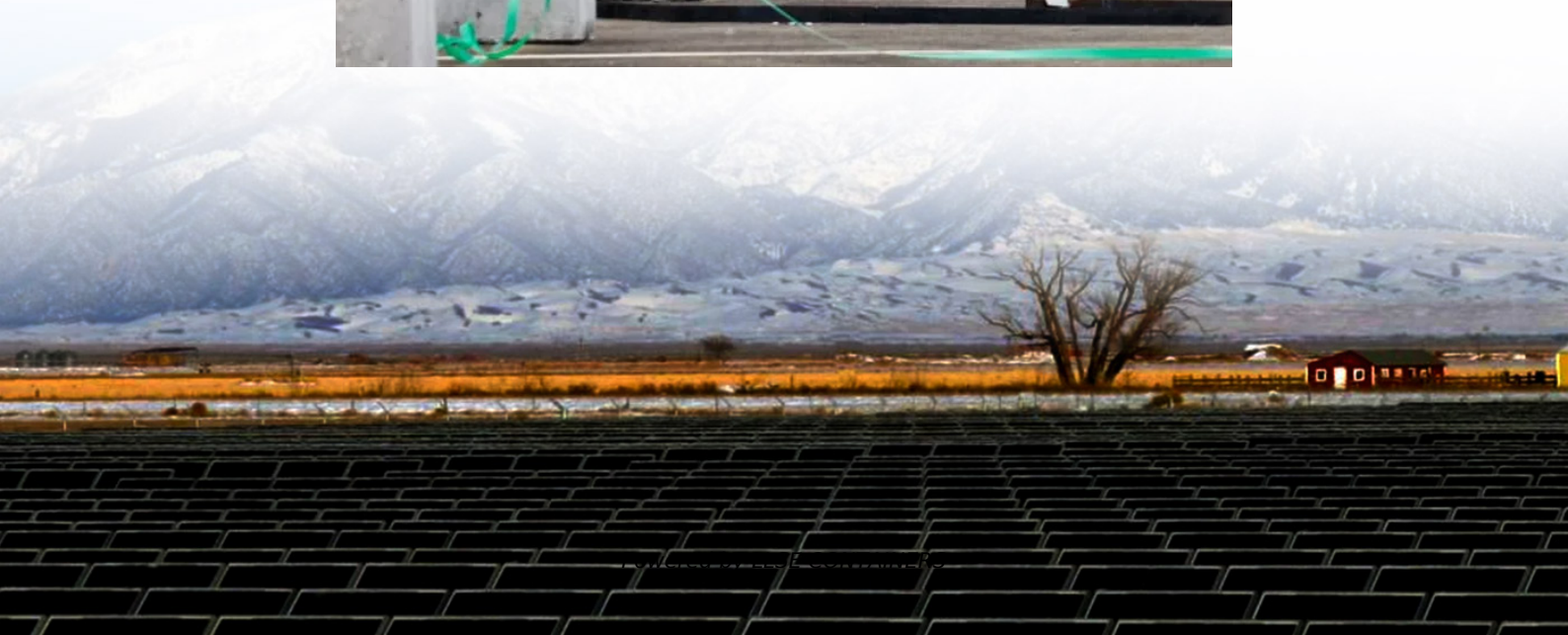


New colloidal solar container battery





Overview

Can aqueous colloid electrolytes improve reversible plating/stripping on Zn ion batteries?

Benefiting from stable colloid additives, aqueous colloid electrolytes as fast ion carriers can modulate the typical electrolyte system for improving reversible plating/stripping on Zn anode for high-performance Zn ion batteries 43, 44.

Does polyiodide cross-over affect grid-level battery performance?

However, capacity loss and low Coulombic efficiency resulting from polyiodide cross-over hinder the grid-level battery performance. Here, we develop colloidal chemistry for iodine-starch catholytes, endowing enlarged-sized active materials by strong chemisorption-induced colloidal aggregation.

Does starch confinement enhance I_0/I conversion efficiency in zinc iodine batteries?

Zhao, D. et al. Enhancing I_0/I – conversion efficiency by starch confinement in zinc-iodine battery. *Energy Environ. Mater.* 7, e12522 (2024). Liu, M. et al. Physicochemical confinement effect enables high-performing zinc-iodine batteries. *J. Am. Chem. Soc.* 144, 21683–21691 (2022).

Does colloidal starch improve reversibility of a Zn anode?

The results could be attributed to the ultras-small-sized colloidal starch that could cross the membrane to the anolyte and consequently stabilize the pH of the anolyte, hence endowing improved reversibility of the Zn anode.



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