

Xin Gao

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

650
citations

840776

11
h-index

940533

16
g-index

17
all docs

17
docs citations

17
times ranked

718
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review of PBI-based high temperature PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 21310-21344.	7.1	320
2	Numerical model of a thermoelectric generator with compact plate-fin heat exchanger for high temperature PEM fuel cell exhaust heat recovery. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 8490-8498.	7.1	65
3	High performance octahedral PtNi/C catalysts investigated from rotating disk electrode to membrane electrode assembly. <i>Nano Research</i> , 2019, 12, 281-287.	10.4	44
4	Pore-scale modeling of gas diffusion layers: Effects of compression on transport properties. <i>Journal of Power Sources</i> , 2021, 496, 229822.	7.8	44
5	Optimization of a thermoelectric generator subsystem for high temperature PEM fuel cell exhaust heat recovery. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 6637-6645.	7.1	36
6	Potential Usage of Thermoelectric Devices in a High-Temperature Polymer Electrolyte Membrane (PEM) Fuel Cell System: Two Case Studies. <i>Journal of Electronic Materials</i> , 2012, 41, 1838-1844.	2.2	23
7	Stochastically Modeled Gas Diffusion Layers: Effects of Binder and Polytetrafluoroethylene on Effective Gas Diffusivity. <i>Journal of the Electrochemical Society</i> , 2021, 168, 014514.	2.9	19
8	Theoretical, experimental and numerical diagnose of critical power point of thermoelectric generators. <i>Energy</i> , 2014, 78, 364-372.	8.8	17
9	Multiscale modeling of an angled gas diffusion layer for polymer electrolyte membrane fuel cells: Performance enhancing for aviation applications. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 20702-20714.	7.1	17
10	From rotating disk electrode to single cell: Exploration of PtNi/C octahedral nanocrystal as practical proton exchange membrane fuel cell cathode catalyst. <i>Journal of Power Sources</i> , 2018, 406, 118-127.	7.8	16
11	Thermal Management Optimization of a Thermoelectric-Integrated Methanol Evaporator Using a Compact CFD Modeling Approach. <i>Journal of Electronic Materials</i> , 2013, 42, 2035-2042.	2.2	15
12	Enhancing the Specific Power of a PEM Fuel Cell Powered UAV with a Novel Bean-Shaped Flow Field. <i>Energies</i> , 2021, 14, 2494.	3.1	12
13	An Experimental Study of the Effect of a Turbulence Grid on the Stack Performance of an Air-Cooled Proton Exchange Membrane Fuel Cell. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2020, 17, .	2.1	7
14	Modeling of corona discharge thrusters powered by PEM fuel cells: An investigation of potential synergies. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 31091-31104.	7.1	6
15	Safety considerations and time constant determined extended operations for fuel cell-powered aircrafts. <i>CEAS Aeronautical Journal</i> , 2021, 12, 767-775.	1.7	5
16	Improving the Performance of an Air-Cooled Fuel Cell Stack by a Turbulence Inducing Grid. <i>ECS Transactions</i> , 2018, 86, 77-87.	0.5	4