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Are aqueous Rechargeable Zn batteries sustainable?
Aqueous rechargeable Zn batteries incorporating MnO 2 cathodes possess favourable sustainability propertiesand are being considered for low-cost,high-safety energy storage. However,unstable electrode structures and unclear charge storage mechanisms limit their development.

Who is Chen Qiang?
Join ResearchGate to contact this researcher and connect with your scientific community. Chen Qiang currently works at the School of Materials Science and Engineering, Zhejiang University of Technology. Chen does research in Electrochemistry and Materials Chemistry. [...] [...]

Are carbon-based nanomaterials the future of energy conversion & storage?
With the availability of high specific surface area (SSA),well-balanced pore distribution,high conductivity,and tunable wettability,carbon-based nanomaterials are highly expectedas advanced materials for energy conversion and storage to meet the increasing demands for clean and renewable energies.

Adv. Energy Mater. 2024, 14, 2302261. (4) Yuhang Hu, Hao Li, Zidong Chen, Wanglai Cen, Qiang Wang, Yungui Chen, Ali Davoodi, Wei Liu*. Li-Alloy texture creates in ...

Chen Qiang currently works at the School of Materials Science and Engineering, Zhejiang University of Technology. ... Zn-ion batteries featuring an alkaline electrolyte became an important energy ...

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Aqueous zinc batteries are ideal candidates for grid-scale energy storage because of their safety and low-cost aspects. However, the production of large-format aqueous Zn ...

As one of the most promising energy storage systems, secondary batteries are attracting much attention. ... 19(8):e2205315. doi: 10.1002/smll.202205315. Epub 2022 Dec 5. Authors Yu ...

The 39 common mechanism of electromagnetic wave (EMW) absorbing materials is to absorb EMW energy and 40 convert it to heat energy through loss mechanisms such as ...

Lithium-sulfur (Li-S) batteries, which rely on the reversible redox reactions between lithium and sulfur, appears to be a promising energy storage system to take over from the conventional lithium-ion batteries for next-generation ...

This review focuses on the research progress of sulfide solid electrolytes.Two systems of (100-x)Li 2 S-xP 2 S 5 and Li 2 S-M x S y-P 2 S 5 are systematically reviewed from ...

In this work, the nitrogen-doped TiO 2 photocatalyst is synthesized and applied in a microfluidic all-vanadium photoelectrochemical cell for enhancing the solar energy storage. ...

4. Xiaohong Jiao, Rong Chen*, Xun Zhu, Qiang Liao, Dingding Ye, Biao Zhang, Liang An, Hao Feng, Wei Zhang, A microfluidic all-vanadium photoelectrochemical cell for solar energy storage, Electrochimica Acta, 2017, ...

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Aqueous ammonium ion hybrid supercapacitor (A-HSC) combines the charge storage mechanisms of surface adsorption and bulk intercalation, making it a low-cost, safe, and sustainable energy storage candidate. ...

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Barium titanate (BaTiO 3, BT) is widely used in capacitors because of its excellent dielectric properties.However, owing to its high remanent polarisation (P r) and low dielectric ...

Chen Xiang; Qiang Zhang; ... With the growing demand for energy storage technologies, current batteries have significant room for improvement. To find battery materials that offer high ...

Tough and redox-mediated alkaline gel polymer electrolyte membrane for flexible supercapacitor with high energy density and low temperature resistance. Journal of Membrane Science, 2022, 650, 120386. ...

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A systematic review on ZHSCs, the novel energy storage devices, is necessarily desired to spur the development of ZHSCs, but is still barren. ... Qiang Chen obtained his B.S. ...

Gaussian noise injection method is used to denoise the voltage and current signals. Empirical mode decomposition method is used to process the voltage signal. A ...

Encapsulation of Na₄MnV (PO₄)₃ in robust dual-carbon framework rendering high-energy, durable sodium storage

Chen, Xizhang Wang, Qiang Wu, Hui Yang, Lijun Yang *, Zheng Hu *. Construction of hierarchical FeNi 3 @(Fe,Ni)S 2 core-shell ... Qiang Wu, Lijun Yang, Xizhang ...

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Based on the spatial resource endowment of abandoned mines" upper and lower wells and the principle characteristics of the gravity energy storage system, an intelligent ...

With the availability of high specific surface area (SSA), well-balanced pore distribution, high conductivity, and tunable wettability, carbon-based nanomaterials are highly expected as advanced materials for energy ...

Xiaohong Jiao, Rong Chen *, Xun Zhu, Qiang Liao, Dingding Ye, Biao Zhang, Liang An, Hao Feng, Wei Zhang, A microfluidic all-vanadium photoelectrochemical cell for ...

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In this work, a microfluidic all-vanadium photoelectrochemical cell (mVPEC) was designed for the solar energy storage. The miniaturization design could enhance the photon ...

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Applications of Lithium-Ion Batteries in Grid-Scale Energy Storage Systems Tianmei Chen1 · Yi Jin 1 · Hanyu Lv2 · Antao Yang2 · Meiyi Liu1 · Bing Chen1 · Ying Xie 1 · ...

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