

Wearable electronic devices demand monolithic solar rechargeable batteries that directly convert photon energy into electricity. Solar rechargeable batteries consist of an active ...

Renewable energy storage devices are being given their share of importance owing to the depletion of non-renewable fossil fuel reserves. The supercapacitor is such an ...

With promising prospects and rapid progress in flexible energy storage, polyaniline-hydrogel-based supercapacitors are now getting significant attention. In this ...

This review highlights the versatility of polyaniline (PANI) for application in the electrodes of energy storage devices -- supercapacitors and next-generation batteries (sodium ...

Both polyaniline and vanadium pentoxide (V₂O₅) are promising electrode materials for electrochemical energy storage, but each has limitations. As a composite, the two components ...

This review also compiled all the smart energy applications of PANI and its composites on energy storage and energy generation. Moreover, this review enlighten the ...

The utilization of polyaniline (PANI) for energy storage application, either as a direct electroactive material or as a conducting agent is being widely explored in the last few ...

Supramolecular engineering of cellulose-polyaniline composites using CuTA for superior energy storage applications Shuo Zheng a, Haiping Wang a, Shirong Sun b, Ziyang ...

The presented article comprehensively explores the remarkable potential of polyaniline (PANI) and its composites in supercapacitor applications. This ...

We report a solution-processable nanocomposite film based on TiO₂ and polyaniline (PANI) for high-performance electrochromic and energy storage via the combination of electrostatic spray ...

Electrochromic energy storage devices have both electrochromic and energy storage functions, and can indicate the energy storage status through real-time color changes. ...

This study focused on an important global issue containing both environmental pollution control and energy storage. Polyaniline has been utilized as a supporting material to ...

Energy matters: Some typical applications of pyrolytic polyaniline are emphasized to give a comprehensive

understanding for the distinct roles and mechanisms of ...

Herein, we present the in-situ formation of polyaniline (PANI) within self-assembled guanosine (G) structures, specifically G-quadruplex (G4)-like assemblies, ...

With the worsening depletion of energy resources and global warming, the required development of sustainable and renewable clean energy technology has urgent ...

We report a solution-processable nanocomposite film based on TiO₂ and polyaniline (PANI) for high-performance electrochromic and energy storage via the ...

The green energy storage of polyaniline, without major wastages excreted into the environment is effectively demonstrated by using the polyaniline as supercapacitor ...

This review presents the progressive advances in polyaniline (PANI)-based conductive polymer hydrogels (CPHs) for next-generation flexible energy storage systems, ...

Aqueous iron batteries are safe and cost-effective candidates for large-scale energy storage. However, their long-term cycling stability is inadequate. Here, the authors ...

Abstract Composite materials have gained significant interest for energy storage applications due to their possible synergistic effects. This work describes the synthesis of ...

Polyaniline (PANI) hydrogels, the combination of the conducting polymers and hydrogels, might have possessed widespread application potentials in the fields of such as ...

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