

Diankai Qiu

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

946
citations

394421

19
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

598
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical failure and mitigation strategies for the membrane in a proton exchange membrane fuel cell. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 113, 109289.	16.4	93
2	Carbon-based coatings for metallic bipolar plates used in proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 6813-6843.	7.1	85
3	Electrical resistance and microstructure of typical gas diffusion layers for proton exchange membrane fuel cell under compression. <i>Applied Energy</i> , 2018, 231, 127-137.	10.1	76
4	A micro contact model for electrical contact resistance prediction between roughness surface and carbon fiber paper. <i>International Journal of Mechanical Sciences</i> , 2017, 124-125, 37-47.	6.7	62
5	Contact resistance prediction of proton exchange membrane fuel cell considering fabrication characteristics of metallic bipolar plates. <i>Energy Conversion and Management</i> , 2018, 169, 334-344.	9.2	55
6	In-situ measurement of temperature and humidity distribution in gas channels for commercial-size proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2019, 412, 717-724.	7.8	52
7	Structure failure of the sealing in the assembly process for proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 10217-10227.	7.1	49
8	Performance evaluation of commercial-size proton exchange membrane fuel cell stacks considering air flow distribution in the manifold. <i>Energy Conversion and Management</i> , 2020, 203, 112256.	9.2	49
9	Study on shape error effect of metallic bipolar plate on the GDL contact pressure distribution in proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 6762-6772.	7.1	48
10	Flow channel design for metallic bipolar plates in proton exchange membrane fuel cells: Experiments. <i>Energy Conversion and Management</i> , 2018, 174, 814-823.	9.2	47
11	Assembly design of proton exchange membrane fuel cell stack with stamped metallic bipolar plates. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 11559-11568.	7.1	44
12	Material behavior of rubber sealing for proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5465-5473.	7.1	39
13	Review on proton exchange membrane fuel cell stack assembly: Quality evaluation, assembly method, contact behavior and process design. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111660.	16.4	30
14	Contact behavior modelling and its size effect on proton exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2017, 365, 190-200.	7.8	29
15	Modeling and analysis of water droplet dynamics in the dead-ended anode gas channel for proton exchange membrane fuel cells. <i>Renewable Energy</i> , 2019, 138, 842-851.	8.9	26
16	An integrated model of the water transport in nonuniform compressed gas diffusion layers for PEMFC. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 13777-13785.	7.1	25
17	Analysis and improvement of flow distribution in manifold for proton exchange membrane fuel cell stacks. <i>Energy</i> , 2021, 226, 120427.	8.8	24
18	Investigation of the assembly for high-power proton exchange membrane fuel cell stacks through an efficient equivalent model. <i>Applied Energy</i> , 2020, 277, 115532.	10.1	23

#	ARTICLE	IF	CITATIONS
19	Investigation and optimization of the ultra-thin metallic bipolar plate multi-stage forming for proton exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2021, 484, 229298.	7.8	20
20	Channel Dimensional Error Effect of Stamped Bipolar Plates on the Characteristics of Gas Diffusion Layer Contact Pressure for Proton Exchange Membrane Fuel Cell Stacks. <i>Journal of Fuel Cell Science and Technology</i> , 2015, 12, .	0.8	17
21	Channel/rib patterns optimization of a proton exchange membrane fuel cell by combining down-the-channel performance model and genetic algorithm. <i>International Journal of Heat and Mass Transfer</i> , 2022, 183, 122235.	4.8	16
22	Optimization of entrance geometry and analysis of fluid distribution in manifold for high-power proton exchange membrane fuel cell stacks. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 22180-22191.	7.1	15
23	An Analytical Model for Contact Pressure Prediction Considering Dimensional Error of Stamped Bipolar Plate and Gas Diffusion Layer in Proton Exchange Membrane Fuel Cell Stack Assembly. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2016, 13, .	2.1	11
24	Study on the degradation mechanism of the frame for membrane electrode assembly in proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 36954-36968.	7.1	6
25	Dimensional tolerance analysis of proton exchange membrane fuel cells with metallic bipolar plates. <i>Journal of Power Sources</i> , 2021, 481, 228927.	7.8	5