Bowen Wang

List of Publications by Year
in descending order

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25	2,098	567144 15	677027 22
papers	citations	h-index	g-index

26	26	26	953
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Designing the next generation of proton-exchange membrane fuel cells. Nature, 2021, 595, 361-369.	13.7	1,012
2	Fundamentals, materials, and machine learning of polymer electrolyte membrane fuel cell technology. Energy and AI, 2020, 1, 100014.	5.8	228
3	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
4	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
5	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
6	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
7	Purge strategy optimization of proton exchange membrane fuel cell with anode recirculation. Applied Energy, 2018, 225, 1-13.	5.1	74
8	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
9	Numerical analysis of operating conditions effects on PEMFC with anode recirculation. Energy, 2019, 173, 844-856.	4.5	64
10	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
11	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
12	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
13	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
14	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
15	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
16	Green ammonia as a fuel. Science Bulletin, 2022, 67, 1530-1534.	4.3	16
17	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
18	Transient investigation of passive alkaline membrane direct methanol fuel cell. Applied Thermal Engineering, 2016, 100, 1245-1258.	3.0	13

#	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	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
21	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
22	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
23	Transport phenomena in proton exchange membrane fuel cell. , 2021, , 25-65.		1
24	Cell-level modeling of proton exchange membrane fuel cell. , 2021, , 181-235.		0
25	Deep Optimization of Catalyst Layer Composition via Data-Driven Machine Learning Approach. , 0, , .		0