Yanzhou Qin

List of Publications by Year in descending order

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147801 206112 2,508 61 31 48 h-index citations g-index papers 62 62 62 1390 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Toward alkaline-stable anion exchange membranes in fuel cells: cycloaliphatic quaternary ammonium-based anion conductors. Electrochemical Energy Reviews, 2022, 5, 348-400.	25.5	62
2	Multi-sub-inlets at cathode flow-field plate for current density homogenization and enhancement of PEM fuel cells in low relative humidity. Energy Conversion and Management, 2022, 252, 115069.	9.2	62
3	Water droplet detachment characteristics on surfaces of gas diffusion layers in PEMFCs. International Journal of Hydrogen Energy, 2022, 47, 10341-10351.	7.1	15
4	Delamination evolution of PEM fuel cell membrane/CL interface under asymmetric RH cycling and CL crack location. Applied Energy, 2022, 310, 118551.	10.1	19
5	Ex-situ experimental study on dynamic behaviors and detachment characteristics of liquid water in a transparent channel of PEMFC. Renewable Energy, 2022, 187, 1037-1049.	8.9	12
6	Three-dimensional numerical study of a cathode gas diffusion layer with a through/in plane synergetic gradient porosity distribution for PEM fuel cells. International Journal of Heat and Mass Transfer, 2022, 188, 122661.	4.8	50
7	Magnetic-field-oriented mixed-valence-stabilized ferrocenium anion-exchange membranes for fuel cells. Nature Energy, 2022, 7, 329-339.	39.5	60
8	Mass transport and performance of proton exchange membrane fuel cell considering the influence of porosity distribution of gas diffusion layer. International Journal of Green Energy, 2022, 19, 1503-1511.	3.8	9
9	Cost-effective Prussian blue analogue composite proton exchange membranes for low humidity fuel cell operation. Journal of Power Sources, 2022, 537, 231542.	7.8	9
10	Ionomer dispersion solvent influence on the microstructure of Co–N–C catalyst layers for anion exchange membrane fuel cell. Journal of Power Sources, 2021, 484, 229259.	7.8	25
11	Evaluating the effective diffusion coefficient of reactant gas in the catalyst layer of PEMFC using the fractal method considering the pore size distribution. Nano Select, 2021, 2, 116-120.	3.7	6
12	Bio-inspired design of an auxiliary fishbone-shaped cathode flow field pattern for polymer electrolyte membrane fuel cells. Energy Conversion and Management, 2021, 227, 113588.	9.2	53
13	Analysis of a combined proton exchange membrane fuel cell and organic Rankine cycle system for waste heat recovery. International Journal of Green Energy, 2021, 18, 271-281.	3.8	12
14	Modeling the membrane/CL delamination with the existence of CL crack under RH cycling conditions of PEM fuel cell. International Journal of Hydrogen Energy, 2021, 46, 8722-8735.	7.1	16
15	Self-adjusting anode catalyst layer for smart water management in anion exchange membrane fuel cells. Cell Reports Physical Science, 2021, 2, 100377.	5.6	7
16	Effect of the porosity distribution on the liquid water transport in the gas diffusion layer of PEMFC. Electrochimica Acta, 2021, 371, 137814.	5.2	42
17	Droplet dynamic behaviors on gas diffusion layer surface of various wettabilities in a PEMFC gas flow channel. International Journal of Green Energy, 2021, 18, 1369-1382.	3.8	10
18	Numerical investigation of water droplet impact on PEM fuel cell flow channel surface. Renewable Energy, 2021, 168, 750-763.	8.9	27

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19	Durability enhancement of proton exchange membrane fuel cells by ferrocyanide or ferricyanide additives. Journal of Membrane Science, 2021, 629, 119282.	8.2	39
20	Numerical simulation of hydrogen filling process in novel high-pressure microtube storage device. International Journal of Hydrogen Energy, 2021, 46, 36859-36871.	7.1	6
21	Numerical investigation of water droplet removal characteristics in novel block channels of PEMFC using dynamic wettability model. International Journal of Hydrogen Energy, 2021, 46, 36890-36902.	7.1	33
22	Effect of micro-porous layer on PEM fuel cells performance: Considering the spatially variable properties. International Journal of Heat and Mass Transfer, 2021, 178, 121592.	4.8	14
23	Droplet dynamic characteristics on PEM fuel cell cathode gas diffusion layer with gradient pore size distribution. Renewable Energy, 2021, 178, 864-874.	8.9	34
24	Performance analysis and optimization of a PEMFC-CAORC system based on 3D construction method of thermodynamic cycle. Energy Conversion and Management, 2021, 247, 114730.	9.2	13
25	Multi-scale study on bifunctional Co/Fe–N–C cathode catalyst layers with high active site density for the oxygen reduction reaction. Applied Catalysis B: Environmental, 2021, 299, 120656.	20.2	58
26	Modelling of mechanical microstructure changes in the catalyst layer of a polymer electrolyte membrane fuel cell. International Journal of Hydrogen Energy, 2020, 45, 29904-29916.	7.1	22
27	Influence of corner structure of fuel cell serpentine channel on water removal. International Journal of Hydrogen Energy, 2020, 45, 29812-29823.	7.1	21
28	Thermodynamic modeling and exergy analysis of proton exchange membrane fuel cell power system. International Journal of Hydrogen Energy, 2020, 45, 29799-29811.	7.1	32
29	Numerical simulation of liquid water emerging and transport in the flow channel of PEMFC using the volume of fluid method. International Journal of Hydrogen Energy, 2020, 45, 29861-29873.	7.1	45
30	Power management optimization in plug-in hybrid electric vehicles subject to uncertain driving cycles. ETransportation, 2020, 3, 100029.	14.8	16
31	Oriented proton-conductive nano-sponge-facilitated polymer electrolyte membranes. Energy and Environmental Science, 2020, 13, 297-309.	30.8	66
32	Synergetic electrochemical HNO3 reduction on the activated-CFP supported nano-Pt electrodes. Journal of Electroanalytical Chemistry, 2020, 869, 114182.	3.8	4
33	Quantitative analysis of trapezoid baffle block sloping angles on oxygen transport and performance of proton exchange membrane fuel cell. Applied Energy, 2020, 271, 115257.	10.1	76
34	Thermodynamic modeling and analysis of a novel PEMFC-ORC combined power system. Energy Conversion and Management, 2020, 217, 112998.	9.2	57
35	Numerical and experimental investigation of baffle plate arrangement on proton exchange membrane fuel cell performance. Journal of Power Sources, 2020, 457, 228034.	7.8	110
36	Mass Transfer in a Co/N/C Catalyst Layer for the Anion Exchange Membrane Fuel Cell. ACS Applied Materials & Distribution (1988).	8.0	26

