <i>Polymers for Advanced Technologies</i> , 2014 , 25, 1426-1432	3.2	60
52	Life cycle assessment of waste cooking oil for biodiesel production using waste chicken eggshell derived CaO as catalyst via transesterification. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019 , 21, 1013-1017	4.7	57
51	Manganese oxide/functionalised carbon nanotubes nanocomposite as catalyst for oxygen reduction reaction in microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 11625-11632	6.7	56
50	Synthesis and optimization of PES-Fe ₃ O ₄ mixed matrix nanocomposite membrane: Application studies in water purification. <i>Polymer Composites</i> , 2013 , 34, 1870-1877	3	55
49	Characterization of membrane biofouling and its effect on the performance of microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 543-552	6.7	49
48	Synthesis and application of polypyrrole/carrageenan nano-bio composite as a cathode catalyst in microbial fuel cells. <i>Carbohydrate Polymers</i> , 2014 , 114, 253-259	10.3	49
47	Thorough study of the effect of metal-incorporated SAPO-34 molecular sieves on catalytic performances in MTO process. <i>Powder Technology</i> , 2016 , 291, 131-139	5.2	46
46	Clean hydrogen production in a full biological microbial electrolysis cell. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 30524-30531	6.7	43
45	The effect of nitric acid, ethylenediamine, and diethanolamine modified polyaniline nanoparticles anode electrode in a microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 9525-9532	6.7	42
44	Development of polyaniline-modified polysulfone nanocomposite membrane. <i>Applied Water Science</i> , 2012 , 2, 37-46	5	34
43	Power generation and wastewater treatment using a novel SPEEK nanocomposite membrane in a dual chamber microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 477-487	6.7	34
42	Effect of operating temperature on the behavior of promising SPEEK/cSMM electrolyte membrane for DMFCs. <i>Separation and Purification Technology</i> , 2013 , 106, 72-81	8.3	30
41	A comprehensive study on development of a biocathode for cleaner production of hydrogen in a microbial electrolysis cell. <i>Journal of Cleaner Production</i> , 2017 , 164, 1135-1144	10.3	30
40	Improvement of Microbial Fuel Cell Performance by Using Nafion Polyaniline Composite Membranes as a Separator. <i>Journal of Fuel Cell Science and Technology</i> , 2013 , 10,		30
39	Performance optimisation of microbial fuel cell for wastewater treatment and sustainable clean energy generation using response surface methodology. <i>AEJ - Alexandria Engineering Journal</i> , 2018 , 57, 4243-4253	6.1	30

38	Treatment of two different water resources in desalination and microbial fuel cell processes by poly sulfone/Sulfonated poly ether ether ketone hybrid membrane. <i>Energy</i> , 2016 , 96, 303-313	7.9	28
37	Sulfonated poly ether ether ketone with different degree of sulphonation in microbial fuel cell: Application study and economical analysis. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 4862-4871	6.7	26
36	Simultaneous organics, sulphate and salt removal in a microbial desalination cell with an insight into microbial communities. <i>Desalination</i> , 2018 , 445, 204-212	10.3	26
35	Performance Comparison of Three Common Proton Exchange Membranes for Sustainable Bioenergy Production in Microbial Fuel Cell. <i>Procedia CIRP</i> , 2015 , 26, 162-166	1.8	25
34	Assessment of recirculation batch mode of operation in bioelectrochemical system; a way forward for cleaner production of energy and waste treatment. <i>Journal of Cleaner Production</i> , 2017 , 142, 2544-2555	10.3	25
33	Process optimization of batch biosorption of lead using <i>Lactobacillus bulgaricus</i> in an aqueous phase system using response surface methodology. <i>World Journal of Microbiology and Biotechnology</i> , 2012 , 28, 2047-55	4.4	24
32	Achievements and trends of solid oxide fuel cells in clean energy field: a perspective review. <i>Frontiers in Energy</i> , 2020 , 14, 359-382	2.6	24
31	Assessment of immobilized cell reactor and microbial fuel cell for simultaneous cheese whey treatment and lactic acid/electricity production. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 9107-9115	6.7	22
30	A comparison of long-term fouling performance by zirconia ceramic filter and cation exchange in microbial fuel cells. <i>International Biodeterioration and Biodegradation</i> , 2019 , 136, 63-70	4.8	22
29	Transport properties of SPEEK nanocomposite proton conducting membranes: Optimization of additives content by response surface methodology. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014 , 45, 2265-2279	5.3	20
28	Sustainable production of light olefins from greenhouse gas CO ₂ over SAPO-34 supported modified cerium oxide. <i>Microporous and Mesoporous Materials</i> , 2020 , 297, 110029	5.3	19
27	SPEEK/cSMM membrane for simultaneous electricity generation and wastewater treatment in microbial fuel cell. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 641-647	3.5	19
26	Performance of titanium-bickel (Ti/Ni) and graphite felt-nickel (GF/Ni) electrodeposited by Ni as alternative cathodes for microbial fuel cells. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018 , 89, 67-76	5.3	18
25	Asphaltene adsorption using green nanocomposites: Experimental study and adaptive neuro-fuzzy interference system modeling. <i>Journal of Petroleum Science and Engineering</i> , 2019 , 177, 1103-1113	4.4	17
24	Immobilized mixed-culture reactor (IMcR) for hydrogen and methane production from glucose. <i>Energy</i> , 2017 , 139, 1188-1196	7.9	15
23	Production of Sustainable Energy by Carbon Nanotube/Platinum Catalyst in Microbial Fuel Cell. <i>Procedia CIRP</i> , 2015 , 26, 473-476	1.8	15
22	Biobased Cadaverine as a Green Template in the Synthesis of NiO/ZSM-5 Nanocomposites for Removal of Petroleum Asphaltenes: Financial Analysis, Isotherms, and Kinetics Study. <i>Energy & Fuels</i> , 2018 , 32, 7412-7422	4.1	14
21	Production of hydrogen by <i>Enterobacter aerogenes</i> in an immobilized cell reactor. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 9024-9030	6.7	13

