

FeNi battery energy storage





Overview

Is Feni a bifunctional electrocatalyst for Rechargeable Zn-air battery?

Yang, L.; Zeng, X.F.; Wang, D.; Cao, D.P. Biomass-derived FeNi alloy and nitrogen-codoped porous carbons as highly efficient oxygen reduction and evolution bifunctional electrocatalysts for rechargeable Zn-air battery. *Energy Storage Mater.* 2018, 12, 277–283. [Google Scholar] [CrossRef].

Is Feni a bifunctional oxygen reduction/evolution electrocatalyst for rechargeable zabs?

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 bifunctional oxygen reduction/evolution (ORR/OER) electrocatalyst for rechargeable ZABs.

What is feni (feni@nc) electrocatalyst?

After the subsequent pyrolysis process, a bifunctional FeNi alloy homogeneously dispersed in 3D nitrogen-doped porous carbon catalyst (FeNi@NC) was generated and used as an efficient bifunctional oxygen reduction/evolution (ORR/OER) electrocatalyst for rechargeable ZABs.

How to synthesize Feni alloy and nitrogen-codoped porous carbon Feni-NC bifunctional electro?

In summary, we have proposed a facile two-step synthesis route to successfully synthesize FeNi alloy and nitrogen-codoped porous carbon FeNi-NC bifunctional electrocatalysts by using low-cost and abundantly available peanut shells as precursor and iron and nickel salts as non-precious metal source.



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