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37	Effects of needle orientation and gas velocity on water transport and removal in a modified PEMFC gas flow channel having a hydrophilic needle. International Journal of Energy Research, 2019, 43, 2538-2549.	4.5	37
38	Hierarchically Porous Coâ^'Nâ^'C Cathode Catalyst Layers for Anion Exchange Membrane Fuel Cells. ChemSusChem, 2019, 12, 4165-4169.	6.8	34
39	lonomer migration within PEMFC catalyst layers induced by humidity changes. Electrochemistry Communications, 2019, 109, 106590.	4.7	46
40	Contact angle hysteresis of a water droplet on a hydrophobic fuel cell surface. Journal of Colloid and Interface Science, 2019, 545, 231-241.	9.4	38
41	Effect of humidity and thermal cycling on the catalyst layer structural changes in polymer electrolyte membrane fuel cells. Energy Conversion and Management, 2019, 189, 24-32.	9.2	55
42	Magnetic field alignment of stable proton-conducting channels in an electrolyte membrane. Nature Communications, 2019, 10, 842.	12.8	123
43	Design of Pt-C/Fe-N-S-C cathode dual catalyst layers for proton exchange membrane fuel cells under low humidity. Electrochimica Acta, 2019, 296, 450-457.	5.2	30
44	Influence of sloping baffle plates on the mass transport and performance of PEMFC. International Journal of Energy Research, 2019, 43, 2643-2655.	4.5	34
45	Modelling of effect of pressure on co-electrolysis of water and carbon dioxide in solid oxide electrolysis cell. International Journal of Hydrogen Energy, 2019, 44, 3456-3469.	7.1	25
46	Modeling of liquid water transport in a proton exchange membrane fuel cell gas flow channel with dynamic wettability. International Journal of Energy Research, 2018, 42, 3315-3327.	4.5	18
47	Numerical investigation on the characteristics of mass transport and performance of PEMFC with baffle plates installed in the flow channel. International Journal of Hydrogen Energy, 2018, 43, 8048-8062.	7.1	146
48	Three-dimensional modeling of pressure effect on operating characteristics and performance of solid oxide fuel cell. International Journal of Hydrogen Energy, 2018, 43, 20059-20076.	7.1	41
49	In-situ electrochemical activation of carbon fiber paper for the highly efficient electroreduction of concentrated nitric acid. Electrochimica Acta, 2018, 291, 328-334.	5.2	23
50	Humidification strategy for polymer electrolyte membrane fuel cells – A review. Applied Energy, 2018, 230, 643-662.	10.1	148
51	Modeling and design of PEM fuel cell stack based on a flow network method. Applied Thermal Engineering, 2018, 144, 411-423.	6.0	36
52	Water Transport and Removal in PEMFC Gas Flow Channel with Various Water Droplet Locations and Channel Surface Wettability. Energies, 2018, 11, 880.	3.1	18
53	Study on the operating pressure effect on the performance of a proton exchange membrane fuel cell power system. Energy Conversion and Management, 2017, 142, 357-365.	9.2	85
54	Numerical simulation of gas liquid two-phase flow in anode channel of low-temperature fuel cells. International Journal of Hydrogen Energy, 2017, 42, 3250-3258.	7.1	57

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#	Article	IF	CITATION
55	Numerical investigation of an ejector for anode recirculation in proton exchange membrane fuel cell system. Energy Conversion and Management, 2016, 126, 1106-1117.	9.2	86
56	Effective removal and transport of water in a PEM fuel cell flow channel having a hydrophilic plate. Applied Energy, 2014, 113, 116-126.	10.1	114
57	Numerical investigation of water dynamics in a novel proton exchange membrane fuel cell flow channel. Journal of Power Sources, 2013, 222, 150-160.	7.8	55
58	Effect of wettability on water removal from the gas diffusion layer surface in a novel proton exchange membrane fuel cell flow channel. International Journal of Hydrogen Energy, 2013, 38, 12879-12885.	7.1	34
59	Numerical investigation of water droplet dynamics in a PEMFC microchannel. , 2011, , .		0
60	Sulfonated polyimides with flexible aliphatic side chains for polymer electrolyte fuel cells. Journal of Membrane Science, 2011, 367, 211-219.	8.2	56
61	Ex-situ experimental study on extraction of droplet dynamic parameters based on droplet shape in PEMFC. International Journal of Green Energy, 0 , 1 -8.	3.8	1