

Xiong Peng

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

2,111
citations

236925

25
h-index

454955

30
g-index

30
all docs

30
docs citations

30
times ranked

1699
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Supporting Electrolyte on Hydroxide Exchange Membrane Water Electrolysis Performance: Catholyte. <i>Journal of the Electrochemical Society</i> , 2022, 169, 024510.	2.9	15
2	Performance and Durability of Proton Exchange Membrane Vapor-Fed Unitized Regenerative Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2022, 169, 054514.	2.9	6
3	Nanoporous Iridium Nanosheets for Polymer Electrolyte Membrane Electrolysis. <i>Advanced Energy Materials</i> , 2021, 11, 2101438.	19.5	40
4	Influence of Supporting Electrolyte on Hydroxide Exchange Membrane Water Electrolysis Performance: Anolyte. <i>Journal of the Electrochemical Society</i> , 2021, 168, 084512.	2.9	28
5	Insights into Interfacial and Bulk Transport Phenomena Affecting Proton Exchange Membrane Water Electrolyzer Performance at Ultra-Low Iridium Loadings. <i>Advanced Science</i> , 2021, 8, e2102950.	11.2	41
6	Understanding how single-atom site density drives the performance and durability of PGM-free Fe-N-C cathodes in anion exchange membrane fuel cells. <i>Materials Today Advances</i> , 2021, 12, 100179.	5.2	18
7	The Importance of Water Transport in High Conductivity and High-Power Alkaline Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2020, 167, 054501.	2.9	132
8	Rational Synthesis of Metallo-Cations Toward Redox- and Alkaline-Stable Metallo-Polyelectrolytes. <i>Journal of the American Chemical Society</i> , 2020, 142, 1083-1089.	13.7	91
9	Using operando techniques to understand and design high performance and stable alkaline membrane fuel cells. <i>Nature Communications</i> , 2020, 11, 3561.	12.8	113
10	Pathway to Complete Energy Sector Decarbonization with Available Iridium Resources using Ultralow Loaded Water Electrolyzers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 52701-52712.	8.0	52
11	Hierarchical electrode design of highly efficient and stable unitized regenerative fuel cells (URFCs) for long-term energy storage. <i>Energy and Environmental Science</i> , 2020, 13, 4872-4881.	30.8	43
12	Supported Oxygen Evolution Catalysts by Design: Toward Lower Precious Metal Loading and Improved Conductivity in Proton Exchange Membrane Water Electrolyzers. <i>ACS Catalysis</i> , 2020, 10, 13125-13135.	11.2	33
13	Low-Temperature Lithium Plating/Corrosion Hazard in Lithium-Ion Batteries: Electrode Rippling, Variable States of Charge, and Thermal and Nonthermal Runaway. <i>ACS Applied Energy Materials</i> , 2020, 3, 3653-3664.	5.1	37
14	A low temperature unitized regenerative fuel cell realizing 60% round trip efficiency and 10 ⁵ cycles of durability for energy storage applications. <i>Energy and Environmental Science</i> , 2020, 13, 2096-2105.	30.8	57
15	Using nanoconfinement to inhibit the degradation pathways of conversion-metal oxide anodes for highly stable fast-charging Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2712-2727.	10.3	32
16	High Performance FeNC and Mn-oxide/FeNC Layers for AEMFC Cathodes. <i>Journal of the Electrochemical Society</i> , 2020, 167, 134505.	2.9	49
17	Quantifying and elucidating the effect of CO ₂ on the thermodynamics, kinetics and charge transport of AEMFCs. <i>Energy and Environmental Science</i> , 2019, 12, 2806-2819.	30.8	74
18	Composite Poly(norbornene) Anion Conducting Membranes for Achieving Durability, Water Management and High Power (3.4 ÅW/cm ²) in Hydrogen/Oxygen Alkaline Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2019, 166, F637-F644.	2.9	172

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19	Poly(olefin)-Based Anion Exchange Membranes Prepared Using Ziegler-Natta Polymerization. <i>Macromolecules</i> , 2019, 52, 4030-4041.	4.8	92
20	High Performance Anion Exchange Membrane Fuel Cells Enabled by Fluoropoly(olefin) Membranes. <i>Advanced Functional Materials</i> , 2019, 29, 1902059.	14.9	128
21	Radiation-grafted anion-exchange membranes: the switch from low- to high-density polyethylene leads to remarkably enhanced fuel cell performance. <i>Energy and Environmental Science</i> , 2019, 12, 1575-1579.	30.8	223
22	High-Performing PGM-Free AEMFC Cathodes from Carbon-Supported Cobalt Ferrite Nanoparticles. <i>Catalysts</i> , 2019, 9, 264.	3.5	53
23	Nitrogen-doped Carbon-CoO Nanohybrids: A Precious Metal Free Cathode that Exceeds 1.0 W cm ⁻² Peak Power and 100 h Life in Anion-Exchange Membrane Fuel Cells. <i>Angewandte Chemie</i> , 2019, 131, 1058-1063.	3.8	32
24	Nitrogen-doped Carbon-CoO Nanohybrids: A Precious Metal Free Cathode that Exceeds 1.0 W cm ⁻² Peak Power and 100 h Life in Anion-Exchange Membrane Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1046-1051.	3.8	117
25	Beyond catalysis and membranes: visualizing and solving the challenge of electrode water accumulation and flooding in AEMFCs. <i>Energy and Environmental Science</i> , 2018, 11, 551-558.	30.8	229
26	Preferentially Oriented Ag Nanocrystals with Extremely High Activity and Faradaic Efficiency for CO ₂ Electrochemical Reduction to CO. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1734-1742.	8.0	105
27	Improved Capacity Retention of Metal Oxide Anodes in Li-Ion Batteries: Increasing Intraparticle Electronic Conductivity through Na Inclusion in Mn ₃ O ₄ . <i>ChemElectroChem</i> , 2018, 5, 2059-2063.	3.4	8
28	Strategies for Reducing the PGM Loading in High Power AEMFC Anodes. <i>Journal of the Electrochemical Society</i> , 2018, 165, F710-F717.	2.9	48
29	Highly active and durable Pd-Cu catalysts for oxygen reduction in alkaline exchange membrane fuel cells. <i>Frontiers in Energy</i> , 2017, 11, 299-309.	2.3	37