Ma bingbing energy storage

Our results reveal that regulating the atomic configurational entropy introduces favourable and stable microstructural features, including lattice distorted nano-crystalline ...

J. Energy Storage 95, 112591 (2024) Izabela A. Wrona, Pawe Niegodajew, Yinwei Li, and Artur P. Durajski ... Shijie Liu, Hui Wang, Fengxian Ma, Hui Du and Bingbing Liu Two-dimensional ...

,,Email:liangweima@ecust .cn:130,,308: ...

Energy storage dielectric capacitors play a vital role in advanced electronic and electrical power systems 1,2,3.However, a long-standing bottleneck is their relatively small ...

Energy Storage 64 (2023) 107202 10. Zehao Zhang, Zheng Wang*, Haibo Li*, The origin of selective electro-adsorption of cations by few-layered 2D MXene electrode. Desalination 548 (2023) 116295 11. Chao Xu, Haibo Li*, Enhancing ...

Nano Energy, 2023,112,108462. 5.Luyu Li, Ruizhe Wu, Hancheng Ma, Bingbing Cheng, Shaoqing Rao, Sheng Lin, Chunbo Xu, Lei Li, Yao Ding* and Liqiang Mai*, Toward the High-Performance Lithium Primary Batteries by ...

Despite contributing a promising energy storage system due to its high theoretical energy density of 2567 Wh Kg-1 and economic applicability, liquid electrolyte based lithium-sulfur (Li-S ...

Here, guided by phase-field simulations, we propose a new strategy to frustrate antipolar ordering in antiferroelectrics by incorporating non-polar or polar components. Our experiments ...

Reliability evaluation of power systems in the presence of energy storage system as demand management resource 2019 - Yang, Hejun,Zhang, Yeyu,Ma, Yinghao,... - ?International ...

Global Energy Interconnection, 2024, 7(5): 590-602. l Hejun Yang, Jingyin Wang, Yinghao Ma, Dabo Zhang, and Josep M. Guerrero. Battery energy storage system planning for ...

TL;DR: Crosslinked polymer nanocomposites that contain boron nitride nanosheets have outstanding high-voltage capacitive energy storage capabilities at record temperatures and ...

Tabassum, Tabassum and Chen, Weibin and Ma, Bingbing and Feng, Long and Yang, Xiaoxuan and Li, Yuguang and Lucero, Marcos and Lyons, Mason and Feng, Zhenxing ...

[7] Gan Qu, Bingbing Tian, Chenliang Su et al., Bubble template-based fabrication of hollow CoMoO 4 spheres for energy storage, Chem. Commun. 2018, 54, 10355-10358. [8] ...

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CHEN Bingbing, ZHAO Jinwen, MA Jun, CUI Guanglei. Relationship of ion transport and pressure in PEO/LITFSI solid electrolytes[J]. Energy Storage Science and ...

Dielectric-based energy storage capacitors characterized with fast charging and discharging speed and reliability1-4 play a vital role in cutting-edge electrical and electronic ...

Experimentally, we therefore achieved an ultrahigh energy density of 131 J cm -3 with a high efficiency of 81.6% in the microcrystal-amorphous dual-phase Bi 3 NdTi 4 O 12 films. This ...

Since ferroelectric domains are central to polarization hysteresis loops and, hence, energy storage performances, domain engineering has been widely used in dielectric thin films. In this Perspective, we focus on the most ...

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Jun Ma, Bingbing Chen, Longlong Wang, Guanglei Cui By replacing traditional liquid organic electrolyte with solid-state electrolyte, the solid-state lithium batteries powerfully ...

Changyu Ma*, Manikanta Grandhi, Philip Mallory, Zhichao Liu, Bingbing Li, Bruce Kang, "Directed Energy Deposited SS316L with Nano-Y2O3 Additions: Powder Processing, ...

?? SCI300,Science?Nat. Mater.?Nat.Energy?Nat. Comunn.?Phys.Rev. Lett., Adv. Mater100,SCI30000?30,20? ...

Yinghao Ma [...] Bingbing Dong; The Photovoltaic (PV) and Battery Energy Storage Systems (BESS) integrated generation system is favored by users, because of the policy support of PV ...

Energy storage performance of the entropy-modulated films a, Energy density and efficiency as functions of electric field up to Eb. b, Comparison of the energy density and efficiency of our films ...

Here, guided by phase-field simulations, we propose a new strategy to frustrate antipolar ordering in antiferroelectrics by incorporating non-polar or polar components. Our ...

With the booming development of high technology, the issue of energy consumption has become a growing concern [1].The limited storage of traditional fossil energy ...

6. "Bidirectionally Compatible Buffering Layer Enables Highly Stable and Conductive Interface for 4.5 V Sulfide-Based All-Solid-State Lithium Batteries", Longlong ...

I work on dielectric materials for energy storage with the incorporation of precise growth techniques, advanced characterizations and multiscale computational methods.

(30) Chengxin Peng, Zhihong Chen, Hong Zhang, Zhongxin Liu, Jiangfeng Zheng, Jiangqi Zhou, Zhanhui Jia, Quanhai Zhang, Chunyan Lai*, Yuping Wu*, and Wei Tang*, Stress-Tolerant ...

A major challenge, however, is how to improve their energy densities to effectuate the next-generation applications that demand miniaturization and integration. Here, we report ...

477. Luyu Li, Ruizhe Wu, Hancheng Ma, Bingbing Cheng, Shaoqing Rao, Sheng Lin, Chunbo Xu, Lei Li, Yao Ding, Liqiang Mai, "Toward the High-Performance Lithium Primary Batteries by Chemically Modified Fluorinate Carbon with d ...

To meet the miniaturization demands of next-generation electronics and electrical systems, energy storage capacitors with both high energy density and efficiency have become a research...

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