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Overview

陈中辉，男，1990年生，复旦大学高分子化学与物理博士，哈工大硕士研究生行业导师、哈工大郑州研究院先进光电技术研究院新能源半导体研究团队副研究员。目前主要研究方向电化学储能材料与器件。目前已主持各类纵/横项目7项，涵盖河南省卓越工程师培养工程、郑州市优秀青年科技人才、国家自然科学基金青年科学基金、中国博士后科学基金面上资助（一等）、企业横向研发课题等项目。

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Chemical adsorption on 2D dielectric nanosheets for matrix free

Article Chemical adsorption on 2D dielectric nanosheets for matrix free nanocomposites with ultrahigh electrical energy storage Jie Chen a, Zhonghui Shen b, Qi ...

Ultrahigh Capacitive Energy Storage in a ...

Ultrahigh Capacitive Energy Storage in a Heterogeneous Nanolayered Composite Xinhui Li, Xiaoxiao Chen, Jian W ang, Xin Zhen, Chunyu Lei, Zhonghui Shen, Xin Zhang,* and Ce-W en Nan*

Grain-orientation-engineered multilayer ceramic capacitors for ...

Here, we propose a strategy to increase the breakdown electric field and thus enhance the energy storage density of polycrystalline ceramics by controlling grain orientation.

Chemical adsorption on 2D dielectric nanosheets for matrix free

These factors all contribute to the considerable

enhancement of the dielectric strength and electrical energy storage capability. Interestingly, by using reversible chemical ...

Outside-in directional sodium deposition through self-supporting

The increasing demands for grid-scale energy storage and portable electronic devices have emphasized the importance of cost-effective energy storage and conversion ...

High-entropy enhanced capacitive energy storage

Electrostatic capacitors can enable ultrafast energy storage and release, but advances in energy density and efficiency need to be made. Here, by doping equimolar Zr, Hf ...

Ultrahigh Energy Density of Antiferroelectric PbZrO3-Based Films ...

Dielectric capacitors play a vital role in advanced electronics and power systems as a medium of energy storage and conversion. Achieving ultrahigh energy density at low electric field/voltage, ...

Machine learning in energy storage materials

Here, taking dielectric capacitors and lithium-ion batteries as two representative examples, we review substantial advances of machine learning in the research and ...

CoSe2 nanodots confined in multidimensional porous ...

Furthermore, its efficient Na+ storage mechanisms were proved by the reaction kinetics analysis and density functional theory calculations. Our work provides a new electrode ...

High-entropy enhanced capacitive energy storage

Electrostatic dielectric capacitors are essential components in advanced electronic and electrical power systems due to their ultrafast charging/discharging speed and high power density. A ...

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Li J L, Shen Z H, Chen X, et al. Grain-orientation-engineered multilayer ceramic capacitors for energy storage applications. Nature materials, 2020, 19 (9): 999-1005.

Dong-Xu Li (0000-0002-4251-0549)

Remarkably enhanced dielectric stability and energy storage properties in BNT--BST relaxor ceramics by A-site defect engineering for pulsed power applications Journal of Advanced ...

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6. Xuewen Jiang, Jiahao Lv, Zibin Chen, Zhonghui Shen, Jian Wang, Zhao Deng, Minghe Cao, Zhonghua Yao, Shujun Zhang*, Hanxing Liu, Hua Hao*, Superior Energy Storage BaTiO3-based ...

High-entropy enhanced capacitive energy storage

Bingbing Yang, Yang Zhang, Hao Pan, Wenlong Si, Qinghua Zhang, Zhonghui Shen, Yong Yu, Shun Lan, Fanqi Meng, Yiqian Liu, Houbing Huang, Jiaqing He, Lin Gu, Shujun Zhang, Long ...

Ultrahigh Capacitive Energy Storage in a Heterogeneous ...

Ultrahigh Capacitive Energy Storage in a Heterogeneous Nanolayered Composite Xinhui Li, Xiaoxiao Chen, Jian W ang, Xin Zhen, Chunyu Lei, ...

Zhonghui Chen (0000-0002-4241-9315)

ORCID record for Zhonghui Chen. ORCID provides an identifier for individuals to use with their name as they engage in research, scholarship, and innovation activities.

