

This review introduces the fascinating realm of supercapacitors, highlighting their role in efficient energy storage. The subsequent segment delves into the versatile nature of ...

energy storage, photocatalysis, anti-corrosion coatings, biomedical applications and sensing applications are also explained. Structural properties play an important role in the performance ...

A symmetric PANI-LS||PANI-LS device delivers a high specific energy of 21.2 W h kg<sup>-1</sup>, an outstanding specific power of 26.0 kW kg<sup>-1</sup>, along with superb flexibility and excellent cycling stability. Thus, combining charge ...

Polyaniline-based nanocomposites find applications in various fields, including energy storage and conversion (batteries, supercapacitors, solar cells), electronics (printed ...

Polyaniline (PANI) is one of the good conducting polymeric materials, which is being used in a number of energy conversion and storing devices along with the combination of carbon materials and metal compounds. ... these ...

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Polyaniline (PANI) has garnered attention from the scientific community because of its promising suitability for a range of medical, anti-corrosion, and electronic applications, ...

Besides these advantageous properties of polyaniline, the structure deformation during cyclic process of energy storage leads to poor cyclic life or energy storage performance ...

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