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Porous carbons are widely used in the field of electrochemical energy storage due to their light weight, large specific surface area, high electronic conductivity and structural stability. ... Journal of Materials Chemistry A, 2013, 1: 13648-13654. [17] Hao Q Q, Zhang Z, Mao Y, et al. Catalysts for Li-CO₂ batteries: from heterogeneous to ...

In recent years, high performance energy storage technologies and devices have attracted tremendous research in academia and industry, influenced by the growing demand for electrical energy and excessive consumption of conventional energy sources in current society [1], [2], [3]. Up to date, based on the redox reactions (like lithium batteries, fuel cells and super ...

Mitigating climate change requires a range of measures, including increased use of renewable and low-carbon energy and reducing the CO₂ intensity of fossil energy use. We present an approach designed to address the major deployment barriers to CO₂ capture, utilization, and storage (CCUS) and utility-scale energy storage needed to maximize use of ...

With this peculiar microstructure, remarkable energy-storage performance, including synergistic enhancement of energy-storage density ($W_{rec} \sim 11.2 \text{ J/cm}^3$) and efficiency ($\eta \sim 90.5 \%$), as well as large power density ($P_D \sim 548 \text{ WM/cm}^3$) and short discharge time ($t_{0.9} \sim 27 \text{ ns}$) has been successfully achieved.

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Ying-Hao Eddie Chu National Tsing Hua University, ... Antiferroelectric Anisotropy of Epitaxial PbHfO₃ Films for Flexible Energy Storage. ... J Qi, M Zhang, Y Chen, Z Luo, P Zhao, H Su, J Wang, H Wang, L Yang, ... Cell Reports Physical Science 3 (11), 2022. 33: 2022:

The cost advantage of solar PV allows for coupling with storage to generate cost-competitive and grid-compatible electricity. The combined systems potentially could supply 7.2 PWh of grid-compatible electricity in 2060 ...

The development of high-performance energy storage materials is decisive for meeting the miniaturization and integration requirements in advanced pulse power capacitors. In this study, we designed high-performance $[(\text{Bi}_{0.5}\text{Na}_{0.5})_{0.94}\text{Ba}_{0.06}](1-1.5x)\text{La}_x\text{TiO}_3$ (BNT-BT-xLa) lead-free energy storage ceramics based on their phase diagram. A strategy combining ...

Electrostatic capacitors based on dielectric materials are critical components widely used in electronic devices and electrical power systems because of their distinctive features of ultrahigh power densities (ultrafast ...

Bingbing Yang, Yang Zhang, Hao Pan, Wenlong Si, Qinghua Zhang, Zhonghui Shen, Yong Yu, Shun Lan ... thus synergistically contributing to the energy storage performance. ... and Yong Yu and Shun Lan and Fanqi Meng and Yiqian Liu and Houbing Huang and Jiaqing He and Lin Gu and Shujun Zhang and Chen, {Long Qing} and Jing Zhu and Nan, {Ce Wen} and ...

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Hollow-structured silicon-carbon composite particles are regarded as advanced anode materials for lithium-ion battery (LIBs) due to their superior expansion-buffering capability. However, the hollow structures compromise particle density and its benefits are diminished by the potential pore collapses due to electrode calendaring and cell operation.

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