

Mohamed Mamlouk

List of Publications by Year in descending order

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66
papers

2,862
citations

126708

33
h-index

174990

52
g-index

66
all docs

66
docs citations

66
times ranked

2585
citing authors

#	ARTICLE	IF	CITATIONS
1	A two-phase flow and non-isothermal agglomerate model for a proton exchange membrane (PEM) fuel cell. <i>Energy</i> , 2014, 73, 618-634.	4.5	194
2	Sulfonated polyether ether ketone "sulfonated graphene oxide composite membranes for polymer electrolyte fuel cells. <i>RSC Advances</i> , 2014, 4, 617-623.	1.7	120
3	A review of proton exchange membranes based on protic ionic liquid/polymer blends for polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2021, 484, 229197.	4.0	117
4	Physical and electrochemical evaluation of ATO supported IrO ₂ catalyst for proton exchange membrane water electrolyser. <i>Journal of Power Sources</i> , 2014, 269, 451-460.	4.0	110
5	Numerical analysis of the optimum membrane/ionomer water content of PEMFCs: The interaction of Nafion® ionomer content and cathode relative humidity. <i>Applied Energy</i> , 2015, 138, 242-257.	5.1	109
6	An isothermal model of a laboratory intermediate temperature fuel cell using PBI doped phosphoric acid membranes. <i>Chemical Engineering Science</i> , 2010, 65, 2513-2530.	1.9	99
7	Radiation grafted membranes for superior anion exchange polymer membrane fuel cells performance. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 11912-11920.	3.8	97
8	The effect of electrode parameters on performance of a phosphoric acid-doped PBI membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 784-793.	3.8	96
9	Modelling and experimental validation of a high temperature polymer electrolyte fuel cell. <i>Journal of Applied Electrochemistry</i> , 2007, 37, 1245-1259.	1.5	93
10	Numerical investigation of the optimal Nafion® ionomer content in cathode catalyst layer: An agglomerate two-phase flow modelling. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 9087-9104.	3.8	86
11	Electrochemical and fuel cell evaluation of Co based catalyst for oxygen reduction in anion exchange polymer membrane fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 7594-7600.	4.0	85
12	Study on the effect of the degree of grafting on the performance of polyethylene-based anion exchange membrane for fuel cell application. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 1120-1133.	3.8	79
13	Anode partial flooding modelling of proton exchange membrane fuel cells: Model development and validation. <i>Energy</i> , 2016, 96, 80-95.	4.5	75
14	Preparation and characterisation of carbon-supported palladium nanoparticles for oxygen reduction in low temperature PEM fuel cells. <i>Journal of Applied Electrochemistry</i> , 2011, 41, 925-937.	1.5	70
15	A two dimensional agglomerate model for a proton exchange membrane fuel cell. <i>Energy</i> , 2013, 61, 196-210.	4.5	70
16	Preparation of alkaline anion exchange polymer membrane from methylated melamine grafted poly(vinylbenzyl chloride) and its fuel cell performance. <i>Journal of Materials Chemistry</i> , 2011, 21, 12910.	6.7	64
17	The effect of electrode parameters on the performance of anion exchange polymer membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7191-7198.	3.8	64
18	Comparison of high-temperature and low-temperature polymer electrolyte membrane fuel cell systems with glycerol reforming process for stationary applications. <i>Applied Energy</i> , 2013, 109, 192-201.	5.1	64

