

Bing Li

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

3,804
citations

201658

27
h-index

133244

59
g-index

60
all docs

60
docs citations

60
times ranked

5722
citing authors

#	ARTICLE	IF	CITATIONS
1	Study on the growth of platinum nanowires as cathode catalysts in proton exchange membrane fuel cells. <i>Frontiers of Chemical Science and Engineering</i> , 2022, 16, 364-375.	4.4	6
2	Droplets dynamics theory and micro-flow field experiments of improving self-humidifying feature and maximum power density in fuel cells. <i>Chemical Engineering Journal</i> , 2022, 429, 131974.	12.7	9
3	Experimental study of the influence of dynamic load cycle and operating parameters on the durability of PEMFC. <i>Energy</i> , 2022, 239, 122356.	8.8	48
4	Study on the thermal transient of cathode catalyst layer in proton exchange membrane fuel cell under dynamic loading with a two-dimensional model. <i>Chemical Engineering Journal</i> , 2022, 433, 133667.	12.7	4
5	Investigation of the thermal responses under gas channel and land inside proton exchange membrane fuel cell with assembly pressure. <i>Applied Energy</i> , 2022, 308, 118377.	10.1	11
6	Degradation analysis of the core components of metal plate proton exchange membrane fuel cell stack under dynamic load cycles. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 7432-7442.	7.1	6
7	A High-Durability Graphitic Black Pearl Supported Pt Catalyst for a Proton Exchange Membrane Fuel Cell Stack. <i>Membranes</i> , 2022, 12, 301.	3.0	3
8	Durability degradation mechanism and consistency analysis for proton exchange membrane fuel cell stack. <i>Applied Energy</i> , 2022, 314, 119020.	10.1	29
9	Influence of Degassing Treatment on the Ink Properties and Performance of Proton Exchange Membrane Fuel Cells. <i>Membranes</i> , 2022, 12, 541.	3.0	2
10	Effect of ionomer content on cathode catalyst layer for PEMFC via molecular dynamics simulations and experiments. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 23335-23347.	7.1	16
11	The Controllable Design of Catalyst Inks to Enhance PEMFC Performance: A Review. <i>Electrochemical Energy Reviews</i> , 2021, 4, 67-100.	25.5	79
12	Understanding the functions and modifications of interfaces in membrane electrode assemblies of proton exchange membrane fuel cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15111-15139.	10.3	34
13	Advanced Reversal Tolerant Anode in Proton Exchange Membrane Fuel Cells: Study on the Attenuation Mechanism during Fuel Starvation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2455-2461.	8.0	17
14	Enhanced PEMFC durability with graphitized carbon black cathode catalyst supports under accelerated stress testing. <i>RSC Advances</i> , 2021, 11, 19417-19425.	3.6	11
15	Mechanism and Model for Optimizing Polytetrafluoroethylene Distribution to Improve the Electrical and Thermal Conductivity of Treated Carbon Fiber Paper in Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14207-14220.	8.0	14
16	Numerical analysis of static and dynamic heat transfer behaviors inside proton exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2021, 488, 229419.	7.8	21
17	Performance degradation and process engineering of the 10kW proton exchange membrane fuel cell stack. <i>Energy</i> , 2021, 219, 119623.	8.8	41
18	Research progress of heat transfer inside proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2021, 492, 229613.	7.8	30

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19	Graph theory model and mechanism analysis of carbon fiber paper conductivity in fuel cell based on physical structure. <i>Journal of Power Sources</i> , 2021, 491, 229546.	7.8	16
20	Effect of Dispersion Solvents and Ionomers on the Rheology of Catalyst Inks and Catalyst Layer Structure for Proton Exchange Membrane Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 27119-27128.	8.0	16
21	A novel hierarchical porous carbon derived from durian shell as enhanced sulfur carrier for high performance Li-S batteries. <i>Journal of Electroanalytical Chemistry</i> , 2021, 893, 115306.	3.8	15
22	Influence of the dispersion state of ionomer on the dispersion of catalyst ink and the construction of catalyst layer. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 33300-33313.	7.1	16
23	Simple numerical simulation of catalyst inks dispersion in proton exchange membrane fuel cell by the lattice Boltzmann method. <i>Physics of Fluids</i> , 2021, 33, 115116.	4.0	0
24	Performance degradation of 1kW proton exchange membrane fuel cell stack using graphitized carbon supported Pt nanoparticle catalyst. <i>Journal of Power Sources</i> , 2020, 477, 228980.	7.8	15
25	Highly active and durable carbon support Pt-rare earth catalyst for proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 27291-27298.	7.1	15
26	Biomass-derived activated carbon/sulfur composites as cathode electrodes for Li-S batteries by reducing the oxygen content. <i>RSC Advances</i> , 2020, 10, 2823-2829.	3.6	18
27	Efficient synthesis of Pt-Co nanowires as cathode catalysts for proton exchange membrane fuel cells. <i>RSC Advances</i> , 2020, 10, 6287-6296.	3.6	26
28	Preparation of a Graphitized-Carbon-Supported PtNi Octahedral Catalyst and Application in a Proton-Exchange Membrane Fuel Cell. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7047-7056.	8.0	23
29	Highly efficient, cell reversal resistant PEMFC based on PtNi/C octahedral and OER composite catalyst. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 8930-8940.	7.1	29
30	High-Repetitive Reversal Tolerant Performance of Proton-Exchange Membrane Fuel Cell by Designing a Suitable Anode. <i>ACS Omega</i> , 2020, 5, 10099-10105.	3.5	26
31	Oxygen doped activated carbon/SnO ₂ nanohybrid for high performance lithium-ion capacitor. <i>Journal of Electroanalytical Chemistry</i> , 2019, 850, 113398.	3.8	4
32	Optimized synthesis of banana peel derived porous carbon and its application in lithium sulfur batteries. <i>Materials Research Bulletin</i> , 2019, 112, 269-280.	5.2	33
33	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
34	A self-assembled silicon/phenolic resin-based carbon core-shell nanocomposite as an anode material for lithium-ion batteries. <i>RSC Advances</i> , 2018, 8, 3477-3482.	3.6	23
35	Mangosteen peel-derived porous carbon: synthesis and its application in the sulfur cathode for lithium sulfur battery. <i>Journal of Materials Science</i> , 2018, 53, 11062-11077.	3.7	51
36	Electrode Materials, Electrolytes, and Challenges in Nonaqueous Lithium-Ion Capacitors. <i>Advanced Materials</i> , 2018, 30, e1705670.	21.0	334

