

Mostafa Ghasemi

List of Publications by Year in descending order

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76
papers

4,314
citations

94433
37
h-index

106344
65
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77
all docs

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docs citations

77
times ranked

3847
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	16.4	272
2	Non-Pt catalyst as oxygen reduction reaction in microbial fuel cells: A review. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4870-4883.	7.1	269
3	Nano-structured carbon as electrode material in microbial fuel cells: A comprehensive review. <i>Journal of Alloys and Compounds</i> , 2013, 580, 245-255.	5.5	192
4	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.	7.1	171
5	Spray drying: An overview on wall deposition, process and modeling. <i>Journal of Food Engineering</i> , 2015, 146, 152-162.	5.2	156
6	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.	7.1	148
7	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.	5.2	147
8	Biocathode in microbial electrolysis cell; present status and future prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 47, 23-33.	16.4	136
9	Carbon nanotube as an alternative cathode support and catalyst for microbial fuel cells. <i>Applied Energy</i> , 2013, 102, 1050-1056.	10.1	133
10	Copper-phthalocyanine and nickel nanoparticles as novel cathode catalysts in microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9533-9540.	7.1	132
11	New generation of carbon nanocomposite proton exchange membranes in microbial fuel cell systems. <i>Chemical Engineering Journal</i> , 2012, 184, 82-89.	12.7	131
12	Separators used in microbial electrochemical technologies: Current status and future prospects. <i>Bioresource Technology</i> , 2015, 195, 170-179.	9.6	124
13	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.	8.2	114
14	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.	7.1	109
15	Electricity generation from rice straw using a microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 9490-9496.	7.1	104
16	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, 101317.	3.1	99
17	A review on the effect of proton exchange membranes in microbial fuel cells. <i>Biofuel Research Journal</i> , 2014, 01, 7-15.	13.3	97
18	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.	7.1	95

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19	Carbon nanotube/polypyrrole nanocomposite as a novel cathode catalyst and proper alternative for Pt in microbial fuel cell. International Journal of Hydrogen Energy, 2016, 41, 4872-4878.	7.1	87
20	A review on the role of proton exchange membrane on the performance of microbial fuel cell. Polymers for Advanced Technologies, 2014, 25, 1426-1432.	3.2	82
21	Performance enhancement of microbial fuel cell by PVDF/Nafion nanofibre composite proton exchange membrane. Fuel Processing Technology, 2014, 124, 290-295.	7.2	79
22	Development and application of vanadium oxide/polyaniline composite as a novel cathode catalyst in microbial fuel cell. International Journal of Energy Research, 2014, 38, 70-77.	4.5	70
23	Characterization of membrane biofouling and its effect on the performance of microbial fuel cell. International Journal of Hydrogen Energy, 2016, 41, 543-552.	7.1	66
24	Synthesis and optimization of PES- Fe_3O_4 mixed matrix nanocomposite membrane: Application studies in water purification. Polymer Composites, 2013, 34, 1870-1877.	4.6	64
25	Clean hydrogen production in a full biological microbial electrolysis cell. International Journal of Hydrogen Energy, 2019, 44, 30524-30531.	7.1	63
26	Manganese oxide/functionalised carbon nanotubes nanocomposite as catalyst for oxygen reduction reaction in microbial fuel cell. International Journal of Hydrogen Energy, 2015, 40, 11625-11632.	7.1	62
27	Synthesis and application of polypyrrole/carrageenan nano-bio composite as a cathode catalyst in microbial fuel cells. Carbohydrate Polymers, 2014, 114, 253-259.	10.2	57
28	Thorough study of the effect of metal-incorporated SAPO-34 molecular sieves on catalytic performances in MTO process. Powder Technology, 2016, 291, 131-139.	4.2	54
29	The effect of nitric acid, ethylenediamine, and diethanolamine modified polyaniline nanoparticles anode electrode in a microbial fuel cell. International Journal of Hydrogen Energy, 2013, 38, 9525-9532.	7.1	48
30	Performance optimisation of microbial fuel cell for wastewater treatment and sustainable clean energy generation using response surface methodology. AEJ - Alexandria Engineering Journal, 2018, 57, 4243-4253.	6.4	48
31	Development of polyaniline-modified polysulfone nanocomposite membrane. Applied Water Science, 2012, 2, 37-46.	5.6	44
32	Power generation and wastewater treatment using a novel SPEEK nanocomposite membrane in a dual chamber microbial fuel cell. International Journal of Hydrogen Energy, 2015, 40, 477-487.	7.1	44
33	A comprehensive study on development of a biocathode for cleaner production of hydrogen in a microbial electrolysis cell. Journal of Cleaner Production, 2017, 164, 1135-1144.	9.3	42
34	Simultaneous organics, sulphate and salt removal in a microbial desalination cell with an insight into microbial communities. Desalination, 2018, 445, 204-212.	8.2	40
35	Achievements and trends of solid oxide fuel cells in clean energy field: a perspective review. Frontiers in Energy, 2020, 14, 359-382.	2.3	40
36	Effect of operating temperature on the behavior of promising SPEEK/cSMM electrolyte membrane for DMFCs. Separation and Purification Technology, 2013, 106, 72-81.	7.9	38

