

The challenge with Renewable Energy sources arises due to their varying nature with time, climate, season or geographic location. Energy Storage Systems (ESS) can be used for storing available energy from Renewable ...

A dispersion of microcrystalline cellulose (MCC) and carboxymethyl cellulose (CMC) with a specific degree of substitution, allowing for efficient stabilization with minimal amounts, ...

Microcrystalline cellulose (MCC) serves as a foundational material for both positive and negative electrodes. The electrode materials (cello-MOF-L-0.1 and cello-M) obtained via this strategy ...

The Kerala government is intensifying its push for sustainability through large-scale adoption of energy efficiency and decentralised renewable energy solutions. R. Hari Kumar, Director of the Energy Management Centre (EMC), ...

The Clean Electricity Investment Tax Credit under Section 48E of the Internal Revenue Code (IRC) represents a pivotal incentive for advancing zero-emission electricity generation and ...

Envision Energy and FERA Australia have inked an agreement to develop large-scale hybrid renewable energy projects across Australia's National Electricity Market (NEM). The projects ...

The advances in crystal orientation engineering in energy conversion (electrocatalysis, solar cells, and nanogenerators) and storage (metal anodes, non-metal-based electrode materials, and ...

Main text The controlled crystallization of covalent-organic frameworks (COFs) remains a central challenge in reticular chemistry. These porous materials, composed of organic building blocks ...

01 Microcrystalline cellulose as a prebiotic for microbiome diversity Microcrystalline cellulose can act as a prebiotic, promoting the growth of beneficial gut bacteria and enhancing microbiome ...

Designing an affordable device that seamlessly combines efficient electrochemical energy storage with straightforward, robust protocols represents a promising pathway for ushering in the next ...

On July 4, 2025, President Trump signed into law the One Big Beautiful Bill Act (H.R. 1 119th Congress) (OBBBA), which significantly changes the clean energy tax credit landscape established by the Biden administration pursuant to the ...

Herein, a simple, low-cost, and easy-to-scale liquid-phase filling method is proposed. By filling the



Microcrystalline energy storage r

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