

# Soosan Rowshanzamir

## List of Publications by Citations

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63

papers

3,430

citations

27

h-index

58

g-index

64

ext. papers

3,842

ext. citations

6.4

avg, IF

5.79

L-index

#	Paper	IF	Citations
63	Review of the proton exchange membranes for fuel cell applications. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 9349-9384	6.7	1375
62	Subcritical water extraction of essential oils from coriander seeds ( <i>Coriandrum sativum</i> L.). <i>Journal of Food Engineering</i> , <b>2007</b> , 80, 735-740	6	160
61	Investigation of physical properties and cell performance of Nafion/TiO <sub>2</sub> nanocomposite membranes for high temperature PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 9252-9260	6.7	131
60	Castor oil transesterification reaction: A kinetic study and optimization of parameters. <i>Energy</i> , <b>2010</b> , 35, 4142-4148	7.9	100
59	Effects of operating parameters on performance of a proton exchange membrane fuel cell. <i>Journal of Power Sources</i> , <b>2006</b> , 161, 872-875	8.9	100
58	Synthesis methods of low-Pt-loading electrocatalysts for proton exchange membrane fuel cell systems. <i>Energy</i> , <b>2010</b> , 35, 3941-3957	7.9	93
57	Autothermal reforming of methane to synthesis gas: Modeling and simulation. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 1292-1300	6.7	89
56	Comprehensive investigation of physicochemical and electrochemical properties of sulfonated poly (ether ether ketone) membranes with different degrees of sulfonation for proton exchange membrane fuel cell applications. <i>Energy</i> , <b>2017</b> , 125, 614-628	7.9	86
55	Modelling and simulation of the steady-state and dynamic behaviour of a PEM fuel cell. <i>Energy</i> , <b>2010</b> , 35, 1633-1646	7.9	84
54	CFD simulation of PEM fuel cell performance: Effect of straight and serpentine flow fields. <i>Mathematical and Computer Modelling</i> , <b>2012</b> , 55, 1540-1557		75
53	High durability sulfonated poly (ether ether ketone)-ceria nanocomposite membranes for proton exchange membrane fuel cell applications. <i>Journal of Membrane Science</i> , <b>2018</b> , 556, 12-22	9.6	74
52	Nitrogen doped graphene supported palladium-cobalt as a promising catalyst for methanol oxidation reaction: Synthesis, characterization and electrocatalytic performance. <i>Energy</i> , <b>2016</b> , 113, 1162-1173	7.9	60
51	Hydrothermal Synthesis of Zirconia Nanoparticles from Commercial Zirconia. <i>Procedia Engineering</i> , <b>2012</b> , 42, 908-917		58
50	Investigation and optimization of physicochemical properties of sulfated zirconia/sulfonated poly (ether ether ketone) nanocomposite membranes for medium temperature proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 12293-12306	6.7	57
49	A new study on improving the physicochemical and electrochemical properties of SPEEK nanocomposite membranes for medium temperature proton exchange membrane fuel cells using different loading of zirconium oxide nanoparticles. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 500-508	6.7	54
48	Non-precious metal nanoparticles supported on nitrogen-doped graphene as a promising catalyst for oxygen reduction reaction: Synthesis, characterization and electrocatalytic performance. <i>Journal of Power Sources</i> , <b>2015</b> , 273, 981-989	8.9	44
47	Preparation, characterization and cell performance of durable nafion/SiO <sub>2</sub> hybrid membrane for high-temperature polymeric fuel cells. <i>Journal of Power Sources</i> , <b>2012</b> , 210, 350-357	8.9	44

