
In this work, we have sought to further extend those drift and diffusion current-flow concepts that underpin the operation of semiconductor devices into the realm of rocking-chair ...

Here, azobenzene (AZO) is screened out from carbonyl, imine, and azo compounds to serve as anodes, combining it with Ni (OH)2 cathodes to construct a "rocking ...

To fundamentally solve such problems, here we propose using an intercalation-type anode material instead of zinc metal and demonstrate a successful prototype of a rocking ...

In this report, we introduce an innovative "rocking chair" type Zn-CO 2 battery that utilizes a weak-acidic zinc trifluoromethanesulfonate aqueous electrolyte compatible with both ...

We assembled a full organic cell using X 10 -PVBV as negative and poly (3-vinyl- N -methylphenothiazine) (X-PVMPT) as positive electrode material, which operates in anion ...

In this study, a rocking chair desalination battery was developed using NaNiHCF and NaFeHCF electrodes. This system desalts the source ...

To fundamentally solve such problems, here we propose using an intercalation-type anode material instead of zinc metal and ...

Rocking chair batteries (RCBs) are prominent energy storage systems for applications of electric vehicles and electronic devices due to their potentially high energy ...

This review covers the basic study on the rocking chair LIBs regarding the charge storage mechanism across the principal battery components of the anode, cathode, and ...

The conducting polymer backbone provides electron transport pathways for the pendants" redox reactions and also prevents the dissolution of ...

In this study, a rocking chair desalination battery was developed using NaNiHCF and NaFeHCF electrodes. This system desalts the source water at both the charge and discharge steps.

The conducting polymer backbone provides electron transport pathways for the pendants" redox reactions and also prevents the dissolution of pendants. A conducting additive-free all-organic ...

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