

# 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.



## FeNi battery energy storage

---

Biomass-derived FeNi alloy and nitrogen ...

Feb 16, 2018 · Biomass-derived FeNi alloy and nitrogen-codoped porous carbons as highly efficient oxygen reduction and evolution bifunctional ...

---

FeNi alloy embedded in three-dimensional nitrogen-doped ...

Jun 1, 2024 · Rapidly growing energy demand and environmental awareness have spawned a research boom in energy conversion and storage technologies [1, 2]. In various energy ...

---

Electron-Donating Terpyridine-Phosphine ligand Enables ...

3 days ago · Among them, the FeNi-TBPP nanosheet exhibits superior energy storage performance, delivering a remarkable specific capacitance of 2012.0F/g at 1 A/g and retaining ...

---

FeNi decorated nitrogen-doped hollow carbon spheres as ...

Jan 1, 2024 · 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. In ...

---

FeNi Confined in N-Doped Carbon as a Highly Efficient Bi

Jul 14, 2023 · The rising consumption of fossil fuels results in increasing greenhouse gas emissions, highlighting the significance of applying sustainable energy conversion and storage ...

---

Biomass-derived FeNi alloy and nitrogen-codoped porous ...

May 1, 2018 · Herein, we, for the first time, use low-cost and abundantly available peanut shells as precursor and iron and nickel salts as non-precious metal source to successfully synthesize ...

---

FeNi Confined in N-Doped Carbon as a ...

Jul 14, 2023 · The rising consumption of fossil fuels results in increasing greenhouse gas emissions, highlighting the significance of applying ...

---

FeNi alloy embedded in three-dimensional nitrogen-doped

Apr 25, 2024 · FeNi alloy embedded in three-dimensional nitrogen-doped porous carbon as bifunctional oxygen electrocatalysts for rechargeable Zn-air batteries, Journal of Energy ...

---

FeNi decorated nitrogen-doped hollow carbon spheres as ...

Dec 15, 2023 · Abstract 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 ...

---

Biomass-derived FeNi alloy and nitrogen-codoped porous

Feb 16, 2018 · Biomass-derived FeNi alloy and nitrogen-codoped porous carbons as highly efficient oxygen reduction and evolution bifunctional electrocatalysts for rechargeable Zn-air ...

---



FeNi decorated nitrogen-doped hollow carbon spheres ...

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. In this report, ...

---

Multi-scale porous nitrogen-rich large carbon networks

Nov 26, 2024 · Multi-scale porous nitrogen-rich large carbon networks modified by bimetallic FeNi alloys as exceptional bifunctional catalysts for rechargeable Zn-air batteries,Journal of Energy ...

---

## Contact Us

---

For technical specifications, project proposals, or partnership inquiries, please visit:

<https://flightmasters.eu>

## Scan QR Code for More Information



<https://flightmasters.eu>