

Here we demonstrated a self-looped electrochemical battery recycling approach that enables efficient recycling of lithium and transition metals from spent cathode materials.

The current Review mainly focuses on the most recent nanostructured-design cathode materials in an attempt to draw attention to MIBs and promote the investigation of suitable cathode ...

The materials in question demonstrate exceptional solubility in both aqueous and alcoholic solvents, highlighting their significant potential as cathode interfacial layers suitable for ...

Interlayers in organic solar cells (OSCs) are crucial for efficient charge carrier transport and extraction. Recent research has introduced cathode interlayer (CIL) materials, which are soluble in polar, ...

Herein, we reported two perylenediimide small molecular cathode interface materials (CIMs), PDI-2N and PDI-4N, synthesized by a simple method and with good alcohol soluble, which ...

Dive into the research topics of "Chemical structure and processing solvent of cathode interlayer materials affect organic solar cells performance". Together they form a unique fingerprint.

This mini-review highlights the great potential of solution-processed semiconductor (SPS) materials as cathode interlayers (CILs) in organic solar cells. The working mechanism and ...

This article explores the latest advances in LFP cathode materials synthesis, such as hydrothermal, spray pyrolysis, sol-gel, solid-state, dry emulsion, microwave heating, carbothermal, ...

Cathode interfacial materials (CIMs) are particularly crucial for enhancing the photovoltaic performance of OSCs. They facilitate the formation of efficient ohmic contacts between ...

Room-temperature sodium-sulfur (RT Na-S) batteries have become the most potential large-scale energy storage systems due to the high theoretical energy density and low cost. ...

Interlayers in organic solar cells (OSCs) are crucial for efficient charge carrier transport and extraction. Recent research has introduced cathode interlayer (CIL) materials, which are...

Emerging needs for the large-scale industrialization of organic solar cells require high performance cathode interlayers to facilitate the charge extraction from organic semiconductors. In addition to ...

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The power conversion efficiency (PCE) of organic photovoltaic (OPV) cells has surpassed 20%. However, their stability remains a critical issue that requires further improvement, ...



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