

Samaneh Shahgaldi

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,720
citations

279798

23
h-index

361022

35
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all docs

36
docs citations

36
times ranked

1702
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of non-spherical platinum nanoparticle sizes on the performance and durability of proton exchange membrane fuel cells. <i>Advances in Applied Energy</i> , 2021, 4, 100071.	13.2	9
2	Degradations in porous components of a proton exchange membrane fuel cell under freeze-thaw cycles: Morphology and microstructure effects. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 3618-3631.	7.1	40
3	Modelling of mechanical microstructure changes in the catalyst layer of a polymer electrolyte membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 29904-29916.	7.1	22
4	Degradations in the surface wettability and gas permeability characteristics of proton exchange membrane fuel cell electrodes under freeze-thaw cycles: Effects of ionomer type. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 29892-29903.	7.1	11
5	A scaled-up proton exchange membrane fuel cell with enhanced performance and durability. <i>Applied Energy</i> , 2020, 268, 114956.	10.1	15
6	Effect of catalyst deposition on electrode structure, mass transport and performance of polymer electrolyte membrane fuel cells. <i>Applied Energy</i> , 2019, 255, 113802.	10.1	32
7	A review of gas diffusion layers for proton exchange membrane fuel cells—With a focus on characteristics, characterization techniques, materials and designs. <i>Progress in Energy and Combustion Science</i> , 2019, 74, 50-102.	31.2	200
8	The impact of ionomer type on the morphological and microstructural degradations of proton exchange membrane fuel cell electrodes under freeze-thaw cycles. <i>Applied Energy</i> , 2019, 238, 1048-1059.	10.1	20
9	A novel membrane electrode assembly design for proton exchange membrane fuel cells: Characterization and performance evaluation. <i>Electrochimica Acta</i> , 2019, 299, 809-819.	5.2	22
10	Geometric pore surface area and fractal dimension of catalyzed electrodes in polymer electrolyte membrane fuel cells. <i>International Journal of Energy Research</i> , 2019, 43, 3011-3019.	4.5	5
11	The impact of short side chain ionomer on polymer electrolyte membrane fuel cell performance and durability. <i>Applied Energy</i> , 2018, 217, 295-302.	10.1	51
12	Effect of Pt loading and catalyst type on the pore structure of porous electrodes in polymer electrolyte membrane (PEM) fuel cells. <i>Energy</i> , 2018, 150, 69-76.	8.8	55
13	Pore structure and effective diffusion coefficient of catalyzed electrodes in polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 3776-3785.	7.1	37
14	Influence of Ionomer Structures and Ratios on Performance and Degradation of PEM Fuel Cells. <i>ECS Transactions</i> , 2018, 83, 71-78.	0.5	4
15	Assessment of graphene as an alternative microporous layer material for proton exchange membrane fuel cells. <i>Fuel</i> , 2018, 215, 726-734.	6.4	64
16	Impact of ionomer in the catalyst layers on proton exchange membrane fuel cell performance under different reactant flows and pressures. <i>Fuel</i> , 2018, 227, 35-41.	6.4	30
17	A graphene-based microporous layer for proton exchange membrane fuel cells: Characterization and performance comparison. <i>Renewable Energy</i> , 2018, 126, 485-494.	8.9	44
18	Gas permeability of catalyzed electrodes in polymer electrolyte membrane fuel cells. <i>Applied Energy</i> , 2018, 209, 203-210.	10.1	61

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19	The role of flow-field layout on the conditioning of a proton exchange membrane fuel cell. <i>Fuel</i> , 2018, 230, 98-103.	6.4	23
20	Experimental Observations of Microstructure Changes in the Catalyst Layers of Proton Exchange Membrane Fuel Cells under Wet-Dry Cycles. <i>Journal of the Electrochemical Society</i> , 2018, 165, F3337-F3345.	2.9	52
21	Impact of manufacturing processes on proton exchange membrane fuel cell performance. <i>Applied Energy</i> , 2018, 225, 1022-1032.	10.1	82
22	Cathode catalyst layer design with gradients of ionomer distribution for proton exchange membrane fuel cells. <i>Energy Conversion and Management</i> , 2018, 171, 1476-1486.	9.2	66
23	Gas Diffusion Layers for PEM Fuel Cells. , 2018, , 695-727.		6
24	Development of a low temperature decal transfer method for the fabrication of proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 11813-11822.	7.1	44
25	A facile synthesis of high activity cube-like Pt/carbon composites for fuel cell application. <i>Frontiers in Energy</i> , 2017, 11, 245-253.	2.3	8
26	Investigation of catalytic vs reactant transport effect of catalyst layers on proton exchange membrane fuel cell performance. <i>Fuel</i> , 2017, 208, 321-328.	6.4	43
27	Stability study of ultra-low Pt thin film on TiO ₂ @C core-shell structure and TiO ₂ encapsulated in carbon nanospheres as cathode catalyst in PEMFC. <i>Fuel</i> , 2015, 150, 645-655.	6.4	29
28	Improved carbon nanostructures as a novel catalyst support in the cathode side of PEMFC: a critical review. <i>Carbon</i> , 2015, 94, 705-728.	10.3	145
29	The effect of low platinum loading on the efficiency of PEMFC's electrocatalysts supported on TiO ₂ @Nb, and SnO ₂ @Nb: An experimental comparison between active and stable conditions. <i>Energy Conversion and Management</i> , 2015, 103, 681-690.	9.2	25
30	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	79
31	Synthesis of high-surface-area hexagonal LaNi ₅ nanofibers via electrospinning. <i>Journal of Alloys and Compounds</i> , 2012, 541, 335-337.	5.5	11
32	Characterization and the hydrogen storage capacity of titania-coated electrospun boron nitride nanofibers. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 11237-11243.	7.1	17
33	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
34	The role of Al and Mg in the hydrogen storage of electrospun ZnO nanofibers. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 8388-8394.	7.1	27
35	Synthesis and characterization of cobalt-free Ba _{0.5} Sr _{0.5} Fe _{0.8} Cu _{0.2} O _{3-δ} perovskite oxide cathode nanofibers. <i>Journal of Alloys and Compounds</i> , 2011, 509, 9005-9009.	5.5	39
36	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