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19	Degradation of radiation grafted hydroxide anion exchange membrane immersed in neutral pH: removal of vinylbenzyl trimethylammonium hydroxide due to oxidation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1248-1267.	5.2	60
20	Composite membranes of polybenzimidazole and caesium-salts-of-heteropolyacids for intermediate temperature fuel cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 6014.	6.7	55
21	Preparation and characterization of polybenzimidazole/diethylamine hydrogen sulphate for medium temperature proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2014, 245, 915-926.	4.0	55
22	Phosphoric acid-doped electrodes for a PBI polymer membrane fuel cell. <i>International Journal of Energy Research</i> , 2011, 35, 507-519.	2.2	52
23	A dynamic non-isothermal model of a laboratory intermediate temperature fuel cell using PBI doped phosphoric acid membranes. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 12065-12080.	3.8	48
24	Analysis of high temperature polymer electrolyte membrane fuel cell electrodes using electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2011, 56, 5493-5512.	2.6	44
25	Effect of anion functional groups on the conductivity and performance of anion exchange polymer membrane fuel cells. <i>Journal of Power Sources</i> , 2012, 211, 140-146.	4.0	44
26	Performance of polyethylene based radiation grafted anion exchange membrane with polystyrene-b-poly (ethylene/butylene)-b-polystyrene based ionomer using NiCo ₂ O ₄ catalyst for water electrolysis. <i>Journal of Power Sources</i> , 2018, 375, 387-396.	4.0	42
27	Maximizing the efficiency of a HT-PEMFC system integrated with glycerol reformer. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6808-6817.	3.8	40
28	A High Temperature Polymer Electrolyte Membrane Fuel Cell Model for Reformate Gas. <i>International Journal of Electrochemistry</i> , 2011, 2011, 1-18.	2.4	39
29	Degradation of radiation grafted anion exchange membranes tethered with different amine functional groups via removal of vinylbenzyl trimethylammonium hydroxide. <i>Journal of Power Sources</i> , 2018, 375, 373-386.	4.0	39
30	Solution combustion synthesis of porous Co ₃ O ₄ nanoparticles as oxygen evolution reaction (OER) electrocatalysts in alkaline medium. <i>Journal of Alloys and Compounds</i> , 2020, 836, 154919.	2.8	37
31	Applications of poly ionic liquids in proton exchange membrane fuel cells: A review. <i>Journal of Power Sources</i> , 2021, 510, 230371.	4.0	36
32	An investigation of Pt alloy oxygen reduction catalysts in phosphoric acid doped PBI fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 1084-1089.	4.0	35
33	The effects of morphology, microstructure and mixed-valent states of MnO ₂ on the oxygen evolution reaction activity in alkaline anion exchange membrane water electrolysis. <i>Journal of Power Sources</i> , 2020, 461, 228131.	4.0	35
34	A boron phosphate-phosphoric acid composite membrane for medium temperature proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2015, 286, 290-298.	4.0	34
35	A cell voltage equation for an intermediate temperature proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 9195-9202.	3.8	33
36	Characterization and application of anion exchange polymer membranes with non-platinum group metals for fuel cells. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2011, 225, 152-160.	0.8	32