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37	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.	8.8	38
38	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, .	0.8	35
39	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.	7.1	35
40	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.	3.9	33
41	Performance Comparison of Three Common Proton Exchange Membranes for Sustainable Bioenergy Production in Microbial Fuel Cell. <i>Procedia CIRP</i> , 2015, 26, 162-166.	1.9	31
42	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.	9.3	30
43	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, 2047-2055.	3.6	29
44	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.	7.1	29
45	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.	4.4	28
46	<scp>SPEEK</scp>/<scp>cSMM</scp> membrane for simultaneous electricity generation and wastewater treatment in microbial fuel cell. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 641-647.	3.2	24
47	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.	4.2	24
48	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	23
49	Performance of titanium–nickel (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	22
50	Performance improvement of microbial fuel cell through artificial intelligence. <i>International Journal of Energy Research</i> , 2021, 45, 342-354.	4.5	22
51	Immobilized mixed-culture reactor (IMcR) for hydrogen and methane production from glucose. <i>Energy</i> , 2017, 139, 1188-1196.	8.8	20
52	Production of Sustainable Energy by Carbon Nanotube/Platinum Catalyst in Microbial Fuel Cell. <i>Procedia CIRP</i> , 2015, 26, 473-476.	1.9	19
53	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.	5.1	19
54	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.	2.7	19

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55	A novel application of a neuro-fuzzy computational technique in modeling of thermal cracking of heavy feedstock to light olefin. RSC Advances, 2014, 4, 28390.	3.6	17
56	Production of hydrogen by Enterobacter aerogenes in an immobilized cell reactor. International Journal of Hydrogen Energy, 2017, 42, 9024-9030.	7.1	17
57	Desalination of Brackish Water Using Nanofiltration: Performance Comparison of Different Membranes. Arabian Journal for Science and Engineering, 2013, 38, 2929-2939.	1.1	15
58	ACETONE REMOVAL AND BIOELECTRICITY GENERATION IN DUAL CHAMBER MICROBIAL FUEL CELL. American Journal of Biochemistry and Biotechnology, 2012, 8, 304-310.	0.4	14
59	Potentiometric Chromate Anion Detection Based on Co(SALEN) ₂ Ionophore in a PVC-Membrane Sensor. Journal of the Electrochemical Society, 2014, 161, B129-B136.	2.9	13
60	Catalytic performance of CeAPSO-34 molecular sieve with various cerium content for methanol conversion to olefin. Korean Journal of Chemical Engineering, 2017, 34, 997-1003.	2.7	12
61	Effect of the Membrane Type and Resistance Load on the Performance of the Microbial Fuel Cell: A Step ahead of Microbial Desalination Cell Establishment. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2017, 96, 346-351.	0.2	12
62	Carbon Nanotube/Pt Cathode Nanocomposite Electrode in Microbial Fuel Cells for Wastewater Treatment and Bioenergy Production. Sustainability, 2021, 13, 8057.	3.2	11
63	Evaluation of solvent dearomatization effect in heavy feedstock thermal cracking to light olefin: An optimization study. Korean Journal of Chemical Engineering, 2013, 30, 1700-1709.	2.7	10
64	MASS TRANSFER LIMITATION IN DIFFERENT ANODE ELECTRODE SURFACE AREAS ON THE PERFORMANCE OF DUAL CHAMBER MICROBIAL FUEL CELL. American Journal of Biochemistry and Biotechnology, 2012, 8, 320-325.	0.4	9
65	State of the Art of Techno-Economics of Nanofluid-Laden Flat-Plate Solar Collectors for Sustainable Accomplishment. Sustainability, 2020, 12, 9119.	3.2	9
66	POLYSULFONE COMPOSED OF POLYANILINE NANOPARTICLES AS NANOCOMPOSITE PROTON EXCHANGE MEMBRANE IN MICROBIAL FUEL CELL. American Journal of Biochemistry and Biotechnology, 2012, 8, 311-319.	0.4	5
67	Carbon-Based Polymer Nanocomposites as Electrodes for Microbial Fuel Cells. , 2018, , 361-390.		5
68	Smart anticorrosive coatings containing corrosion inhibitor-loaded halloysite nanotubes. , 2019, , 425-447.		5
69	Investigation of the Effect of Electrospun Polyethersulfone Nanofibers in Membrane. Defect and Diffusion Forum, 2011, 312-315, 607-612.	0.4	4
70	Oil field produced water recovery and boosting the quality for using in membrane less fuel cell. SN Applied Sciences, 2019, 1, 1.	2.9	4
71	SPEEK/PES composite membranes as an alternative for proton exchange membrane in microbial fuel cell (MFC). , 2011, , .		3
72	Investigating new techniques for the treatment of oil field produced water and energy production. SN Applied Sciences, 2019, 1, 1.	2.9	3

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73	Systematic investigation of simultaneous removal of phosphate/nitrate from water using Ag/rGO nanocomposite: Development, characterization, performance and mechanism. Research on Chemical Intermediates, 2021, 47, 1377-1395.	2.7	3
74	A comprehensive review on membranes in microbial desalination cells; processes, utilization, and challenges. International Journal of Energy Research, 2022, 46, 14716-14739.	4.5	3
75	Synthesis and Characterization of PES/TiO ₂ Nanofibers Membrane. Defect and Diffusion Forum, 0, 312-315, 613-619.	0.4	1
76	Comparative study of energy production and treatment of municipal and dairy wastewater via microbial fuel cell technology: process evaluation towards optimization. Biomass Conversion and Biorefinery, 2024, 14, 6285-6298.	4.6	1