20	A novel application of a neurofuzzy computational technique in modeling of thermal cracking of heavy feedstock to light olefin. <i>RSC Advances</i> , 2014 , 4, 28390	3.7	13
19	Desalination of Brackish Water Using Nanofiltration: Performance Comparison of Different Membranes. <i>Arabian Journal for Science and Engineering</i> , 2013 , 38, 2929-2939		13
18	Effect of the Membrane Type and Resistance Load on the Performance of the Microbial Fuel Cell: A Step ahead of Microbial Desalination Cell Establishment. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2017 , 96, 346-351	0.5	11
17	Potentiometric Chromate Anion Detection Based on Co(SALEN) ₂ Ionophore in a PVC-Membrane Sensor. <i>Journal of the Electrochemical Society</i> , 2014 , 161, B129-B136	3.9	11
16	Catalytic performance of CeAPSO-34 molecular sieve with various cerium content for methanol conversion to olefin. <i>Korean Journal of Chemical Engineering</i> , 2017 , 34, 997-1003	2.8	10
15	Evaluation of solvent dearomatization effect in heavy feedstock thermal cracking to light olefin: An optimization study. <i>Korean Journal of Chemical Engineering</i> , 2013 , 30, 1700-1709	2.8	10
14	ACETONE REMOVAL AND BIOELECTRICITY GENERATION IN DUAL CHAMBER MICROBIAL FUEL CELL. <i>American Journal of Biochemistry and Biotechnology</i> , 2012 , 8, 304-310	0.4	10
13	MASS TRANSFER LIMITATION IN DIFFERENT ANODE ELECTRODE SURFACE AREAS ON THE PERFORMANCE OF DUAL CHAMBER MICROBIAL FUEL CELL. <i>American Journal of Biochemistry and Biotechnology</i> , 2012 , 8, 320-325	0.4	7
12	Performance improvement of microbial fuel cell through artificial intelligence. <i>International Journal of Energy Research</i> , 2021 , 45, 342-354	4.5	7
11	Microbial fuel cell for oilfield produced water treatment and reuse: Modelling and process optimization. <i>Korean Journal of Chemical Engineering</i> , 2021 , 38, 72-80	2.8	5
10	State of the Art of Techno-Economics of Nanofluid-Laden Flat-Plate Solar Collectors for Sustainable Accomplishment. <i>Sustainability</i> , 2020 , 12, 9119	3.6	4
9	Smart anticorrosive coatings containing corrosion inhibitor-loaded halloysite nanotubes 2019 , 425-447		4
8	Investigating new techniques for the treatment of oil field produced water and energy production. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	3
7	Oil field produced water recovery and boosting the quality for using in membrane less fuel cell. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	3
6	POLYSULFONE COMPOSED OF POLYANILINE NANOPARTICLES AS NANOCOMPOSITE PROTON EXCHANGE MEMBRANE IN MICROBIAL FUEL CELL. <i>American Journal of Biochemistry and Biotechnology</i> , 2012 , 8, 311-319	0.4	3
5	Investigation of the Effect of Electrospun Polyethersulfone Nanofibers in Membrane. <i>Defect and Diffusion Forum</i> , 2011 , 312-315, 607-612	0.7	3
4	Carbon Nanotube/Pt Cathode Nanocomposite Electrode in Microbial Fuel Cells for Wastewater Treatment and Bioenergy Production. <i>Sustainability</i> , 2021 , 13, 8057	3.6	3
3	Carbon-Based Polymer Nanocomposites as Electrodes for Microbial Fuel Cells 2018 , 361-390		2

2	Systematic investigation of simultaneous removal of phosphate/nitrate from water using Ag/rGO nanocomposite: Development, characterization, performance and mechanism. <i>Research on Chemical Intermediates</i> , 2021 , 47, 1377-1395	2.8	2
1	Synthesis and Characterization of PES/TiO ₂ Nanofibers Membrane. <i>Defect and Diffusion Forum</i> , 2011 , 312-315, 613-619	0.7	1