

Environmentally friendly lead-free dielectric ceramics have attracted wide attention because of their outstanding power density, rapid charge/discharge rate, and superior stability. Nevertheless, as a hot material in dielectric ceramic capacitors, the energy storage performance of $\text{Na}_0.5\text{Bi}_{0.5}\text{TiO}_3$ -based ceramics has been not satisfactory because of their ...

Strong solvent coordination effect inducing gradient solid-electrolyte-interphase formation for highly efficient Mg plating/stripping Energy Storage Materials (IF 18.9) Pub Date : 2023-08-26, DOI: 10.1016/j.ensm.2023.102939

Minor stimulation of soil carbon storage by nitrogen addition: A meta-analysis ... A meta-analysis Meng Lu a,b,c, Xuhui Zhou b,*, Yiqi Luo a,b, Yuanhe Yang b, Changming Fang a, Jiakuan Chen a, Bo Li a,** a Coastal Ecosystems ...

However, how climate warming affects plant C storage globally and key drivers determining the response of plant C storage to climate warming remains unclear, causing uncertainty in climate projections. We performed a comprehensive meta-analysis, compiling 393 observations from 99 warming studies to examine the global patterns of plant C storage ...

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Aqueous zinc-ion batteries (AZIBs) hold great promise for large-scale energy storage applications, however, their practical use is significantly hindered by issues such as ...

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This review presents the basic principles of energy storage in dielectric ceramics and introduces multi-scale synergic optimization strategies according to the key factors for superior energy storage performance. ... Xuhui Fan a, b, c, Jing ... Zhou ZY, et al. Combining high energy efficiency and fast charge-discharge capability in novel ...

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Ping Hu, Ting Zhu, Xuanpeng Wang, Xufeng Zhou, Xiujuan Wei, Xuhui Yao, Wen Luo, Changwei Shi, Kwadwo Asare Owusu, Liang Zhou, Aqueous zinc-ion batteries (ZIBs) represent an attractive choice for stationary energy storage.

Xuhui Yao. State Key Laboratory of Advanced Technology for Materials Synthesis and Processing, International School of Materials Science and Engineering, Wuhan University of Technology, Hubei, Wuhan, 430070 China ... These properties represent the potential of soft carbon for achieving high-energy, high-rate, and low-cost energy storage ...

@article{Du2023StrongSC, title={Strong solvent coordination effect inducing gradient solid-electrolyte-interphase formation for highly efficient Mg plating/stripping}, author={Yao Li Du and Yanmin Chen and Shuangshuang Tan and Jinlong Chen and Xue Guang Huang and Lianmeng Cui and Juncai Long and Zhongting Wang and Xuhui Yao and Bo ...

With the increasing demand for large-scale energy storage, high-safety and low-cost rechargeable zinc-ion batteries (ZIBs) have been regarded as potential substitutes for ...

1 Advanced Fiber-Shaped Aqueous Zn Ion Battery Integrated with Strain Sensor Haozhe Zhang 1, Ting Xiong *, Tianzhu Zhou¹, Xiao Zhang, Yuntian Wang, Xuhui Zhou¹, and Lei Wei^{1*} ¹School of Electrical and Electronic Engineering, Nanyang Technological University, 639798, Singapore Abstract: Multifunctional batteries have attracted increasing attention, offering ...

Zhang 1, Xuhui Zhou, Yanting Liu, and Lei Wei^{1*} ¹School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore . 1. Experimental Section ... Energy Storage Mater. 2020;25:426-435. 5. Chen L, Bao JL, Dong X, et al. Aqueous Mg-Ion Battery Based on Polyimide

Semantic Scholar extracted view of "Enhanced the energy storage performance in AgNbO₃-based antiferroelectric ceramics via manipulation of oxygen vacancy" by Jian Zhou et al. ... Xuhui Fan Jing Wang Hao Yuan Lin Chen Lei Zhao K. Zhu. Materials Science, Engineering.

Therefore, a simple device for both energy harvesting and storage, without complex fabrication process or

rigid working condition, is highly needed. As an important part of water cycle on earth, moisture is a renewable and unlimited energy source [29].

Multilayer ceramic capacitors in energy-storage applications have received increasing attention due to the advantages of high power density, low drive voltage and fast charge/discharge rates. However, the low energy density is a great challenge which limits the applications of multilayer ceramic capacitors. Here, an antiferroelectric $\text{Pb}_{0.98}\text{La}_{0.02}(\text{Zr}_x\text{Sn}_{1-x})_{0.995}\text{O}_3$ (PLZS) ...

Aqueous zinc batteries exhibit promises for energy storage systems because of their attractive advantages including low cost and high safety. However, Zn anodes often face ...

T1 - Minor stimulation of soil carbon storage by nitrogen addition. T2 - A meta-analysis. AU - Lu, Meng. AU - Zhou, Xuhui. AU - Luo, Yiqi. AU - Yang, Yuanhe. AU - Fang, Changming. AU - Chen, Jiakuan. AU - Li, Bo. N1 - Funding Information: The authors thank Drs. David Schimel, Peter Curtis, and Knute Nadelhoffer for their suggestions.

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Aqueous zinc-ion batteries (AZIBs) hold great promise for large-scale energy storage applications, however, their practical use is significantly hindered by issues such as zinc dendrite growth and hydrogen evolution. To address these challenges, we propose a high-entropy (HE) electrolyte design strategy that incorporates multiple zinc salts, aimed at enhancing ion ...

Xuhui Zhou Soil microbes are essential components in terrestrial ecosystem, which play crucial roles in biogeochemical cycling, such as nutrient transformation and energy flow.

Xuhui Zhou. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore, Singapore. Search for more papers by this author. ... Moreover, by employing a rocking-chair energy storage mechanism, the fiber-shaped battery offers a high specific capacity of 42 mAh cm⁻³ at 0.5 A cm⁻³, ...

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