

# Hossein Pourrahmani

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

840  
citations

516710

16  
h-index

642732

23  
g-index

26  
all docs

26  
docs citations

26  
times ranked

471  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal optimization of shell and tube heat exchanger using porous baffles. Applied Thermal Engineering, 2020, 170, 115005.	6.0	72
2	Exergoeconomic optimization of a solar driven system with reverse osmosis desalination unit and phase change material thermal energy storages. Energy Conversion and Management, 2019, 199, 112042.	9.2	69
3	Multi-objective optimization and exergoeconomic analysis of a continuous solar-driven system with PCM for power, cooling and freshwater production. Energy Conversion and Management, 2020, 211, 112761.	9.2	68
4	Design optimization and thermal management of the PEMFC using artificial neural networks. Energy, 2019, 182, 443-459.	8.8	64
5	Exergoeconomic analysis and multi-objective optimization of a novel continuous solar-driven hydrogen production system assisted by phase change material thermal storage system. Energy, 2019, 189, 116170.	8.8	62
6	Sensitivity analysis and performance evaluation of the PEMFC using wave-like porous ribs. Applied Thermal Engineering, 2019, 150, 433-444.	6.0	61
7	Thermal management in PEMFCs: The respective effects of porous media in the gas flow channel. International Journal of Hydrogen Energy, 2019, 44, 3121-3137.	7.1	55
8	Multi-criteria optimization of a renewable hydrogen and freshwater production system using HDH desalination unit and thermoelectric generator. Energy Conversion and Management, 2020, 214, 112903.	9.2	50
9	Shape optimization of segmental porous baffles for enhanced thermo-hydraulic performance of shell-and-tube heat exchanger. Applied Thermal Engineering, 2020, 180, 115835.	6.0	45
10	Performance evaluation of an integrated hydrogen production system with LNG cold energy utilization. International Journal of Hydrogen Energy, 2018, 43, 22075-22087.	7.1	42
11	Performance evaluation of diesel engines (PEDE) for a diesel-biodiesel fueled CI engine using nano-particles additive. Energy Conversion and Management, 2019, 198, 111921.	9.2	38
12	Thermodynamic analysis of a tri-generation system using SOFC and HDH desalination unit. International Journal of Hydrogen Energy, 2021, , .	7.1	34
13	Electric vehicle charging station using fuel cell technology: Two different scenarios and thermodynamic analysis. Energy Reports, 2021, 7, 6955-6972.	5.1	25
14	The applications of Internet of Things in the automotive industry: A review of the batteries, fuel cells, and engines. Internet of Things (Netherlands), 2022, 19, 100579.	7.7	25
15	Evaluation Criterion of Proton Exchange Membrane (ECPEM) fuel cells considering inserted porous media inside the gas flow channel. Applied Thermal Engineering, 2022, 203, 117952.	6.0	22
16	A Review on the Long-Term Performance of Proton Exchange Membrane Fuel Cells: From Degradation Modeling to the Effects of Bipolar Plates, Sealings, and Contaminants. Energies, 2022, 15, 5081.	3.1	18
17	Water management of the proton exchange membrane fuel cells: Optimizing the effect of microstructural properties on the gas diffusion layer liquid removal. Energy, 2022, 256, 124712.	8.8	16
18	A New Evaluation Criterion for Optimizing the Mechanical Properties of Toughened Polypropylene/Silica Nanocomposites. Chinese Journal of Polymer Science (English Edition), 2020, 38, 877-887.	3.8	14

#	ARTICLE	IF	CITATIONS
19	Thermoelectric Generator as the Waste Heat Recovery Unit of Proton Exchange Membrane Fuel Cell: A Numerical Study. <i>Energies</i> , 2022, 15, 3018.	3.1	14
20	Performance Improvement and Two-Phase Flow Study of a Piezoelectric Micropump with Tesla Nozzle-Diffuser Microvalves. <i>Journal of Applied Fluid Mechanics</i> , 2019, 12, 341-350.	0.2	11
21	Fuel cell and battery technologies for a 800 kW ferry: two optimized scenarios. , 2022, 3, 100039.		9
22	The Application of Fuel-Cell and Battery Technologies in Unmanned Aerial Vehicles (UAVs): A Dynamic Study. <i>Batteries</i> , 2022, 8, 73.	4.5	9
23	The impacts of the gas diffusion layer contact angle on the water management of the proton exchange membrane fuel cells: Three-dimensional simulation and optimization. <i>International Journal of Energy Research</i> , 2022, 46, 16027-16040.	4.5	7
24	Poisoning Effects of Cerium Oxide (CeO <sub>2</sub> ) on the Performance of Proton Exchange Membrane Fuel Cells (PEMFCs). <i>ChemEngineering</i> , 2022, 6, 36.	2.4	5
25	Impregnation methods for quantitative analyses of the gas diffusion layer in proton exchange membrane fuel cells. , 2022, 3, 100035.		5
26	(Digital Presentation) Fuel Cell and Battery Technologies for a 800kW Ferry: Two Optimized Scenarios. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 216-216.	0.0	0