46	Effect of ceria loading on performance and durability of sulfonated poly (ether ether ketone) nanocomposite membranes for proton exchange membrane fuel cell applications. <i>Journal of Membrane Science</i> , <b>2018</b> , 565, 342-357	9.6	43
45	The effect of sulfonated poly (ether ether ketone) as the electrode ionomer for self-humidifying nanocomposite proton exchange membrane fuel cells. <i>Energy</i> , <b>2015</b> , 82, 746-757	7.9	42
44	Effects of hot pressing conditions on the performance of Nafion membranes coated by ink-jet printing of Pt/MWCNTs electrocatalyst for PEMFCs. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 11290-11298	6.7	40
43	Study of hydrogen crossover and proton conductivity of self-humidifying nanocomposite proton exchange membrane based on sulfonated poly (ether ether ketone). <i>Energy</i> , <b>2016</b> , 94, 292-303	7.9	37
42	Recovery of water-soluble constituents of rose oil using simultaneous distillation-extraction. <i>Flavour and Fragrance Journal</i> , <b>2005</b> , 20, 555-558	2.5	37
41	Water transport through a PEM (proton exchange membrane) fuel cell in a seven-layer model. <i>Energy</i> , <b>2013</b> , 50, 220-231	7.9	35
40	Self-humidifying nanocomposite membranes based on sulfonated poly(ether ether ketone) and heteropolyacid supported Pt catalyst for fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 10940-10957	6.7	33
39	A comprehensive study on the stability and ion transport in cross-linked anion exchange membranes based on polysulfone for solid alkaline fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 17229-17241	6.7	32
38	Effect of Pt-Cs <sub>2.5</sub> H <sub>0.5</sub> PW <sub>12</sub> O <sub>40</sub> catalyst addition on durability of self-humidifying nanocomposite membranes based on sulfonated poly (ether ether ketone) for proton exchange membrane fuel cell applications. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 549-560	6.7	29
37	Comparison of nitrogen-doped graphene and carbon nanotubes as supporting material for iron and cobalt nanoparticle electrocatalysts toward oxygen reduction reaction in alkaline media for fuel cell applications. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 14665-14675	6.7	29
36	EXTRACTION OF VOLATILE OIL FROM CUMIN (CUMINUM CYMINUM L.) WITH SUPERHEATED WATER. <i>Journal of Food Process Engineering</i> , <b>2007</b> , 30, 255-266	2.4	26
35	Investigation of NaOH concentration effect in injected fuel on the performance of passive direct methanol alkaline fuel cell with modified cation exchange membrane. <i>Energy</i> , <b>2016</b> , 94, 589-599	7.9	25
34	Hydrothermal synthesis of Pt/MWCNTs nanocomposite electrocatalysts for proton exchange membrane fuel cell systems. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 5500-5511	6.7	22
33	Modeling and simulation of a proton exchange membrane fuel cell using computational fluid dynamics. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 21944-21954	6.7	21
32	Durability investigation and performance study of hydrothermal synthesized platinum-multi walled carbon nanotube nanocomposite catalyst for proton exchange membrane fuel cell. <i>Energy</i> , <b>2017</b> , 138, 696-705	7.9	19
31	Investigation of the effect of carbonaceous supports on the activity and stability of supported palladium catalysts for methanol electro-oxidation reaction. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 23070-23084	6.7	19
30	Preparation of low-platinum-loading electrocatalysts using electroless deposition method for proton exchange membrane fuel cell systems. <i>Electrochimica Acta</i> , <b>2010</b> , 56, 271-277	6.7	17
29	Effect of the Sulfated Zirconia Nanostructure Characteristics on Physicochemical and Electrochemical Properties of SPEEK Nanocomposite Membranes for PEM Fuel Cell Applications. <i>Macromolecular Materials and Engineering</i> , <b>2018</b> , 303, 1700570	3.9	16

