

Biomass resources (vegetable, farming, and animal wastes, organic wastes, and industrial byproducts) have a high water and oxygen content and poor calorific value which ...

With the strong advancement of the global carbon reduction strategy and the rapid development of renewable energy, compressed air energy storage (CAES) technology has received more and more attention for its key ...

Even though the current energy storage markets are dominated by super-capacitors, batteries, and other storage devices made of non-renewable synthetic sources-derived carbon-based materials, the future of these energy ...

Modern research has made the search for high-performance, sustainable, and efficient energy storage technologies a main focus, especially in light of the growing environmental and energy-demanding issues. This review ...

To vigorously reduce CO₂ emission in the energy sector is an inevitable choice to achieve world's carbon emission reduction and to accelerate the construction of a modern ...

By building a sustainable energy storage system with biomass feedstocks as carbon precursors, reduced utilization of non-environmentally friendly chemicals, metals and reusing the materials will alone render a truly ...

