

Lotus root resistor is an energy storage component

Thermal energy storage (TES) is crucial in the efficient utilization and stable supply of renewable energy. This study aims to enhance the performance of shell-and-tube ...

Herein, a lotus root-like nanofibers composed of Co₃O₄-x bubbles (MCB) with engineered defects is introduced as a novel cathode for hybrid Zn battery (HZB). The ...

Herein, lotus-root like carbon matrix with robust and porous structure was fabricated via a two-step chemical vapor deposition method. This carbon matrix is promising as PIB ...

The main edible part of lotus is the rhizome and seeds, and He-Ye (the leaf of lotus), whose annual production now exceeds 800,000 tons, is often discarded as waste ...

Several aspects should be taken into consideration which were believed to be the main factors affecting the quality of frozen lotus root including raw lotus physiochemical ...

Ascorbic acid, flavonoids, polyphenols are the important bioactive components of lotus root, the content changes of them during pretreatment and dry processing were shown in ...

The results show that the energy absorption ability of LFT is positively correlated with the number of filled columns, while the peak force of LFT is negatively correlated with the ...

Lotus (*Nelumbo nucifera* Gaertn.) root is a well-known aquatic vegetable and mainly cultivated in Asia, especially, the cultivation area of lotus root in China is about 4.0 × 10⁵ hm ...

Bionic method developed to solve the issue of large melting dead zones of TES units. The lotus root-inspired structure significantly enhanced the heat transfer. Shorter melting ...

Lotus Root health benefits includes improving bowel regularity, regulating blood pressure, supporting weight management, and more ... so be sure to include lotus root in ...

Lotus-root-like MnO/C mesoscale hybrids, featuring nanometer-sized monodisperse metal oxide particles uniformly embedded in a porous carbon matrix, were in ...

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A three-dimensional porous carbon material with ultra-high comparative area is fabricated from lotus root junction by carbonization and activation. When used in supercapacitors for aqueous and organic systems ...

Especially in energy storage and conversion, there are widespread instances in nature where organisms store biomass energy, plants use solar energy in photosynthesis, and ...

Lithium-sulfur batteries (LSBs) are regarded as one of the most promising energy-recycling storage systems due to their high energy density (up to 2600 Wh kg⁻¹), ...

In this work, we fabricate the carbon-based potassium ion battery with good cycling stability and extraordinary rate performance, benefiting from i) the porous and robust structure, ...

The world is rapidly adopting renewable energy alternatives at a remarkable rate to address the ever-increasing environmental crisis of CO₂ emissions....

Lotus root (*Nelumbo nucifera* Gaertn.) is a kind of aquatic vegetable belonging to the family Nelumbonaceae, and it holds the largest cultivation area and highest yield among ...

Lotus root (*Nelumbo nucifera* Gaertn) is an aquatic vegetable that is highly nutritious, containing a variety of essential nutrients such as starch, vitamins, proteins, ...

In order to solve the problem that digging lotus roots manually was high in labor intensity, low in efficiency and easy to damage lotus roots, and, in view of the defects of the high cost of existing digging lotus roots equipment ...

The effects of boiling and steaming on lotus root volatile compounds and some of its physicochemical properties were determined. A total of 52 compounds identified in the raw ...

Its edible parts mainly include seed, root, and leaf (Figure 1A). Owing to its nutritional characteristics, lotus has been used in food for 7,000 years in Asia (2). Since ...

Phosphorus is involved in energy transfer and storage within the plant, while potassium helps in regulating plant water balance and improving disease resistance. In ...

Lotus root is the rhizome of *Nelumbo nucifera* Gaertn., an aquatic plant in the family Nelumbonaceae that is widely cultivated and eaten in China (Deng et al., 2020). Lotus ...

Lotus-root-like MnO/C mesoscale hybrids, featuring nanometer-sized monodisperse metal oxide particles uniformly embedded in a porous carbon matrix, were in situ synthesized by a facile and scalable method: poly(vinyl ...

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Lotus root (*Nelumbo nucifera* Gaertn.) is cultivated extensively in China and is also an aquatic vegetable favored by consumers all over the world is abundant in potassium, iron, ...

Lotus (*Nelumbo nucifera* Gaertn) root is an aquatic perennial plant in the family of Nelumbonaceae, which is commonly consumed in China as a functional vegetable (Li et al., ...

A three-dimensional porous carbon material with ultra-high comparative area is fabricated from lotus root junction by carbonization and activation. When used in ...

In this study, we prepared a lotus root-like nitrogen-doped carbon nanofiber (NCNF) structure, assembled with VN catalysts, to act as a self-supported current collector in LSBs. ...

This study aimed to compare the effects of pulsed electric field (PEF) pretreatment on fresh-cut lotus root and its frying quality with those under blanching (80 °C, 3 min). The ...

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