

Yawen Dai

List of Publications by Year in descending order

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38
papers

1,157
citations

361413

20
h-index

395702

33
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all docs

39
docs citations

39
times ranked

1104
citing authors

#	ARTICLE	IF	CITATIONS
1	Rechargeable alkaline zinc batteries: Progress and challenges. <i>Energy Storage Materials</i> , 2020, 31, 44-57.	18.0	139
2	Mini-review of perovskite oxides as oxygen electrocatalysts for rechargeable zinc-air batteries. <i>Chemical Engineering Journal</i> , 2020, 397, 125516.	12.7	121
3	Multi-Functional Hydrogels for Flexible Zinc-Based Batteries Working under Extreme Conditions. <i>Advanced Energy Materials</i> , 2021, 11, 2101749.	19.5	116
4	Sacrificial Interlayer for Promoting Charge Transport in Hematite Photoanode. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42723-42733.	8.0	61
5	Polarization-induced saw-tooth-like potential distribution in zincblende-wurtzite superlattice for efficient charge separation. <i>Nano Energy</i> , 2017, 41, 101-108.	16.0	53
6	Bridging the Charge Accumulation and High Reaction Order for High-Rate Oxygen Evolution and Long Stable Zn-Air Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	49
7	Engineering the interfaces in water-splitting photoelectrodes – an overview of the technique development. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6984-7002.	10.3	44
8	Insights into the Thermopower of Thermally Regenerative Electrochemical Cycle for Low Grade Heat Harvesting. <i>ACS Energy Letters</i> , 2021, 6, 329-336.	17.4	43
9	Interfacial La Diffusion in the CeO ₂ /LaFeO ₃ Hybrid for Enhanced Oxygen Evolution Activity. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2799-2806.	8.0	38
10	Review of Liquid-Based Systems to Recover Low-Grade Waste Heat for Electrical Energy Generation. <i>Energy & Fuels</i> , 2021, 35, 161-175.	5.1	32
11	Materials development and prospective for protonic ceramic fuel cells. <i>International Journal of Energy Research</i> , 2022, 46, 2212-2240.	4.5	29
12	Robust non-Pt noble metal-based nanomaterials for electrocatalytic hydrogen generation. <i>Applied Physics Reviews</i> , 2020, 7, .	11.3	28
13	Rational design of spinel oxides as bifunctional oxygen electrocatalysts for rechargeable Zn-air batteries. <i>Chemical Physics Reviews</i> , 2020, 1, .	5.7	28
14	Microstructure-tuned cobalt oxide electrodes for high-performance Zn-Co batteries. <i>Electrochimica Acta</i> , 2020, 353, 136535.	5.2	28
15	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.	12.7	28
16	A mini-review of noble-metal-free electrocatalysts for overall water splitting in non-alkaline electrolytes. <i>Materials Reports Energy</i> , 2021, 1, 100024.	3.2	27
17	Tailoring structural properties of carbon via implanting optimal co nanoparticles in N-rich carbon cages toward high-efficiency oxygen electrocatalysis for rechargeable Zn-air batteries. , 2022, 4, 576-585.		27
18	Investigation on the Discharge and Charge Behaviors of Li-CO ₂ Batteries with Carbon Nanotube Electrodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9742-9750.	6.7	25

#	ARTICLE	IF	CITATIONS
19	Performance evaluation and optimization of a perovskite solar cell-thermoelectric generator hybrid system. <i>Energy</i> , 2020, 201, 117665.	8.8	24
20	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.	12.7	24
21	Photo-assisted non-aqueous lithium-oxygen batteries: Progress and prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 127, 109877.	16.4	22
22	In Situ Anchoring Co ²⁺ /Ni ²⁺ Nanoparticles on Co ₄ N Nanosheets toward Ultrastable Flexible Self-Supported Bifunctional Oxygen Electrocatalyst Enables Recyclable Zn-Air Batteries Over 10 000 Cycles and Fast Charging. <i>Small</i> , 2022, 18, e2105887.	10.0	22
23	Coupling properties and parametric optimization of a photovoltaic panel driven thermoelectric refrigerators system. <i>Energy</i> , 2021, 220, 119798.	8.8	15
24	Modulating Photoelectrochemical Water-Splitting Activity by Charge-Storage Capacity of Electrocatalysts. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28753-28762.	3.1	14
25	Radiative cooling-assisted thermoelectric refrigeration and power systems: Coupling properties and parametric optimization. <i>Energy</i> , 2022, 242, 122546.	8.8	13
26	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.	7.8	12
27	Harvesting waste heat produced in solid oxide fuel cell using near-field thermophotovoltaic cell. <i>Journal of Power Sources</i> , 2020, 452, 227831.	7.8	12
28	GaP/GaN core/shell nanowire array on silicon for enhanced photoelectrochemical hydrogen production. <i>Chinese Journal of Catalysis</i> , 2020, 41, 2-8.	14.0	10
29	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.	7.8	10
30	Regulating the Interfacial Electron Density of La _{0.8} Sr _{0.2} Mn _{0.5} Co _{0.5} O ₃ /RuO ₂ for Efficient and Low-Cost Bifunctional Oxygen Electrocatalysts and Rechargeable Zn-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 61098-61106.	8.0	10
31	Investigation on the Strategies for Discharge Capacity Improvement of Aprotic Li-CO ₂ Batteries. <i>Energy & Fuels</i> , 2020, 34, 16870-16878.	5.1	9
32	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.	4.5	8
33	Synergetic Effects of Dual Electrocatalysts for High-Performance Solar-Driven Water Oxidation. <i>ACS Applied Energy Materials</i> , 2019, 2, 7256-7262.	5.1	7
34	Thermally Regenerative CO ₂ -Induced pH-Gradient Cell for Waste-to-Energy Conversion. <i>ACS Energy Letters</i> , 2021, 6, 3221-3227.	17.4	7
35	Investigation on the electrochemical performance of hybrid zinc batteries through numerical analysis. <i>Electrochimica Acta</i> , 2021, 375, 137967.	5.2	6
36	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.	4.5	6

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37	Microscale-decoupled charge-discharge reaction sites for an air electrode with abundant triple-phase boundary and enhanced cycle stability of Zn-Air batteries. Journal of Power Sources, 2022, 525, 231108.	7.8	6
38	Multi-Functional Hydrogels for Flexible Zinc-Based Batteries Working under Extreme Conditions (Adv.) Tj ETQq0,0 rgBT / Overlock 1	19.5	4