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Exploring advanced bifunctional catalysts to accelerate the slow kinetics of oxygen evolution reaction (OER, for charging) and oxygen reduction reaction (ORR, for discharging) is ...

This work demonstrates that in situ growth of FeNi@NHCFs 3D integrated electrode via the electrospinning method could be a reference for designing and synthesizing ...

Here, we, for the first time, use abundantly available peanut shells as precursors and small amount of iron and nickel salts as non-precious metal sources to successfully ...

Research on non-noble metal bifunctional electrocatalysts with high efficiency and long-lasting stability is crucial for many energy storage devices such as zinc-air batteries.

Thus, a FeNi alloy uniformly embedded in 3D nitrogen-doped porous carbon materials (FeNi@NC) was constructed in the subsequent pyrolysis process and used as an efficient ...

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With the growing demand of clean energies, intensive research has been focused on the efficient, environmentally friendly and inexpensive energy conversion and storage ...

With the increasing energy and environmental issues in recent years, it is vital to explore inexpensive and highly activated oxidation reduction reaction (ORR) catalysts for next ...

Here, we outline an easy method for creating a N-doped carbon supported FeNi alloy as a bifunctional catalyst. The process includes uniformly binding the metal ions with a-D ...

As one of promising next-generation energy devices, rechargeable zinc-air batteries (ZABs) have demonstrated great potential in the fields of portable electronics, electric vehicles, ...

Air cathode performance is essential for rechargeable zinc-air batteries (ZABs). In this study, we develop a self-templated synthesis technique for fabricating bimetallic alloys ...

Among different technologies for energy storage and conversion, electrochemical energy devices including batteries, fuel cells, supercapacitors, water-electrolysis to generate ...

To alleviate the severe energy crisis and environmental problems caused by the massive and unsustainable consumption of fossil fuels, it is urgent to develop renewable ...

Research on non-noble metal bifunctional electrocatalysts with high efficiency and long-lasting stability is crucial for many energy storage devices such as zinc-air batteries.

It is reasonable to believe that the flexible self-supporting FeNi@NCNF electrode can be immediately employed in flexible cells without additional additives, which fulfills ...

Introduction Recent research has witnessed rapid advances in metal-air batteries and recognized Zn-air batteries (ZABs) as one of the most promising energy storage devices.

The depletion of fossil fuels and environmental pollution have created an urgent need to develop efficient, eco-friendly, and sustainable energy conversion technologies. Zinc ...

Here, we have successfully prepared an integrated electrocatalyst consisting of nitrogen-enriched porous carbon nanospheres and FeNi alloy NPs (P-FeNi/NC) by ...

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