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C Xu, WY Chen, Y Chen, Y Yang. Journal of Nuclear Materials 509, 644-653, 2018. 32: 2018: Characterization of dislocation loops in CeO2 irradiated with high energy Krypton and Xenon. WY Chen, J Wen, MA Kirk, Y Miao, B Ye, BR Kleinfeldt, AJ Oaks, ... Philosophical Magazine 93 (36), 4569-4581, 2013. 31: 2013:

Advanced Energy Materials is your prime applied energy journal for research providing solutions to today's global energy challenges. Abstract Carbon materials show their importance in electrochemical energy storage (EES) devices as key components of electrodes, such as active materials, conductive additives and buffering framewo...

Polymer dielectrics with a high energy density and an available energy storage capacity have been playing an important role in advanced electronics and power systems. Nevertheless, the use of polymer dielectrics in harsh environments is limited by their low energy density at high temperatures. Herein, zirconium dioxide (ZrO2) nanoparticles were decorated ...

Jiahang Chen, Huichao Lu, Xuan Zhang, Yang Zhang, ... Jiulin Wang. Pages 387-394 View PDF. ... select article Corrigendum to "Significant increase in comprehensive energy storage performance of potassium sodium niobate-based ceramics via synergistic optimization strategy", energy storage materials 45 (2022) 861-868.

With the continuing demand for the minimization of electrochemical energy storage devices, the volumetric performance has become equally important as the gravimetric metrics for rechargeable batteries used in limited spaces. High-capacity anode materials promise to significantly improve the volumetric performance of lithium-ion batteries, but the issues of ...

Both sustainable development in environment and safety of high-power systems require to develop a novel lead-free dielectric capacitor with high energy density (W rec) at low applied electric field this work, a remarkably high W rec of 2.9 J/cm 3 accompanying with energy storage efficiency of 56% was achieved in Ag 0.9 Sr 0.05 NbO 3 ceramic at a low ...

Weijing Chen. Shaanxi University of Science and Technology. ... Energy & Environmental Materials 3 (2), 160-165, 2020. 103: ... Q Sun, S Hong, WJ Chen, B Pang, ZY Du, WB Yang, Z Sun, ... Journal of Leather Science and Engineering 3, 1-23, 2021. 23: 2021: Unmasking the heterogeneity of carbohydrates in heartwood, sapwood, and bark of Eucalyptus.

To achieve the ambitious goal of carbon neutrality, the development of electric vehicles (EVs) has become imperative. [1, 2] Lithium-ion batteries (LIBs) are the most widely used energy storage systems in EVs,

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considering its relative high energy/power density and long cycle life [3]. However, range-anxiety and safety are often quoted among the main issues hindering ...

In general, the recoverable energy-storage density U e of a dielectric depends on its polarization (P) under the applied electric field E, U e = ? P r P m E d P, where P m and P r are maximum polarization and remnant polarization, respectively, and the energy-storage efficiency i is calculated by U e / U e + U loss (fig. S1). To obtain a high U e and i, a large ...

Semantic Scholar extracted view of "Energy storage performance and mechanism of the novel copper pyrovanadate Cu3V2O7(OH)2·2H2O cathode for aqueous zinc ion batteries" by Lin-lin Chen et al. ... (OH)2·2H2O cathode for aqueous zinc ion batteries}, author={Lin-lin Chen and Zhan-hong Yang and Wu Jian and Hongzhe Chen and Jinlei Meng}, journal ...

Hard-soft carbon hybrid materials, harvesting the expanded interlayer spacing of hard carbon and the high conductivity of soft carbon, hold great promise as anode materials for potassium-ion batteries, but efficient and precise structural control remains a major challenge. Herein, hollow porous bowl-like hard-soft carbon hybrid materials (BHSCs) are facilely synthesized by an in ...

Environmentally friendly lead-free dielectric ceramics have attracted wide attention because of their outstanding power density, rapid charge/dischargerate, and superior stability. Nevertheless, as a hot material in dielectric ceramic capacitors, the energy storage performance of Na0.5Bi0.5TiO3-based ceramics has been not satisfactory because of their ...

Zn metal batteries (ZMBs) have been regarded as one of the promising candidates for large-scale energy storage devices, because of its low cost, desirable chemical inertness in air, excellent specific capacity (820 mA h g - 1), and the low potential (-0.76 V vs. SHE) of Zn metal [1]. Water-based electrolytes are usually employed in ZMBs for their merits of ...

Significantly, high-resolution TEM image (Fig. S1c) shows a great deal of micropores in the carbon walls, which in favor of the energy storage for supercapacitors [26]. The generation of micropores is due to the activation of carbon precursors by potassium/potassium oxide from the decomposition of citrate potassium, which is confirmed by TG ...

Prof. Dr. Jun Chen. Key Laboratory of Advanced Energy Materials Chemistry, Renewable Energy Conversion and Storage Center, College of Chemistry, Nankai University, Tianjin, 300071 P. R. China. ... Electrolyte chemistry is critical for any energy-storage device. Low-cost and sustainable rechargeable batteries based on organic redox-active ...

Prof Chen Wei"s Group, Surface and Interface Lab, National University of Singapore. Home; Research; Members ... Electrocatalysis for Energy Storage and Conversion B.Sc. Materials Science and Engineering: 2016, Hefei University of Technology, China ... Ms. Yang Yu Lu (Master by-course Student, 2011-2013) Mr.

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Huang Ming Yang (Master by-course ...

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Dielectric ceramic capacitors with high energy storage performance are indispensable components in high-power pulse electronic systems. Herein, a collaborative optimization design is employed to achieve excellent energy storage performance in rare-earth oxides modified 0.76(0.94Bi 0.5 Na 0.5 TiO 3-0.06BaTiO 3)-0.24Sr 0.7 Bi 0.2 TiO 3 (BNBT ...

Lead-free dielectric ceramics can be used to make quick charge-discharge capacitor devices due to their high power density. Their use in advanced electronic systems, however, has been hampered by their poor energy storage performance (ESP), which includes low energy storage efficiency and recoverable energy storage density (Wrec). In this work, we ...

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