

Jinzhi Yu. School of Chemistry and Materials Science, Ludong University, Yantai, 264025 P. R. China. Search for more papers by this author. Dr. Baiqing Yuan, ... (NDPCs) were prepared by one-step carbonization of biomass using *Sargassum thunbergii* as a model for energy storage, electroanalysis, and metal ion removal. The pore structures of ...

Abstract. Sodium-ion batteries are considered as one of the most promising energy storage technologies that may replace lithium-ion batteries in the future. NaODFB, a new chelated sodium salt with the specific structural, has not been widely concerned by researchers. In this work, the compatibility of different NaODFB-based ether electrolytes in half-cell/full-cell ...

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Introduction: To achieve a high quality environment for working and living, energy consumption and investment in buildings increase rapidly, leading to a high pollution and cost for cleaning. To retard the rate of energy consumption and improve the environmental quality in buildings/cities, energy and environmental performance in buildings/cities are our eternal theme.

Benefiting of the advantages of low CO<sub>2</sub> emission and high energy performance, indirect expansion solar assisted heat pump system (IDESHP) is one of the most promising and widespread solutions to achieving the global carbon peak and carbon neutral. To the authors' knowledge, despite many valuable studies on the IDESHP, including the technical ...

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Energy storage performance, stability, and charge/discharge properties for practical application. Based on the phase-field simulation results above, we selected BNKT-20SSN as the target material ...

Both energy density and efficiency exhibit excellent stability over the frequency range of 1-100 Hz and temperatures up to 120 °C, along with the superior power density of 280 MW cm<sup>-3</sup>, making the studied BiFeO<sub>3</sub>-SrTiO<sub>3</sub> ceramics potentially useful for high-power energy storage applications.

In this review, we comprehensively describe the energy storage mechanisms of vanadium-based compounds and discuss the application as well as development status of vanadium-based materials in AZIBs. ... Yongli Heng, Zhenyi Gu, Jinzhi Guo, Xinglong Wu. Research Progresses on Vanadium-Based Cathode Materials for Aqueous Zinc-Ion Batteries[J]. Acta ...

Jinzhi Wang. Qingdao Industrial Energy Storage Research Institute, Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences, Qingdao, 266101 China. Center of Materials Science and Optoelectronics Engineering, University of Chinese Academy of Sciences, Beijing, 100049 China.

Jinzhi Dong et al. / Energy Procedia 75 ( 2015 ) 343 -348 In static analysis, 2400 Pa and 5400 Pa uniform loads were respectively loaded on the three PV systems in accordance to IEC 61215 standard. Modal analysis could examine the vibration characteristics (natural frequencies and mode shapes) of a structure, thus it is an essential ...

Abstract: Aqueous zinc-ion batteries (AZIBs) are an attractive choice for large-scale energy storage in the future. However, suitable cathode materials for Zn<sup>2+</sup> storage are lacking. This work finds that the cathode material Na<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> (NVP) with the sodium super ionic conductor (NASICON ...

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