

# Zhaofeng energy storage





## Overview

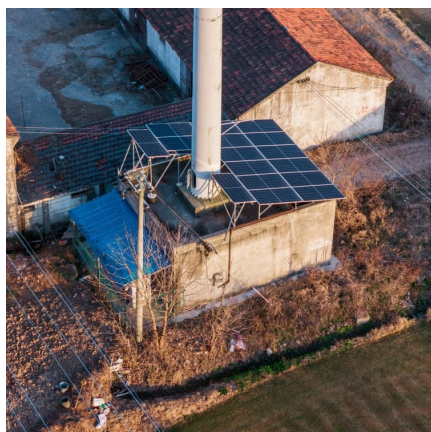
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Phase change materials (PCMs) have garnered significant attention as a prospective solution for photothermal energy storage, attributed to their notable energy density. Nonetheless, the constrained thermal.



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### **Sustainable upcycling of mixed spent cathodes to a high-voltage**

Here, the authors report a sustainable upcycling approach, transforming degraded LiFePO<sub>4</sub> and Mn-rich cathodes into a high-voltage polyanionic material with an ...

### **Lifecycle Analysis of Coal-fired Power Plants with CCS in China**

Carbon capture and storage (CCS) is a potential CO<sub>2</sub> emission mitigation technology for coal-fired power plants. In order to assess the mitigation effect, we carried out a ...



### **Reversible proton co-intercalation boosting zinc-ion adsorption ...**

Rechargeable aqueous zinc-ion batteries present low-cost, safe, and environmentally-friendly battery technology but suffer from the limited choice of cathode materials because of the ...

**2021-----????(???)**

Zhiguo Ren, Yuanhe Sun, Yaru Yin, Jiaqian Zhang, Xiaochuan Ren, Yuanxin Zhao, Zhaofeng Liang, Ping Huai, Fei Song, Zheng Jiang, Metallic V<sub>5</sub>S<sub>8</sub> microparticles with tunnel-like ...



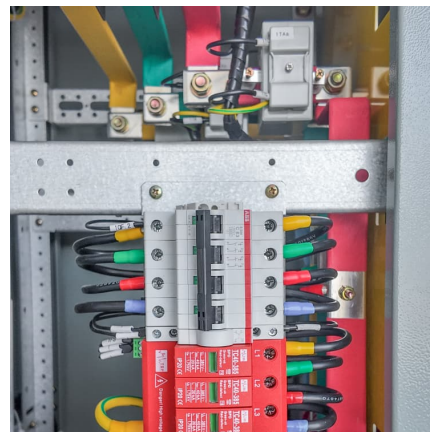
### Mechanical performance of polyurethane polymer mortar--A ...

This work aims to investigate the feasibility of polyurethane polymer mortar (PPM) as a sealing material for compressed air energy storage (CAES) caverns. The effect of polymer content, ...



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14.Zhenbin Wang, Zhidong Ma, Weisheng Liu\*, Hui Zhou, Wenxiang Wang, Jika Sang, Shanshan Zhao, and Zhaofeng Wang\*, Multi-mode luminescent color self-evolution in one phosphor with ...



### Oriented High Thermal Conductivity Solid-Solid Phase Change ...

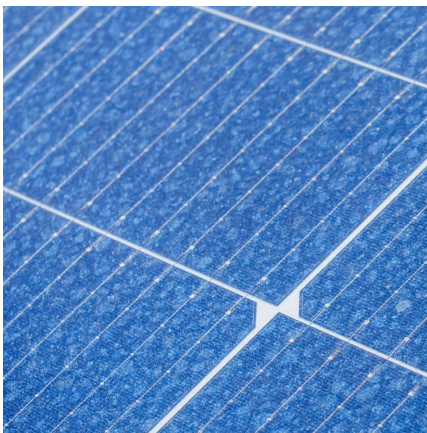
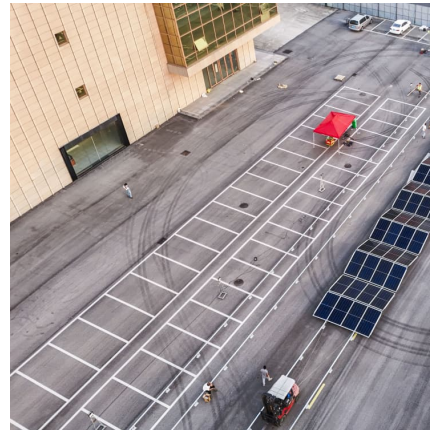
Request PDF , Oriented High Thermal Conductivity Solid-Solid Phase Change Materials for Mid-Temperature Solar-Thermal Energy Storage , As the global energy crisis ...





## DOISerbia

Zhou, Zifan; Tu, Guofu; Xu, Feng; Song, Zhaofeng; Li, Na - Preparation and properties of silicate inorganic exterior wall insulation based on thermal energy storage - Thermal Science

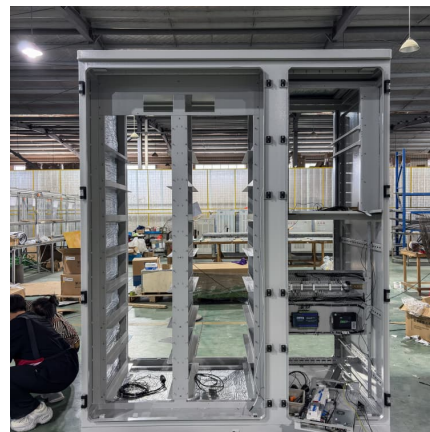


## Zhaofeng Ouyang's research works , Shanghai Jiao Tong ...

The intrinsic intermittence of solar energy raises the necessity for thermal energy storage (TES) systems to balance the contradiction between energy supply and demand energy.

