

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 | 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 |
| 2 | 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 |
| 3 | 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 |
| 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 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 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 | 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 |
| 12 | 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 |
| 13 | Theoretical, experimental and numerical diagnose of critical power point of thermoelectric generators. <i>Energy</i> , 2014, 78, 364-372. | 8.8 | 17 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |