

# Meng Ni

## List of Publications by Year in descending order

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371  
papers

23,269  
citations

14644

66  
h-index

11601

135  
g-index

377  
all docs

377  
docs citations

377  
times ranked

18963  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical study of vapor behavior in high temperature PEM fuel cell under key material and operating parameters. <i>International Journal of Green Energy</i> , 2022, 19, 707-718.	2.1	4
2	A rational design of FeNi alloy nanoparticles and carbonate-decorated perovskite as a highly active and coke-resistant anode for solid oxide fuel cells. <i>Chemical Engineering Journal</i> , 2022, 430, 132615.	6.6	22
3	Modeling and optimization of high temperature proton exchange membrane electrolyzer cells. <i>International Journal of Green Energy</i> , 2022, 19, 919-930.	2.1	9
4	Numerical study of triple-phase boundary length in high-temperature proton exchange membrane fuel cell. <i>International Journal of Energy Research</i> , 2022, 46, 1998-2010.	2.2	6
5	Reconstruction and optimization of LSCF cathode microstructure based on Kinetic Monte Carlo method and Lattice Boltzmann method. <i>Chemical Engineering Journal</i> , 2022, 436, 132144.	6.6	8
6	All-in-one and bipolar-membrane-free acid-alkaline hydrogel electrolytes for flexible high-voltage Zn-air batteries. <i>Chemical Engineering Journal</i> , 2022, 430, 132718.	6.6	24
7	In-situ observation of the gas evolution process on the air electrode of Zn-air batteries during charging. <i>Chemical Engineering Journal</i> , 2022, 427, 130862.	6.6	55
8	Materials development and prospective for protonic ceramic fuel cells. <i>International Journal of Energy Research</i> , 2022, 46, 2212-2240.	2.2	29
9	Rechargeable Zn-air batteries: Recent trends and future perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111771.	8.2	126
10	Effects of cathode thickness and microstructural properties on the performance of protonic ceramic fuel cell (PCFC): A 3D modelling study. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 4047-4061.	3.8	19
11	Radiative cooling-assisted thermoelectric refrigeration and power systems: Coupling properties and parametric optimization. <i>Energy</i> , 2022, 242, 122546.	4.5	13
12	A comprehensive review of solid oxide fuel cells operating on various promising alternative fuels. <i>Energy Conversion and Management</i> , 2022, 253, 115175.	4.4	117
13	Optimizing the charging protocol to address the self-discharge issues in rechargeable alkaline Zn-Co batteries. <i>Applied Energy</i> , 2022, 308, 118366.	5.1	12
14	A data-driven digital-twin model and control of high temperature proton exchange membrane electrolyzer cells. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 8687-8699.	3.8	24
15	Microscale-decoupled charge-discharge reaction sites for an air electrode with abundant triple-phase boundary and enhanced cycle stability of Zn-Air batteries. <i>Journal of Power Sources</i> , 2022, 525, 231108.	4.0	6
16	Nanoengineered, Mo-Doped, Ni <sub>3</sub> S <sub>2</sub> Electrocatalyst with Increased Ni-S Coordination for Oxygen Evolution in Alkaline Seawater. <i>Energy &amp; Fuels</i> , 2022, 36, 2910-2917.	2.5	24
17	è“â°æ€è†œç†fæ–™ç”µæ±â†â•š“ç”ç©¶âšç–ç•¥â¼â€–çŽ°çš¶. <i>Chinese Science Bulletin</i> , 2022, , .	0.4	2
18	Tailoring structural properties of carbon via implanting optimal co nanoparticles in nâ€rich carbon cages toward highâ€efficiency oxygen electrocatalysis for rechargeable znâ€air batteries. , 2022, 4, 576-585.		27

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19	Modelling of solid oxide fuel cells with internal glycerol steam reforming. International Journal of Hydrogen Energy, 2022, 47, 15012-15023.	3.8	5
20	Bridging the Charge Accumulation and High Reaction Order for High-Rate Oxygen Evolution and Long Stable Zn-Air Batteries. Advanced Functional Materials, 2022, 32, .	7.8	49
21	Multi-objective optimizations of solid oxide co-electrolysis with intermittent renewable power supply via multi-physics simulation and deep learning strategy. Energy Conversion and Management, 2022, 258, 115560.	4.4	9
22	Validation methodology for PEM fuel cell three-dimensional simulation. International Journal of Heat and Mass Transfer, 2022, 189, 122705.	2.5	26
23	New interconnector designs for electrical performance enhancement of solid oxide fuel cells: A 3D modelling study. Journal of Power Sources, 2022, 533, 231373.	4.0	21
24	Coupling deep learning and multi-objective genetic algorithms to achieve high performance and durability of direct internal reforming solid oxide fuel cell. Applied Energy, 2022, 315, 119046.	5.1	19
25	Influence of interior layouts on occupant energy-saving behaviour in buildings: An integrated approach using Agent-Based Modelling, System Dynamics and Building Information Modelling. Renewable and Sustainable Energy Reviews, 2022, 161, 112382.	8.2	21
26	Novel battery thermal management system with different shapes of pin fins. International Journal of Energy Research, 2022, 46, 5997-6011.	2.2	9
27	In Situ Anchoring Co-Ni-C Nanoparticles on Co <sub>4</sub> N Nanosheets toward Ultrastable Flexible Self-Supported Bifunctional Oxygen Electrocatalyst Enables Recyclable Zn-Air Batteries Over 10 000 Cycles and Fast Charging. Small, 2022, 18, e2105887.	5.2	22
28	Effect of engineered lattice contraction and expansion on the performance and CO <sub>2</sub> tolerance of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.7</sub> Fe <sub>0.3</sub> O <sub>3-<math>\lambda</math></sub> functional material for intermediate temperature solid oxide fuel cells. Ceramics International, 2022, 48, 21416-21427.	2.3	11
29	Structural Engineering of Cobalt-Free Perovskite Enables Efficient and Durable Oxygen Reduction in Solid Oxide Fuel Cells. Small Methods, 2022, 6, e2200292.	4.6	8
30	Building Layout Influence on Occupant's Energy Consumption Behaviour: An Agent-Based Modeling Approach. , 2022, 15, .		0
31	Ethylene and power cogeneration from proton ceramic fuel cells (PCFC): A thermo-electrochemical modelling study. Journal of Power Sources, 2022, 536, 231503.	4.0	10
32	Modeling and analysis of water vapor dynamics in high-temperature proton exchange membrane fuel cell coupling gas-crossover phenomena. International Journal of Hydrogen Energy, 2022, 47, 18504-18517.	3.8	12
33	Dynamic hierarchical modeling and control strategy of high temperature proton exchange electrolyzer cell system. International Journal of Hydrogen Energy, 2022, 47, 22302-22315.	3.8	13
34	Performance potential of a new molten hydroxide direct carbon fuel cell-based triple-cycle system for clean and efficient coal use. International Journal of Energy Research, 2022, 46, 14491-14504.	2.2	3
35	Dynamic behavior of high-temperature CO <sub>2</sub> /H <sub>2</sub> O co-electrolysis coupled with real fluctuating renewable power. Sustainable Energy Technologies and Assessments, 2022, 52, 102344.	1.7	2
36	pH-sensitive Thermally Regenerative Cell (pH-TRC) with Circulating Hydrogen for Long Discharging Time and High-Power Output. Chemical Engineering Journal, 2022, , 137772.	6.6	1

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37	Effects of methane steam reforming on the mechanical stability of solid oxide fuel cell stack. <i>Applied Energy</i> , 2022, 322, 119464.	5.1	11
38	New nitrogen-doped graphitic carbon nanosheets with rich structural defects and hierarchical nanopores as efficient metal-free electrocatalysts for oxygen reduction reaction in Zn-Air batteries. <i>Chemical Engineering Science</i> , 2022, 259, 117816.	1.9	8
39	Achieving high energy efficiency of alkaline hybrid zinc battery by using the optimized Co-Mn spinel cathode. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 27470-27480.	3.8	5
40	Efficiently optimizing the oxygen catalytic properties of the birnessite type manganese dioxide for zinc-air batteries. <i>Journal of Alloys and Compounds</i> , 2021, 852, 157012.	2.8	26
41	3D non-isothermal dynamic simulation of high temperature proton exchange membrane fuel cell in the start-up process. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 2577-2593.	3.8	27
42	Modelling of high temperature direct methanol solid oxide fuel cells. <i>International Journal of Energy Research</i> , 2021, 45, 3097-3112.	2.2	21
43	Investigation on cold start of polymer electrolyte membrane fuel cells stacks with diverse cathode flow fields. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 5580-5592.	3.8	15
44	Morphology and performance evolution of anode microstructure in solid oxide fuel cell: A model-based quantitative analysis. <i>Applications in Energy and Combustion Science</i> , 2021, 5, 100016.	0.9	9
45	Unravel the influences of Ni substitution on Co-based electrodes for rechargeable alkaline Zn-Co batteries. <i>Journal of Power Sources</i> , 2021, 483, 229192.	4.0	27
46	Energetic, exergetic and ecological evaluations of a hybrid system based on a phosphoric acid fuel cell and an organic Rankine cycle. <i>Energy</i> , 2021, 217, 119365.	4.5	23
47	Recent Developments of Preintercalated Cathodes for Rechargeable Aqueous Zn-Ion Batteries. <i>Energy Technology</i> , 2021, 9, 2000829.	1.8	12
48	Ultrafine ruthenium-iridium alloy nanoparticles well-dispersed on N-rich carbon frameworks as efficient hydrogen-generation electrocatalysts. <i>Chemical Engineering Journal</i> , 2021, 417, 128105.	6.6	28
49	Materials Engineering in Perovskite for Optimized Oxygen Evolution Electrocatalysis in Alkaline Condition. <i>Small</i> , 2021, 17, e2006638.	5.2	41
50	Review of Liquid-Based Systems to Recover Low-Grade Waste Heat for Electrical Energy Generation. <i>Energy &amp; Fuels</i> , 2021, 35, 161-175.	2.5	32
51	Mathematical modeling and numerical analysis of alkaline zinc-iron flow batteries for energy storage applications. <i>Chemical Engineering Journal</i> , 2021, 405, 126684.	6.6	39
52	Numerical simulation of hybrid systems based on solid oxide fuel cells. , 2021, , 91-127.		0
53	Influence of Occupant Behavior for Building Energy Conservation: A Systematic Review Study of Diverse Modeling and Simulation Approach. <i>Buildings</i> , 2021, 11, 41.	1.4	28
54	High-temperature electrolysis and co-electrolysis. , 2021, , 51-73.		1

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55	Robust Anode-Supported Cells with Fast Oxygen Release Channels for Efficient and Stable CO <sub>2</sub> Electrolysis at Ultrahigh Current Densities. <i>Small</i> , 2021, 17, e2007211.	5.2	13
56	Interfacial La Diffusion in the CeO <sub>2</sub> /LaFeO <sub>3</sub> Hybrid for Enhanced Oxygen Evolution Activity. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 2799-2806.	4.0	38
57	Enabling thermal-neutral electrolysis for CO <sub>2</sub> -to-fuel conversions with a hybrid deep learning strategy. <i>Energy Conversion and Management</i> , 2021, 230, 113827.	4.4	23
58	Thermal-expansion offset for high-performance fuel cell cathodes. <i>Nature</i> , 2021, 591, 246-251.	13.7	328
59	Building information modeling (BIM) incorporated green building analysis: an application of local construction materials and sustainable practice in the built environment. <i>Journal of Building Pathology and Rehabilitation</i> , 2021, 6, 1.	0.7	17
60	Methanol to power through high-efficiency hybrid fuel cell system: Thermodynamic, thermo-economic, and techno-economic (3T) analyses in Northwest China. <i>Energy Conversion and Management</i> , 2021, 232, 113899.	4.4	19
61	Investigation on the electrochemical performance of hybrid zinc batteries through numerical analysis. <i>Electrochimica Acta</i> , 2021, 375, 137967.	2.6	6
62	A simple but effective design to enhance the performance and durability of direct carbon solid oxide fuel cells. <i>Applied Energy</i> , 2021, 287, 116586.	5.1	13
63	Mechanism analysis of the effect of different gas manifold positions on proton exchange membrane fuel cell cold start performance. <i>International Journal of Energy Research</i> , 2021, 45, 13429-13441.	2.2	4
64	Cu-modified Ni foams as three-dimensional outer anodes for high-performance hybrid direct coal fuel cells. <i>Chemical Engineering Journal</i> , 2021, 410, 128239.	6.6	20
65	Coupling properties and parametric optimization of a photovoltaic panel driven thermoelectric refrigerators system. <i>Energy</i> , 2021, 220, 119798.	4.5	15
66	Investigation of real-time changes and recovery of proton exchange membrane fuel cell in voltage reversal. <i>Energy Conversion and Management</i> , 2021, 236, 114037.	4.4	13
67	A mini-review of noble-metal-free electrocatalysts for overall water splitting in non-alkaline electrolytes. <i>Materials Reports Energy</i> , 2021, 1, 100024.	1.7	27
68	Improved energy performance of a PEM fuel cell by introducing discontinuous S-shaped and crescent ribs into flowing channels. <i>Energy</i> , 2021, 222, 119920.	4.5	36
69	Sustainable water-energy-environment nexus. <i>Environmental Science and Pollution Research</i> , 2021, 28, 40049-40052.	2.7	6
70	Building information modeling (BIM), System dynamics (SD), and Agent-based modeling (ABM): Towards an integrated approach. <i>Ain Shams Engineering Journal</i> , 2021, 12, 4261-4274.	3.5	24
71	Numerical study of high temperature proton exchange membrane fuel cell (HT-PEMFC) with a focus on rib design. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 21098-21111.	3.8	37
72	Coupled and optimized properties of a hybrid system integrating electrochemical cycles with perovskite solar cell. <i>International Journal of Energy Research</i> , 2021, 45, 18846-18856.	2.2	8

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73	Thermo-electrochemical modelling of high temperature methanol-fuelled solid oxide fuel cells. Applied Energy, 2021, 291, 116832.	5.1	39
74	Scientometric review of advancements in the development of high-performance cathode for low and intermediate temperature solid oxide fuel cells: Three decades in retrospect. International Journal of Hydrogen Energy, 2021, 46, 26518-26536.	3.8	33
75	Continuum scale modelling and complementary experimentation of solid oxide cells. Progress in Energy and Combustion Science, 2021, 85, 100902.	15.8	58
76	Optimization of catalyst layer thickness for achieving high performance and low cost of high temperature proton exchange membrane fuel cell. Applied Energy, 2021, 294, 117012.	5.1	35
77	Multi-Functional Hydrogels for Flexible Zinc-Based Batteries Working under Extreme Conditions. Advanced Energy Materials, 2021, 11, 2101749.	10.2	116
78	An innovative thermal management method for cooling loop of electric driving system for durable and high efficiency electric vehicle. Applied Thermal Engineering, 2021, 195, 117176.	3.0	11
79	Thermally Regenerative CO <sub>2</sub> -Induced pH-Gradient Cell for Waste-to-Energy Conversion. ACS Energy Letters, 2021, 6, 3221-3227.	8.8	7
80	Mn-based spinels evolved from layered manganese dioxides at mild temperature for the robust flexible quasi-solid-state zinc-air batteries. Chemical Engineering Journal, 2021, 417, 129179.	6.6	20
81	Tailoring charge and mass transport in cation/anion-codoped Ni <sub>3</sub> N / N-doped CNT integrated electrode toward rapid oxygen evolution for fast-charging zinc-air batteries. Energy Storage Materials, 2021, 39, 11-20.	9.5	44
82	Elucidating the mechanism of discharge performance improvement in zinc-air flow batteries: A combination of experimental and modeling investigations. Journal of Energy Storage, 2021, 40, 102779.	3.9	11
83	Research progress of MXene-based catalysts for electrochemical water-splitting and metal-air batteries. Energy Storage Materials, 2021, 43, 509-530.	9.5	60
84	Boron-Mediated Grain Boundary Engineering Enables Simultaneous Improvement of Thermoelectric and Mechanical Properties in Na-type Bi <sub>2</sub> Te <sub>3</sub> . Small, 2021, 17, e2104067.	5.2	30
85	Scientometric review of proton-conducting solid oxide fuel cells. International Journal of Hydrogen Energy, 2021, 46, 37406-37428.	3.8	44
86	Multi-Functional Hydrogels for Flexible Zinc-Based Batteries Working under Extreme Conditions (Adv.)	10.2	4
87	Enhancement of lithium-ion battery thermal management with the divergent-shaped channel cold plate. Journal of Energy Storage, 2021, 42, 103027.	3.9	37
88	Optimization of gas diffusion layer in high temperature PEMFC with the focuses on thickness and porosity. Applied Energy, 2021, 300, 117357.	5.1	63
89	Self-supported metal sulfide electrode for flexible quasi-solid-state zinc-air batteries. Journal of Alloys and Compounds, 2021, 878, 160434.	2.8	10
90	Experimental validation for enhancement of PEMFC cold start performance: Based on the optimization of micro porous layer. Applied Energy, 2021, 300, 117306.	5.1	29

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91	A hybrid system integrating solid oxide fuel cell and thermo-radiative-photovoltaic cells for energy cascade utilization. <i>Journal of Power Sources</i> , 2021, 512, 230538.	4.0	10
92	Autothermal reforming of methane over an integrated solid oxide fuel cell reactor for power and syngas co-generation. <i>Journal of Power Sources</i> , 2021, 513, 230536.	4.0	28
93	Achieving exceptional activity and durability toward oxygen reduction based on a cobalt-free perovskite for solid oxide fuel cells. <i>Journal of Energy Chemistry</i> , 2021, 62, 653-659.	7.1	19
94	Multi-perspective analysis of CO poisoning in high-temperature proton exchange membrane fuel cell stack via numerical investigation. <i>Renewable Energy</i> , 2021, 180, 313-328.	4.3	15
95	Insights into the Thermopower of Thermally Regenerative Electrochemical Cycle for Low Grade Heat Harvesting. <i>ACS Energy Letters</i> , 2021, 6, 329-336.	8.8	43
96	Constructing the Triple-Phase Boundaries of Integrated Air Electrodes for High-Performance Zn-Air Batteries. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101256.	1.9	19
97	Ni migration of Ni-YSZ electrode in solid oxide electrolysis cell: An integrated model study. <i>Journal of Power Sources</i> , 2021, 516, 230660.	4.0	34
98	Cost evaluation and sensitivity analysis of the alkaline zinc-iron flow battery system for large-scale energy storage applications. <i>Journal of Energy Storage</i> , 2021, 44, 103327.	3.9	15
99	Modeling of vanadium redox flow battery and electrode optimization with different flow fields. <i>E-Prime</i> , 2021, 1, 100001.	2.1	9
100	A Highly Reversible Zinc Anode for Rechargeable Aqueous Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 52659-52669.	4.0	31
101	Regulating the Interfacial Electron Density of $\text{La}_{0.8}\text{Sr}_{0.2}\text{Mn}_{0.5}\text{Co}_{0.5}\text{O}_{3-x}$ /RuO <sub>2</sub> for Efficient and Low-Cost Bifunctional Oxygen Electrocatalysts and Rechargeable Zn-Air Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 61098-61106.	4.0	10
102	The relationship between energy consumption and gross domestic product in Hong Kong (1992-2015): Evidence from sectoral analysis and implications on future energy policy. <i>Energy and Environment</i> , 2020, 31, 215-236.	2.7	3
103	Toward the rational design of cathode and electrolyte materials for aprotic Li-CO <sub>2</sub> batteries: A numerical investigation. <i>International Journal of Energy Research</i> , 2020, 44, 496-507.	2.2	15
104	All-solid-state flexible zinc-air battery with polyacrylamide alkaline gel electrolyte. <i>Journal of Power Sources</i> , 2020, 450, 227653.	4.0	108
105	A-site deficient/excessive effects of LaMnO <sub>3</sub> perovskite as bifunctional oxygen catalyst for zinc-air batteries. <i>Electrochimica Acta</i> , 2020, 333, 135566.	2.6	71
106	Coal pretreatment and Ag-infiltrated anode for high-performance hybrid direct coal fuel cell. <i>Applied Energy</i> , 2020, 260, 114197.	5.1	24
107	3D thermo-electro-chemo-mechanical coupled modeling of solid oxide fuel cell with double-sided cathodes. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 904-915.	3.8	34
108	Thermo-economic modeling and analysis of an NG-fueled SOFC-WGS-TSA-PEMFC hybrid energy conversion system for stationary electricity power generation. <i>Energy</i> , 2020, 192, 116613.	4.5	50

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109	Ni-doped A-site-deficient La <sub>0.7</sub> Sr <sub>0.3</sub> Cr <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>3-<math>\hat{\imath}</math></sub> perovskite as anode of direct carbon solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 21873-21880.	3.8	16
110	Sulfur-tolerant Fe-doped La <sub>0.3</sub> Sr <sub>0.7</sub> TiO <sub>3</sub> perovskite as anode of direct carbon solid oxide fuel cells. <i>Energy</i> , 2020, 211, 118958.	4.5	23
111	Low or No subsidy? Proposing a regional power grid based wind power feed-in tariff benchmark price mechanism in China. <i>Energy Policy</i> , 2020, 146, 111758.	4.2	21
112	Robust non-Pt noble metal-based nanomaterials for electrocatalytic hydrogen generation. <i>Applied Physics Reviews</i> , 2020, 7, .	5.5	28
113	Rational design of spinel oxides as bifunctional oxygen electrocatalysts for rechargeable Zn-air batteries. <i>Chemical Physics Reviews</i> , 2020, 1, .	2.6	28
114	Dynamic modeling and operation strategy of natural gas fueled SOFC-Engine hybrid power system with hydrogen addition by metal hydride for vehicle applications. <i>ETransportation</i> , 2020, 5, 100074.	6.8	27
115	Dynamic behaviour and control strategy of high temperature proton exchange membrane electrolyzer cells (HT-PEMECs) for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 26613-26622.	3.8	23
116	Parametric optimization of a coupled system integrating solid oxide fuel cell and graphene thermionic energy converter. <i>Journal of Power Sources</i> , 2020, 478, 228797.	4.0	12
117	Configuration design and parametric optimum selection of a self-supporting PEMFC. <i>Energy Conversion and Management</i> , 2020, 225, 113391.	4.4	7
118	Noble-metal-free catalyst with enhanced hydrogen evolution reaction activity based on granulated Co-doped Ni-Mo phosphide nanorod arrays. <i>Nano Research</i> , 2020, 13, 3321-3329.	5.8	37
119	Investigation on the Strategies for Discharge Capacity Improvement of Aprotic Li-CO <sub>2</sub> Batteries. <i>Energy &amp; Fuels</i> , 2020, 34, 16870-16878.	2.5	9
120	An efficient and durable perovskite electrocatalyst for oxygen reduction in solid oxide fuel cells. <i>Chemical Engineering Journal</i> , 2020, 396, 125237.	6.6	30
121	Direct growth of ordered N-doped carbon nanotube arrays on carbon fiber cloth as a free-standing and binder-free air electrode for flexible quasi-solid-state rechargeable Zn-Air batteries. , 2020, 2, 461-471.		64
122	Monoclinic SrIrO <sub>3</sub> : An Easily Synthesized Conductive Perovskite Oxide with Outstanding Performance for Overall Water Splitting in Alkaline Solution. <i>Chemistry of Materials</i> , 2020, 32, 4509-4517.	3.2	72
123	Microporous Layers with Different Decorative Patterns for Polymer Electrolyte Membrane Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 24048-24058.	4.0	33
124	Microstructure-tuned cobalt oxide electrodes for high-performance Zn-Co batteries. <i>Electrochimica Acta</i> , 2020, 353, 136535.	2.6	28
125	Rechargeable alkaline zinc batteries: Progress and challenges. <i>Energy Storage Materials</i> , 2020, 31, 44-57.	9.5	139
126	Investigation on the Discharge and Charge Behaviors of Li-CO <sub>2</sub> Batteries with Carbon Nanotube Electrodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9742-9750.	3.2	25



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127	Detailed optimization of multiwall carbon nanotubes doped microporous layer in polymer electrolyte membrane fuel cells for enhanced performance. <i>Applied Energy</i> , 2020, 274, 115214.	5.1	21
128	Sustainable development of energy, water, and environment systems. <i>Environmental Science and Pollution Research</i> , 2020, 27, 12839-12841.	2.7	2
129	Thermal Stress Analysis of Solid Oxide Fuel Cell with Z-type and Serpentine-Type Channels Considering Pressure Drop. <i>Journal of the Electrochemical Society</i> , 2020, 167, 044517.	1.3	17
130	Engineering the interfaces in water-splitting photoelectrodes – an overview of the technique development. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6984-7002.	5.2	44
131	Three-dimensional modeling of flow field optimization for co-electrolysis solid oxide electrolysis cell. <i>Applied Thermal Engineering</i> , 2020, 172, 114959.	3.0	38
132	Three-dimensional Modeling and Performance Optimization of Proton Conducting Solid Oxide Electrolysis Cell. <i>Fuel Cells</i> , 2020, 20, 701-711.	1.5	11
133	Fuel cells that operate at 300°C to 500°C. <i>Science</i> , 2020, 369, 138-139.	6.0	48
134	Rich atomic interfaces between sub-1 nm RuO <sub>x</sub> clusters and porous Co <sub>3</sub> O <sub>4</sub> nanosheets boost oxygen electrocatalysis bifunctionality for advanced Zn-air batteries. <i>Energy Storage Materials</i> , 2020, 32, 20-29.	9.5	84
135	The mass transfer characteristics and energy improvement with various partially blocked flow channels in a PEM fuel cell. <i>Energy</i> , 2020, 206, 117977.	4.5	56
136	Three-dimensional simulation of solid oxide fuel cell with metal foam as cathode flow distributor. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 6897-6911.	3.8	29
137	Advances in Porous Perovskites: Synthesis and Electrocatalytic Performance in Fuel Cells and Metal-Air Batteries. <i>Energy and Environmental Materials</i> , 2020, 3, 121-145.	7.3	119
138	Achieving a stable zinc electrode with ultralong cycle life by implementing a flowing electrolyte. <i>Journal of Power Sources</i> , 2020, 453, 227856.	4.0	31
139	Harvesting waste heat produced in solid oxide fuel cell using near-field thermophotovoltaic cell. <i>Journal of Power Sources</i> , 2020, 452, 227831.	4.0	12
140	Low temperature durability and consistency analysis of proton exchange membrane fuel cell stack based on comprehensive characterizations. <i>Applied Energy</i> , 2020, 264, 114626.	5.1	62
141	Techno-economic evaluation and technology roadmap of the MWe-scale SOFC-PEMFC hybrid fuel cell system for clean power generation. <i>Journal of Cleaner Production</i> , 2020, 255, 120225.	4.6	26
142	Performance evaluation and optimization of a perovskite solar cell-thermoelectric generator hybrid system. <i>Energy</i> , 2020, 201, 117665.	4.5	24
143	Thermal effects in H <sub>2</sub> O and CO <sub>2</sub> assisted direct carbon solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 12459-12475.	3.8	21
144	Towards online optimisation of solid oxide fuel cell performance: Combining deep learning with multi-physics simulation. <i>Energy and AI</i> , 2020, 1, 100003.	5.8	61

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145	Mini-review of perovskite oxides as oxygen electrocatalysts for rechargeable zinc-air batteries. <i>Chemical Engineering Journal</i> , 2020, 397, 125516.	6.6	121
146	Mathematical modeling and numerical analysis of the discharge process of an alkaline zinc-cobalt battery. <i>Journal of Energy Storage</i> , 2020, 30, 101432.	3.9	6
147	Highly active and durable catalyst for hydrogen generation by the NaBH <sub>4</sub> hydrolysis reaction: CoWB/NF nanodendrite with an acicular array structure. <i>Journal of Alloys and Compounds</i> , 2020, 836, 155429.	2.8	32
148	Structural design of gas diffusion layer for proton exchange membrane fuel cell at varying humidification. <i>Journal of Power Sources</i> , 2020, 467, 228355.	4.0	32
149	Photo-assisted non-aqueous lithium-oxygen batteries: Progress and prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 127, 109877.	8.2	22
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