28	Investigation of physicochemical and electrochemical properties of recast Nafion nanocomposite membranes using different loading of zirconia nanoparticles for proton exchange membrane fuel cell applications. <i>Materials Science for Energy Technologies</i> , <b>2018</b> , 1, 146-154	5.2	16
27	Preparation, characterization, and electrochemical properties investigation of recycled proton exchange membrane for fuel cell applications. <i>Energy</i> , <b>2018</b> , 161, 699-709	7.9	16
26	Electrooxidative Desulfurization of a Thiophene-Containing Model Fuel Using a Square Wave Potentiometry Technique. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 3292-3301	4.1	15
25	Optimal thermal treatment conditions for durability improvement of highly sulfonated poly(ether ether ketone) membrane for polymer electrolyte fuel cell applications. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 13441-13458	6.7	14
24	Investigation, modeling, and optimization of parameters affecting sulfonated polyether ether ketone membrane-electrode assembly. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 1096-1109	6.7	14
23	Simultaneous improvement of ionic conductivity and oxidative stability of sulfonated poly(ether ether ketone) nanocomposite proton exchange membrane for fuel cell application. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 2783-2800	4.5	11
22	Desulfurization of benzothiophene from model diesel fuel using experimental (dynamic electroreduction) and theoretical (DFT) approaches. <i>Separation and Purification Technology</i> , <b>2019</b> , 212, 505-514	8.3	11
21	Remediation of polycyclic aromatic hydrocarbons from soil using superheated water extraction. <i>Journal of Supercritical Fluids</i> , <b>2016</b> , 111, 129-134	4.2	10
20	Mass balance and water management for hydrogen-air fuel cells of the alkaline matrix type. <i>International Journal of Hydrogen Energy</i> , <b>1998</b> , 23, 499-506	6.7	10
19	Nitrogen doped graphene/cobalt-based catalyst layers of a PEM fuel cell: Performance evaluation and multi-objective optimization. <i>Korean Journal of Chemical Engineering</i> , <b>2017</b> , 34, 2978-2983	2.8	9
18	Application of a square wave potentiometry technique for electroreductive sulfur removal from a thiophenic model fuel. <i>International Journal of Environmental Science and Technology</i> , <b>2016</b> , 13, 2883-2892	3.3	9
17	Study of mechanical degradation of sulfonated poly (ether ether ketone) membrane using ex-situ hydrothermal cycles for polymer electrolyte fuel cell application. <i>Journal of Power Sources</i> , <b>2018</b> , 401, 73-84	8.9	9
16	Study of physicochemical characterization of potassium-doped Nafion117 membrane and performance evaluation of air-breathing fuel cell in different alkali-methanol solutions. <i>Energy</i> , <b>2016</b> , 113, 1090-1098	7.9	8
15	A CFD Model for Methane Autothermal Reforming on Ru/Al <sub>2</sub> O <sub>3</sub> Catalyst. <i>Procedia Engineering</i> , <b>2012</b> , 42, 2-24		8
14	Effect of sulfated metal oxides on the performance and stability of sulfonated poly (ether ether ketone) nanocomposite proton exchange membrane for fuel cell applications. <i>Reactive and Functional Polymers</i> , <b>2020</b> , 156, 104732	4.6	8
13	Experimental Evaluation of Effective Parameters for the Synthesis of Polysulfone-Based Anion Exchange Membrane. <i>Fuel Cells</i> , <b>2016</b> , 16, 135-149	2.9	8
12	Possibilities and Constraints of the Electrochemical Treatment of Thiophene on Low and High Oxidation Power Electrodes. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 1901-1909	4.1	7
11	Experimental and theoretical investigation of the removal organic pollutants from contaminated soils using superheated water. <i>Journal of Supercritical Fluids</i> , <b>2015</b> , 103, 55-60	4.2	6

10	Electrochemical performance and enhanced nitrate removal of homogeneous polysulfone-based anion exchange membrane applied in membrane capacitive deionization cell. <i>Desalination</i> , <b>2020</b> , 496, 114696	10.3	6
9	Vicious cycle during chemical degradation of sulfonated aromatic proton exchange membranes in the fuel cell application. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 8877-8891	4.5	5
8	A new immobilized-alkali H <sub>2</sub> /O <sub>2</sub> fuel cell. <i>Journal of Power Sources</i> , <b>2000</b> , 88, 262-268	8.9	5
7	Evaluation of the membrane efficiency of both Nafion and sulfonated poly (ether ether ketone) using electrochemical membrane reactor toward desulfurization of a model diesel fuel. <i>Chemical Engineering Research and Design</i> , <b>2020</b> , 153, 517-527	5.5	5
6	Self-Humidifying Proton Exchange Membranes for Fuel Cell Applications: Advances and Challenges. <i>Processes</i> , <b>2020</b> , 8, 1069	2.9	5
5	Superheated Water Extraction of Lavandula Latifolia Medik Volatiles: Comparison with Conventional Techniques. <i>Journal of Essential Oil Research</i> , <b>2008</b> , 20, 482-487	2.3	4
4	Synergistically enhanced nitrate removal by capacitive deionization with activated carbon/PVDF/polyaniline/ZrO <sub>2</sub> composite electrode. <i>Separation and Purification Technology</i> , <b>2021</b> , 274, 119108	8.3	3
3	Mechanical stress and strain investigation of sulfonated Poly(ether ether ketone) proton exchange membrane in fuel cells: A numerical study. <i>Renewable Energy</i> , <b>2022</b> , 184, 182-200	8.1	2
2	Current status of cross-linking and blending approaches for durability improvement of hydrocarbon-based fuel cell membranes. <i>International Journal of Hydrogen Energy</i> , <b>2022</b> , 47, 13460-13489	6.7	0
1	Electrochemical investigation of different electrodes toward the removal of non-basic nitrogen compound from model diesel fuel. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 894, 115358	4.1	