Diankai Qiu

List of Publications by Year
in descending order

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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	Channel/rib patterns optimization of a proton exchange membrane fuel cell by combining down-the-channel performance model and genetic algorithm. International Journal of Heat and Mass Transfer, 2022, 183, 122235.	4.8	16
2	Optimization of entrance geometry and analysis of fluid distribution in manifold for high-power proton exchange membrane fuel cell stacks. International Journal of Hydrogen Energy, 2022, 47, 22180-22191.	7.1	15
3	Dimensional tolerance analysis of proton exchange membrane fuel cells with metallic bipolar plates. Journal of Power Sources, 2021, 481, 228927.	7.8	5
4	Investigation and optimization of the ultra-thin metallic bipolar plate multi-stage forming for proton exchange membrane fuel cell. Journal of Power Sources, 2021, 484, 229298.	7.8	20
5	Analysis and improvement of flow distribution in manifold for proton exchange membrane fuel cell stacks. Energy, 2021, 226, 120427.	8.8	24
6	Study on the degradation mechanism of the frame for membrane electrode assembly in proton exchange membrane fuel cell. International Journal of Hydrogen Energy, 2021, 46, 36954-36968.	7.1	6
7	Review on proton exchange membrane fuel cell stack assembly: Quality evaluation, assembly method, contact behavior and process design. Renewable and Sustainable Energy Reviews, 2021, 152, 111660.	16.4	30
8	Material behavior of rubber sealing for proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2020, 45, 5465-5473.	7.1	39
9	Performance evaluation of commercial-size proton exchange membrane fuel cell stacks considering air flow distribution in the manifold. Energy Conversion and Management, 2020, 203, 112256.	9.2	49
10	Investigation of the assembly for high-power proton exchange membrane fuel cell stacks through an efficient equivalent model. Applied Energy, 2020, 277, 115532.	10.1	23
11	Mechanical failure and mitigation strategies for the membrane in a proton exchange membrane fuel cell. Renewable and Sustainable Energy Reviews, 2019, 113, 109289.	16.4	93
12	An integrated model of the water transport in nonuniform compressed gas diffusion layers for PEMFC. International Journal of Hydrogen Energy, 2019, 44, 13777-13785.	7.1	25
13	Carbon-based coatings for metallic bipolar plates used in proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2019, 44, 6813-6843.	7.1	85
14	Modeling and analysis of water droplet dynamics in the dead-ended anode gas channel for proton exchange membrane fuel cells. Renewable Energy, 2019, 138, 842-851.	8.9	26
15	In-situ measurement of temperature and humidity distribution in gas channels for commercial-size proton exchange membrane fuel cells. Journal of Power Sources, 2019, 412, 717-724.	7.8	52
16	Electrical resistance and microstructure of typical gas diffusion layers for proton exchange membrane fuel cell under compression. Applied Energy, 2018, 231, 127-137.	10.1	76
17	Flow channel design for metallic bipolar plates in proton exchange membrane fuel cells: Experiments. Energy Conversion and Management, 2018, 174, 814-823.	9.2	47
18	Contact resistance prediction of proton exchange membrane fuel cell considering fabrication characteristics of metallic bipolar plates. Energy Conversion and Management, 2018, 169, 334-344.	9.2	55

#	Article	IF	Citations
19	A micro contact model for electrical contact resistance prediction between roughness surface and carbon fiber paper. International Journal of Mechanical Sciences, 2017, 124-125, 37-47.	6.7	62
20	Structure failure of the sealing in the assembly process for proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2017, 42, 10217-10227.	7.1	49
21	Contact behavior modelling and its size effect on proton exchange membrane fuel cell. Journal of Power Sources, 2017, 365, 190-200.	7.8	29
22	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. Journal of Electrochemical Energy Conversion and Storage, 2016, 13, .	2.1	11
23	Assembly design of proton exchange membrane fuel cell stack with stamped metallic bipolar plates. International Journal of Hydrogen Energy, 2015, 40, 11559-11568.	7.1	44
24	Channel Dimensional Error Effect of Stamped Bipolar Plates on the Characteristics of Gas Diffusion Layer Contact Pressure for Proton Exchange Membrane Fuel Cell Stacks. Journal of Fuel Cell Science and Technology, 2015, 12, .	0.8	17
25	Study on shape error effect of metallic bipolar plate on the GDL contact pressure distribution in proton exchange membrane fuel cell. International Journal of Hydrogen Energy, 2013, 38, 6762-6772.	7.1	48