## Guidelines for safe and effective carbon capture and storage in ...

Although Chinese companies have some level of understanding of carbon capture and storage (CCS) unit technology, the lack of knowledge and experience ...



## Programmable DNA Interphase Layers for High-Performance ...

Abstract Anode-free lithium (Li) metal batteries are promising candidates for advanced energy storage, attributed to their appealing characteristics such as high energy ...



**Harnessing organic electrolyte for non-corrosive and wide ...**

Rechargeable sodium-chlorine (Na-Cl<sub>2</sub>) batteries show great promise in grid energy storage applications due to their high electrochemical performance. However, the use of highly ...



**Publications , Guangmin Zhou**

????Energy Storage Materials??????,??????????????  
?(??)????????????????????????????????????? ...

**Direct regeneration of degraded lithium-ion battery cathodes with ...**

Sustainable recycle of spent Li ion batteries is an effective strategy to alleviate environmental concerns and support resource conservation. Here, authors report the direct ...



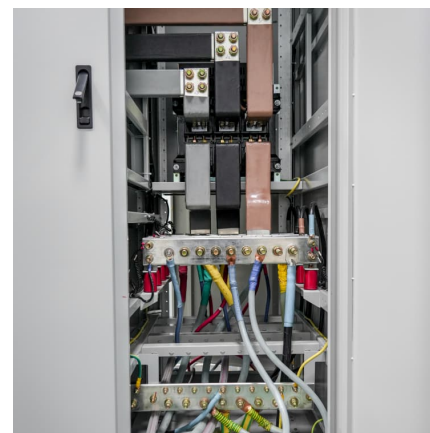


Zhaofeng WANG , Associate Professor , Ph. D.

Zhaofeng WANG, Associate Professor , Cited by 4,706 , of Chinese Academy of Sciences, Beijing (CAS) , Read 102 publications , Contact Zhaofeng WANG

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**Harnessing organic electrolyte for non-corrosive and wide ...**

Rechargeable sodium-chlorine (Na-Cl<sub>2</sub>) batteries show great promise in grid energy storage applications due to their high electrochemical performance. However, the use ...

**Oriented High Thermal Conductivity Solid-Solid Phase Change ...**

Overall, this work provides a technological route to the large-scale fabrication of mid-temperature solar energy storage materials with high thermal conductivity, high phase change enthalpy, ...



[Zhaofeng XU, Tsinghua University, Beijing, TH](#)

Non-fossil energy, especially wind power, and carbon capture and storage (CCS) are considered as the critical methods to mitigate CO2 emissions. In the future the coal-fired power plant with ...



### Harnessing organic electrolyte for non-corrosive and wide

Rechargeable sodium-chlorine (Na-Cl<sub>2</sub>) batteries hold promise for grid energy storage but face challenges of corrosive thionyl chloride (SOCl<sub>2</sub>) electrolytes. Here, authors ...



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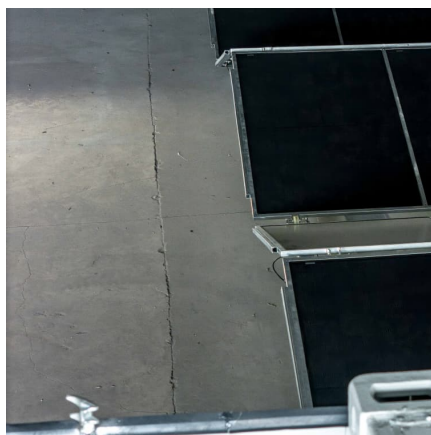
????????????????(Xinjiang Jinhui Zhaofeng Energy Co.,Ltd.)????????????????,???500????? ...





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Carboxymethyl chitosan-derived carbon foam with hierarchical pores tuned by potassium tetraborate and potassium carbonate for supercapacitors, Journal of Energy ...



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The results demonstrate the potential of phase-change storage technology to significantly reduce the energy consumption and costs associated with cold ...

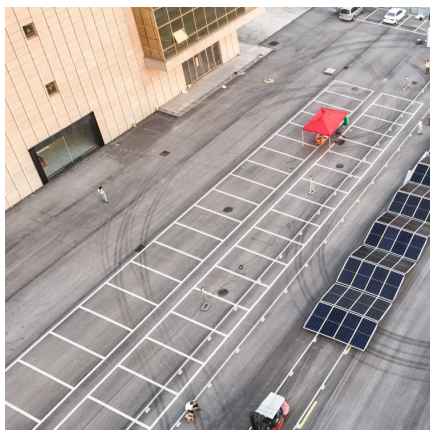
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Zhong-Yuan Wang, Han-Qi Ye, Kai-Feng Wang, Fangping Ouyang, Zhaofeng Wu, Chuan-Jia Tong; Superior photovoltaic performance of BF4-doped perovskite rationalized by ab initio ...



**Thermal-responsive, super-strong, ultrathin firewalls for ...**

High-performance, reliable lithium-ion batteries (LIBs) have become vital for powering devices such as portable electronics, electric vehicles (EVs), and stationary energy ...



### [Sustainable upcycling of mixed spent cathodes to a ...](#)

LFP batteries have been widely used in energy storage stations and electric vehicles due to their good thermal stability and low manufacturing cost 4, 9, 10. ...



### **Synthesis of covalent organic framework materials and their ...**

Due to their large surface area, high intrinsic pore space, good crystallization properties, high stability, and designability of the resultant units, COFs are widely studied and used in the fields ...

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