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

Ultrahigh Energy-Storage in Dual-Phase Relaxor Ferroelectric Ceramics Advanced Materials (IF 26.8) Pub Date : 2024-10-10, DOI: 10.1002/adma.202410088 Xin Xiong 1, Hui Liu 1, Ji ...

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Jie Chen, Zhonghui Shen, Qi Kang, Xiaoshi Qian, Shengtao Li, Pingkai Jiang, Xingyi Huang*, Chemical adsorption on 2D dielectric nanosheets for matrix free nanocomposites with ultrahigh ...

Double-Holey-Heterostructure Frameworks Enable Fast, Stable, ...

Deliberate design of advantageous nanostructures holds great promise for developing high-performance electrode materials for electrochemical energy storage. However, ...

Double-Holey-Heterostructure Frameworks Enable ...

Deliberate design of advantageous nanostructures holds great promise for developing high-performance electrode materials for electrochemical energy storage. However, it remains a tremendous challen

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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 ...

High-entropy enhanced capacitive energy storage -- ??????

Bingbing Yang, Yang Zhang, Hao Pan, Wenlong Si, Qinghua Zhang, Zhonghui Shen, Yong Yu, Shun Lan, Fanqi Meng, Yiqian Liu, Houbing Huang, Jiaqing He, Lin Gu, Shujun Zhang, Long ...

Zhonghui Chen's research works , Henan University, Kaifeng and ...

Exploring electrode materials with well-defined nanostructures and good flexiblity is an efficient approach for achieving high-performance and flexible energy storage systems.

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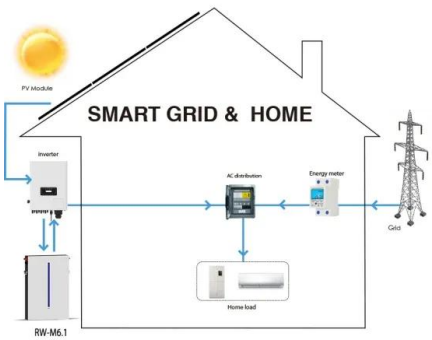
Chen X, Shen Z H*, Liu R L, et al. Programming Polarity Heterogeneity of Energy Storage Dielectrics By Bidirectional Intelligent Design. Advanced Materials, 2024: 2311721.

High-entropy enhanced capacitive energy storage,Nature ...

Electrostatic dielectric capacitors are essential components in advanced electronic and electrical power systems due to their ultrafast charging/discharging speed and high power density. A ...

?????????????????? Na ?????????????,Energy Storage ...

?????????????????? Na ?????????????? Energy Storage Materials (IF 20.2) Pub Date : 2024-10-18, DOI: 10.1016/j.ensm.2024.103840 Wei ...



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

Request PDF , Ultrahigh Energy-Storage in Dual-Phase Relaxor Ferroelectric Ceramics , High-performance dielectric energy-storage ceramics are beneficial for electrostatic capacitors used

??????????????????? Na ???? ...

Constructing high-rate sodium anodes promotes the progress of high energy/power density Na metal batteries. However, it lacks effective strategies to regulate Na deposition behaviors ...

Two-dimensional polymer nanosheets for efficient energy storage ...

As a promising graphene analogue, two-dimensional (2D) polymer nanosheets with unique 2D features, diversified topological structures and as well as tunable electronic ...

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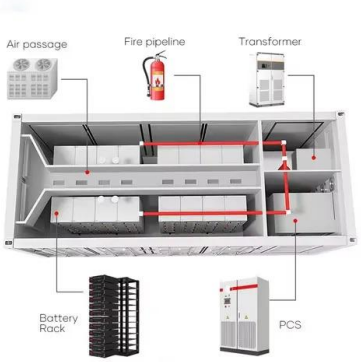
Jie Chen, Zhonghui Shen, Qi Kang, Xiaoshi Qian, Shengtao Li, Pingkai Jiang, Xingyi Huang*, Chemical adsorption on 2D dielectric nanosheets for matrix free nanocomposites with ultrahigh electrical energy storage, ...



Outside-in directional sodium deposition through self-supporting

Outside-in directional sodium deposition through self-supporting gradient fluorinated magnesium alloy framework toward high-rate anode-free Na batteries Energy Storage Materials (IF 20.2) ...

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