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Overview

Lead-free (1-x)BaTiO3-xBi(Mg1/2Zr1/2)O3 ((1-x)BT-xBMZ) ceramics with perovskite structure were synthesized by solid-state reaction methods. (1-x)BT-xBMZ solid solution transforms from tetragonal (x≤0.04.

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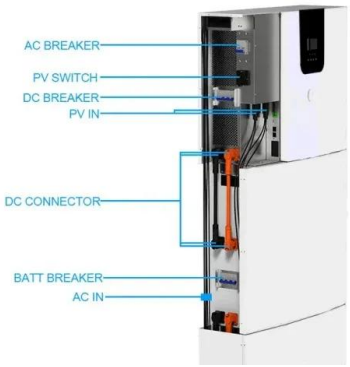

Multiscale Structure Engineering for High-Performance Pb-Free

ConspectusThe increasing world energy crisis drives humans to harvest the energy in nature as much as possible without heavily damaging the environment. However, ...

Partitioning polar-slush strategy in relaxors leads to large energy

Abstract Relaxor ferroelectric (RFE) films are promising energy-storage candidates for miniaturizing high-power electronic systems, which is credited to their high energy density (Ue) ...

Lead-free ferroelectric materials: Prospective applications

Ferroelectric materials have diverse functionalities that enable numerous applications, ranging from piezoelectric sensing and dielectric energy storage to electrocaloric ...

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5. Xiang Cuili, Jiang Dadi, She Zhe, Yongjin Zou*, Chu Hailiang, Qiu Shujun, Zhang Huanzhi, Xu Fen, Tang Chengying, Sun Lixian*, Hydrogen generation by hydrolysis of alkaline sodium ...

Advances in bulk ferroelectrics over the past decade

Over the past decade, ferroelectric research has witnessed significant advancements, including theoretical calculations across various scales, material design and ...

Superior energy storage BaTiO

Superior energy storage BaTiO3-based amorphous dielectric film with polymorphic hexagonal and cubic nanostructures Xuewen Jiang a b, Jiahao Lv a, Zibin Chen ...

Perovskite lead-free dielectrics for energy storage applications

The projected increase in world energy consumption within the next 50 years, coupled with low emission requirements, has inspired an enormous effort t...

Prof. ZHANG Shujun , Department of Chemistry

Prof. Zhang's research focuses on electronic materials, with particular emphasis on dielectric and ferroelectric materials for applications in transducers, sensors, electrocaloric, energy ...

Yang, Letao, Kong, Xi, Cheng, Zhenxiang, Zhang, Shujun (2019) ...

Yang, Letao, Kong, Xi, Cheng, Zhenxiang, Zhang, Shujun (2019) Ultra-high energy storage performance with mitigated polarization saturation in lead-free relaxors.

The Large-Scale Manufacturing of Polymer ...

Polymer dielectric capacitors are widely used in microelectronics to industrial systems, such as oil extraction and electronic circuits, due to their good reliability, excellent voltage endurance, and ...

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Optimized energy storage properties of BaTiO3-based ...

ABSTRACT Energy storage dielectric ceramics play a more and more important role in power or electronics systems as a pulse power material, and the development of new technologies has ...

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Partitioning polar-slush strategy in relaxors leads to large ...

Relaxor ferroelectric (RFE) films are promising energy-storage candidates for miniaturizing high-power electronic systems, which is credited to their high energy density (Ue) and efficiency

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High-performance dielectric energy-storage ceramics are beneficial for electrostatic capacitors used in various electronic systems. However, the trade-off between ...

Shujun ZHANG , Professor; Senior Scientist , PhD

Dielectric energy storage polymers play a vital role in advanced electronics and electrical systems, due to their high breakdown strength, excellent reliability, and easy fabrication.

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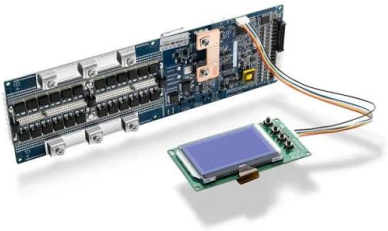
Lead-free dielectric ceramics with high recoverable energy density are highly desired to sustainably meet the future energy demand. AgNbO3-based lead-free antiferroelectric ceramics with double ...



Ultrahigh Energy-Storage in Dual-Phase Relaxor Ferroelectric ...

High-performance dielectric energy-storage ceramics are beneficial for electrostatic capacitors used in various electronic systems. However, the trade-off between reversible polarizability and ...

Partitioning polar-slush strategy in relaxors leads to ...

Relaxor ferroelectric (RFE) films are promising energy-storage candidates for miniaturizing high-power electronic systems, which is credited to their high energy density (Ue) and efficiency. However, ...

Superior energy storage BaTiO>3>-based amorphous dielectric ...

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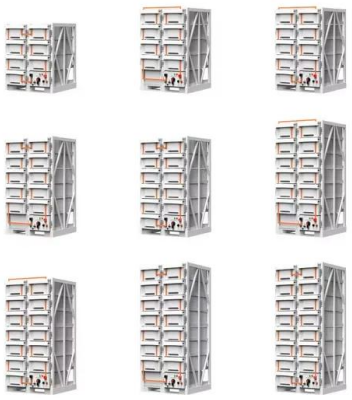
Ultrahigh Energy-Storage in Dual-Phase Relaxor ...

A novel strategy is presented to enhance the dielectric energy-storage performance by constructing a dual-phase structure through in situ phase separation. By capitalizing on the synergistic effects



Hydrophilic-Zincophobic Separator Enabling by ...

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Dielectric energy storage polymers play a vital role in advanced electronics and electrical systems, due to their high breakdown strength, excellent reliability, and easy fabrication.

dblp: Shujun Zhang (disambiguation)

Leiqi Zhang, Yanjie Yu, Bo Li, Xiao Qian, Shujun Zhang, Xiangjin Wang, Xuesong Zhang, Minyou Chen: Improved Cycle Aging Cost Model for Battery Energy Storage Systems Considering ...

Enhanced energy storage and fast discharge properties of ...

Therefore (1-x)BT-xBMZ solid solution with high energy density and efficiency, good temperature stability and fast discharge speed, is promising candidate for high power applications.

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