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37	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
38	Preparation optimization and single cell application of PtNi/C octahedral catalyst with enhanced ORR performance. <i>Electrochimica Acta</i> , 2018, 288, 126-133.	5.2	30
39	Preparation of an octahedral PtNi/CNT catalyst and its application in high durability PEMFC cathodes. <i>RSC Advances</i> , 2018, 8, 18381-18387.	3.6	37
40	Nanoreactor of Nickel-Containing Carbon Shells as Oxygen Reduction Catalyst. <i>Advanced Materials</i> , 2017, 29, 1605083.	21.0	64
41	Porous Coconut Shell Carbon Offering High Retention and Deep Lithiation of Sulfur for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33855-33862.	8.0	107
42	A novel mangosteen peels derived hierarchical porous carbon for lithium sulfur battery. <i>Materials Letters</i> , 2017, 209, 594-597.	2.6	27
43	Proton Exchange Membrane Fuel Cell Reversal: A Review. <i>Catalysts</i> , 2016, 6, 197.	3.5	98
44	Improved Electrochemical Performance of Biomass-Derived Nanoporous Carbon/Sulfur Composites Cathode for Lithium-Sulfur Batteries by Nitrogen Doping. <i>Electrochimica Acta</i> , 2016, 202, 131-139.	5.2	49
45	Highly active and durable Pt-Co nanowire networks catalyst for the oxygen reduction reaction in PEMFCs. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 18592-18601.	7.1	45
46	Activated Carbon from Biomass Transfer for High-Energy Density Lithium-Ion Supercapacitors. <i>Advanced Energy Materials</i> , 2016, 6, 1600802.	19.5	229
47	Recent advances in Pt-based octahedral nanocrystals as high performance fuel cell catalysts. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11559-11581.	10.3	54
48	Nitrogen-doped activated carbon for a high energy hybrid supercapacitor. <i>Energy and Environmental Science</i> , 2016, 9, 102-106.	30.8	910
49	Hollow carbon nanospheres/silicon/alumina core-shell film as an anode for lithium-ion batteries. <i>Scientific Reports</i> , 2015, 5, 7659.	3.3	85
50	Leaf Vein-Inspired Nanochanneled Graphene Film for Highly Efficient Micro-Supercapacitors. <i>Advanced Energy Materials</i> , 2015, 5, 1500003.	19.5	69
51	The durability of carbon supported Pt nanowire as novel cathode catalyst for a 1.5 kW PEMFC stack. <i>Applied Catalysis B: Environmental</i> , 2015, 162, 133-140.	20.2	56
52	Carbon-supported Pt nanowire as novel cathode catalysts for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2014, 262, 488-493.	7.8	39
53	Carbon supported Ir nanoparticles modified and dealloyed with M (M = V, Co, Ni and Ti) as anode catalysts for polymer electrolyte fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 5813-5822.	7.1	23
54	Asymmetric Supercapacitors Based on Graphene/MnO ₂ Nanospheres and Graphene/MoO ₃ Nanosheets with High Energy Density. <i>Advanced Functional Materials</i> , 2013, 23, 5074-5083.	14.9	638

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55	New non-platinum Ir-V-Mo electro-catalyst, catalytic activity and CO tolerance in hydrogen oxidation reaction. International Journal of Hydrogen Energy, 2012, 37, 18843-18850.	7.1	11
56	Highly active Pt-Ru nanowire network catalysts for the methanol oxidation reaction. Catalysis Communications, 2012, 18, 51-54.	3.3	57
57	The application of Ir-V/C catalyst as a durable anode catalyst for a 1.5kW proton exchange membrane fuel cell stack. Journal of Power Sources, 2012, 199, 68-74.	7.8	6
58	Effect of driving cycle on the performance of PEM fuel cell and microstructure of membrane electrode assembly. International Journal of Hydrogen Energy, 2010, 35, 2814-2819.	7.1	27
59	Effect of metal particle size and Nafion content on performance of MEA using Ir-V/C as anode catalyst. International Journal of Hydrogen Energy, 2010, 35, 5528-5538.	7.1	23
60	Synthesis of a highly active carbon-supported Ir-V/C catalyst for the hydrogen oxidation reaction in PEMFC. Electrochimica Acta, 2009, 54, 5614-5620.	5.2	19