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37	Effect of different chemical modification of carbon nanotubes for the oxygen reduction reaction in alkaline media. <i>Electrochimica Acta</i> , 2014, 135, 428-438.	2.6	32
38	Direct Glycerol Fuel Cells: Comparison with Direct Methanol and Ethanol Fuel Cells. <i>ChemElectroChem</i> , 2019, 6, 2578-2585.	1.7	31
39	Gelâ€“Polymer Electrolytes Based on Poly(Ionic Liquid)/Ionic Liquid Networks. <i>ACS Applied Polymer Materials</i> , 2021, 3, 200-208.	2.0	30
40	Three Dimensional Model of a High Temperature PEMFC. Study of the Flow Field Effect on Performance. <i>Fuel Cells</i> , 2012, 12, 566-576.	1.5	26
41	Soluble Polystyreneâ€“poly (ethylene/butylene)â€“polystyrene Based Ionomer for Anion Exchange Membrane Fuel Cells Operating at 70â€“%âˆšC. <i>Fuel Cells</i> , 2018, 18, 137-147.	1.5	26
42	Longâ€“Lived Liquid Marbles for Green Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2011198.	7.8	26
43	A Nonâ€“isothermal Model of a Laboratory Intermediate Temperature Fuel Cell Using PBI Doped Phosphoric Acid Membranes. <i>Fuel Cells</i> , 2010, 10, 993-1012.	1.5	25
44	An Investigation of Palladium Oxygen Reduction Catalysts for the Direct Methanol Fuel Cell. <i>International Journal of Electrochemistry</i> , 2011, 2011, 1-12.	2.4	23
45	A PBIâ€“Sn _{0.2} /P _{0.8} O ₇ â€“H ₃ PO ₄ Composite Membrane for Intermediate Temperature Fuel Cells. <i>Fuel Cells</i> , 2011, 11, 620-625.	1.5	16
46	Highly conductive partially cross-linked poly(2,6-dimethyl-1,4-phenylene oxide) as anion exchange membrane and ionomer for water electrolysis. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 37137-37151.	3.8	16
47	Intermediate Temperature Fuel Cell and Oxygen Reduction Studies With Carbon-Supported Platinum Alloy Catalysts in Phosphoric Acid Based Systems. <i>Journal of Fuel Cell Science and Technology</i> , 2012, 9, .	0.8	14
48	A Three-Dimensional Agglomerate Model of an Anion Exchange Membrane Fuel Cell. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2018, 15, .	1.1	14
49	Three-dimensional agglomerate model of an anion exchange membrane fuel cell using air at the cathode â€“ A parametric study. <i>Journal of Power Sources</i> , 2019, 412, 105-117.	4.0	14
50	Boosting the oxygen evolution activity in non-stoichiometric praseodymium ferrite-based perovskites by A site substitution for alkaline electrolyser anodes. <i>Sustainable Energy and Fuels</i> , 2021, 5, 154-165.	2.5	14
51	The Role of Tungsten Oxide in Enhancing the Carbon Monoxide Tolerance of Platinum-Based Hydrogen Oxidation Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37079-37091.	4.0	13
52	High Temperature Direct Methanol Fuel Cell Based on Phosphoric Acid PBI Membrane. <i>Journal of Fuel Cell Science and Technology</i> , 2011, 8, .	0.8	12
53	Porous titania photoelectrodes built on a Ti-web of microfibers for polymeric electrolyte membrane photoelectrochemical (PEM-PEC) cell applications. <i>Solar Energy Materials and Solar Cells</i> , 2018, 180, 184-195.	3.0	11
54	Diethylmethylammonium trifluoromethanesulfonate protic ionic liquid electrolytes for water electrolysis. <i>Journal of Power Sources</i> , 2020, 449, 227602.	4.0	11

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55	Probing mass transport processes in Li-ion batteries using electrochemical impedance spectroscopy. <i>Journal of Power Sources</i> , 2021, 514, 230577.	4.0	10
56	Hydrogen generation by alcohol reforming in a tandem cell consisting of a coupled fuel cell and electrolyser. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 8107-8117.	3.8	9
57	Progress in Alkaline Membrane Fuel Cells and Regenerative Fuel Cells. <i>ECS Transactions</i> , 2013, 58, 1903-1906.	0.3	8
58	A study of oxygen reduction on carbon-supported platinum fuel cell electrocatalysts in polybenzimidazole/phosphoric acid. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2011, 225, 161-174.	0.8	6
59	A diethyl methyl ammonium triflate based protic ionic liquid polymer membrane for intermediate temperature water electrolysis. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 28303-28312.	3.8	5
60	Fabrication and Characterization of Tuneable Flow-Channel/Gas-Diffusion-Layer Interface for Polymer Electrolyte Fuel Cells. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2020, 17, .	1.1	5
61	A Model of a High-Temperature Direct Methanol Fuel Cell. <i>Journal of Fuel Cell Science and Technology</i> , 2013, 10, .	0.8	3
62	Entropy generation analysis based on a three-dimensional agglomerate model of an anion exchange membrane fuel cell. <i>Energy</i> , 2020, 193, 116667.	4.5	3
63	Mass Transport Characteristics of Cathodes in a Phosphoric Acid Polybenzimidazole Membrane Fuel Cell. <i>Journal of Fuel Cell Science and Technology</i> , 2011, 8, .	0.8	2
64	Alkaline Anion Exchange Membrane (AEM) Water Electrolysersâ€™ Current/Future Perspectives in Electrolysers for Hydrogen. , 2022, , 473-504.		2
65	Chapter 6. Alkaline Anionic Exchange Membrane Water Electrolysers. <i>RSC Energy and Environment Series</i> , 2019, , 180-252.	0.2	2
66	Design and Analysis of HT-PEMFC Systems with Different Fuel Processors for Stationary Applications. <i>Renewable Energy and Power Quality Journal</i> , 0, , 1353-1357.	0.2	1