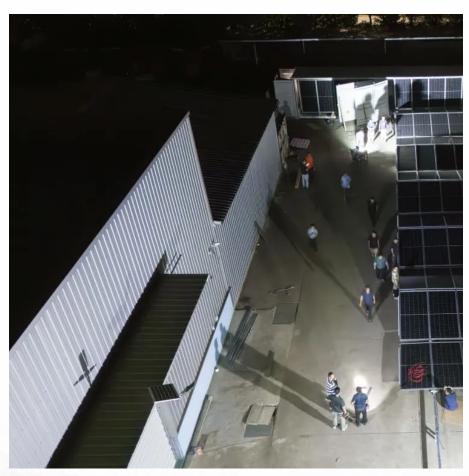


# Zinc-bromine graphene flow battery







# **Overview**

The low power density, due primarily to the sluggish reaction kinetic of Br2/Br—, is one of the main barriers that hinder the widespread application of zinc-bromine flow batteries (ZBFBs). Here, N-doped graphene.



# Zinc-bromine graphene flow battery



Compressed composite carbon felt as a negative electrode for a zinc

However, zinc-based flow batteries involve zinc deposition/dissolution, structure and configuration of the electrode significantly determine stability and performance of the battery.

# The characteristics and performance of hybrid redox flow batteries ...

The benefits and limitations of zinc negative electrodes are outlined with examples to discuss their thermodynamic and kinetic characteristics along with their practical aspects. Four ...



### Boron-Doped Graphene as Efficient Electrocatalyst for Zinc-Bromine

In the present study, BDG is synthesized and used as an electrocatalyst for improving the bromine reversibility in Zn-Br2 redox flow battery applications. BDG showed a ...

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