

Bowen Wang

List of Publications by Year in descending order

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25
papers

2,098
citations

567144

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677027

22
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26
all docs

26
docs citations

26
times ranked

953
citing authors

#	ARTICLE	IF	CITATIONS
1	A 1 + 1-D Multiphase Proton Exchange Membrane Fuel Cell Model for Real-Time Simulation. IEEE Transactions on Transportation Electrification, 2022, 8, 2928-2944.	5.3	21
2	Current density and temperature distribution measurement and homogeneity analysis for a large-area proton exchange membrane fuel cell. Energy, 2022, 239, 121922.	4.5	40
3	Combining proton and anion exchange membrane fuel cells for enhancing the overall performance and self-humidification. Chemical Engineering Journal, 2022, 428, 131969.	6.6	15
4	Operation characteristics of open-cathode proton exchange membrane fuel cell with different cathode flow fields. Sustainable Energy Technologies and Assessments, 2022, 49, 101681.	1.7	3
5	Numerical investigation of design and operating parameter effects on permeability-differentiated alkaline fuel cell with metal foam flow field. Applied Thermal Engineering, 2022, 207, 118183.	3.0	4
6	Green ammonia as a fuel. Science Bulletin, 2022, 67, 1530-1534.	4.3	16
7	Cell-level modeling of proton exchange membrane fuel cell. , 2021, , 181-235.		0
8	An Artificial Intelligence Solution for Predicting Short-Term Degradation Behaviors of Proton Exchange Membrane Fuel Cell. Applied Sciences (Switzerland), 2021, 11, 6348.	1.3	5
9	Designing the next generation of proton-exchange membrane fuel cells. Nature, 2021, 595, 361-369.	13.7	1,012
10	Transport phenomena in proton exchange membrane fuel cell. , 2021, , 25-65.		1
11	Machine learning analysis and prediction models of alkaline anion exchange membranes for fuel cells. Energy and Environmental Science, 2021, 14, 3965-3975.	15.6	29
12	Optimization of porous media flow field for proton exchange membrane fuel cell using a data-driven surrogate model. Energy Conversion and Management, 2020, 226, 113513.	4.4	39
13	Two-dimensional simulation of cold start processes for proton exchange membrane fuel cell with different hydrogen flow arrangements. International Journal of Hydrogen Energy, 2020, 45, 17795-17812.	3.8	29
14	Fundamentals, materials, and machine learning of polymer electrolyte membrane fuel cell technology. Energy and AI, 2020, 1, 100014.	5.8	228
15	AI-based optimization of PEM fuel cell catalyst layers for maximum power density via data-driven surrogate modeling. Energy Conversion and Management, 2020, 205, 112460.	4.4	111
16	Life cycle assessment of fuel cell, electric and internal combustion engine vehicles under different fuel scenarios and driving mileages in China. Energy, 2020, 198, 117365.	4.5	94
17	Multi-physics-resolved digital twin of proton exchange membrane fuel cells with a data-driven surrogate model. Energy and AI, 2020, 1, 100004.	5.8	115
18	Investigation of mechanical vibration effect on proton exchange membrane fuel cell cold start. International Journal of Hydrogen Energy, 2020, 45, 14528-14538.	3.8	19

#	ARTICLE	IF	CITATIONS
19	Effect of operating conditions on performance of proton exchange membrane fuel cell with anode recirculation. Energy Procedia, 2019, 158, 1829-1834.	1.8	10
20	A dot matrix and sloping baffle cathode flow field of proton exchange membrane fuel cell. Journal of Power Sources, 2019, 434, 226741.	4.0	70
21	Numerical analysis of operating conditions effects on PEMFC with anode recirculation. Energy, 2019, 173, 844-856.	4.5	64
22	Purge strategy optimization of proton exchange membrane fuel cell with anode recirculation. Applied Energy, 2018, 225, 1-13.	5.1	74
23	A quasi-2D transient model of proton exchange membrane fuel cell with anode recirculation. Energy Conversion and Management, 2018, 171, 1463-1475.	4.4	82
24	Transient investigation of passive alkaline membrane direct methanol fuel cell. Applied Thermal Engineering, 2016, 100, 1245-1258.	3.0	13
25	Deep Optimization of Catalyst Layer Composition via Data-Driven Machine Learning Approach. , 0, , .		0