

Jiantao Fan

List of Publications by Year in descending order

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32
papers

1,644
citations

430874

18
h-index

395702

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docs citations

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times ranked

1537
citing authors

#	ARTICLE	IF	CITATIONS
1	IrO _x Supported onto Niobium-Doped Titanium Dioxide as an Anode Reversal Tolerant Electrocatalyst for Proton Exchange Membrane Fuel Cells. ACS Applied Energy Materials, 2022, 5, 3259-3268.	5.1	7
2	Expanded polytetrafluoroethylene functionalized with free radical scavengers and hydrophilic groups for superior chemical stability of proton exchange membranes. International Journal of Hydrogen Energy, 2022, 47, 18109-18121.	7.1	6
3	Pt atoms on doped carbon nanosheets with ultrahigh N content as a superior bifunctional catalyst for hydrogen evolution/oxidation. Sustainable Energy and Fuels, 2021, 5, 532-539.	4.9	12
4	Insights into electrochemical hydrogen compressor operating parameters and membrane electrode assembly degradation mechanisms. Journal of Power Sources, 2021, 484, 229249.	7.8	18
5	A self-humidifying proton exchange membrane embedded with phosphonic acid-functionalized mesoporous silica nanoparticles that has excellent dispersion and water retention. Sustainable Energy and Fuels, 2021, 5, 230-245.	4.9	14
6	Benchmarking Phases of Ruthenium Dichalcogenides for Electrocatalysis of Hydrogen Evolution: Theoretical and Experimental Insights. Small, 2021, 17, e2007333.	10.0	35
7	Novel Proton Exchange Membrane with Long-Range Acid-Base-Pair Proton Transfer Pathways Based on Functionalized Polyethyleneimine. ACS Sustainable Chemistry and Engineering, 2021, 9, 3963-3974.	6.7	16
8	Bridging the gap between highly active oxygen reduction reaction catalysts and effective catalyst layers for proton exchange membrane fuel cells. Nature Energy, 2021, 6, 475-486.	39.5	252
9	Insight into the Alkaline Stability of N-Heterocyclic Ammonium Groups for Anion-Exchange Polyelectrolytes. Angewandte Chemie - International Edition, 2021, 60, 19272-19280.	13.8	85
10	Insight into the Alkaline Stability of N-Heterocyclic Ammonium Groups for Anion-Exchange Polyelectrolytes. Angewandte Chemie, 2021, 133, 19421-19429.	2.0	15
11	Mitigation of chemical degradation in perfluorosulfonic acid proton exchange membrane using regenerable hindered amine functionalized carbon quantum dots. Journal of Membrane Science, 2021, 636, 119614.	8.2	10
12	Study of failure mechanisms of the reversal tolerant fuel cell anode via novel in-situ measurements. International Journal of Hydrogen Energy, 2020, 45, 996-1007.	7.1	19
13	Study of relative humidity on durability of the reversal tolerant proton exchange membrane fuel cell anode using a segmented cell. Journal of Power Sources, 2020, 449, 227542.	7.8	24
14	Research progress of catalyst layer and interlayer interface structures in membrane electrode assembly (MEA) for proton exchange membrane fuel cell (PEMFC) system. ETransportation, 2020, 5, 100075.	14.8	95
15	Electrochemical Compression Technologies for High-Pressure Hydrogen: Current Status, Challenges and Perspective. Electrochemical Energy Reviews, 2020, 3, 690-729.	25.5	56
16	A Novel Approach to Fabricate Membrane Electrode Assembly by Directly Coating the Nafion Ionomer on Catalyst Layers for Proton-Exchange Membrane Fuel Cells. ACS Sustainable Chemistry and Engineering, 2020, 8, 9803-9812.	6.7	37
17	An <i>in situ</i> cross-linked vinylphosphonic acid-modified aminosilicon oxide gel electrolyte for proton exchange membrane fuel cells. Sustainable Energy and Fuels, 2020, 4, 2859-2868.	4.9	6
18	An effective strategy to tune the oxygen vacancy of pyrochlore oxides for electrochemical energy storage and conversion systems. Chemical Engineering Journal, 2020, 395, 124428.	12.7	23

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19	Investigation of three system shut-down strategies alongside optimization suggestion for proton exchange membrane fuel cells via in-situ measurements. <i>International Journal of Green Energy</i> , 2020, 17, 157-170.	3.8	1
20	Poly-hydroxyethylidene-1,1-diphosphonic acid (PHEDP) as a highly effective water-retentive and proton-conductive material for low-humidity proton exchange membranes. <i>Journal of Membrane Science</i> , 2020, 606, 118144.	8.2	8
21	Mo modulation effect on the hydrogen binding energy of hexagonal-close-packed Ru for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2780-2786.	10.3	53
22	Poly(bis-arylimidazoliums) possessing high hydroxide ion exchange capacity and high alkaline stability. <i>Nature Communications</i> , 2019, 10, 2306.	12.8	239
23	Tungsten Carbide Encapsulated in Grape-Like N-Doped Carbon Nanospheres: One-Step Facile Synthesis for Low-Cost and Highly Active Electrocatalysts in Proton Exchange Membrane Water Electrolyzers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25123-25132.	8.0	37
24	Sterically-encumbered ionenes as hydroxide ion-conducting polymer membranes. <i>Current Opinion in Electrochemistry</i> , 2019, 18, 99-105.	4.8	21
25	Scalable Synthesis of a Ruthenium-Based Electrocatalyst as a Promising Alternative to Pt for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32171-32179.	8.0	33
26	Cationic Polyelectrolytes, Stable in 10 M KOH _{aq} at 100 Å°C. <i>ACS Macro Letters</i> , 2017, 6, 1089-1093.	4.8	140
27	Hexamethyl-p-terphenyl poly(benzimidazolium): a universal hydroxide-conducting polymer for energy conversion devices. <i>Energy and Environmental Science</i> , 2016, 9, 2130-2142.	30.8	213
28	Montmorillonite Modified by Cationic and Nonionic Surfactants as High-Performance Fluid-Loss-Control Additive in Oil-Based Drilling Fluids. <i>Journal of Dispersion Science and Technology</i> , 2015, 36, 569-576.	2.4	30
29	Layered double hydroxideâ€“polyphosphazene-based ionomer hybrid membranes with electric field-aligned domains for hydroxide transport. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8376.	10.3	44
30	Preparation of chitosanâ€“based flocculant for high density waste drilling mud solidâ€“liquid separation. <i>Journal of Applied Polymer Science</i> , 2012, 125, 2646-2651.	2.6	14
31	Preparation of a new inorganicâ€“organic composite flocculant used in solidâ€“liquid separation for waste drilling fluid. <i>Chemical Engineering Journal</i> , 2011, 171, 350-356.	12.7	72
32	Preparation of High Effective Flocculant for High Density Waste Drilling Mud. <i>Journal of Environmental Protection</i> , 2010, 01, 179-182.	0.7	8