Dai yunfei energy storage

Single-phase ruthenium-based oxide with dual-atoms induced bifunctional catalytic centers enables highly efficient rechargeable Zn-air batteries,Qian Lu, Xiaohong Zou*, Yunfei Bu*, Ying Wang*, Zongping Shao*, Energy Storage Materials, 2024, 103341. (IF. 20.8)

DOI: 10.1016/j.apenergy.2022.119498 Corpus ID: 250103016; High-efficient built-in wave energy harvesting technology: From laboratory to open ocean test @article{Li2022HighefficientBW, title={High-efficient built-in wave energy harvesting technology: From laboratory to open ocean test}, author={Yunfei Li and Xin Ma and Tianyi Tang and Fu-Yuan Zha and Zhaohui Chen and ...

Energy Conversion & Management, 2015, 103:562-572. [10] Zhao P, Wang J, Dai Y. Capacity allocation of a hybrid energy storage system for power system peak shaving at high wind power penetration level[J]. Renewable Energy, 2015, 75(C):541-549.

stationary energy storage systems that have longer charge times and overall battery lives1-4. The lithium-sulfur (Li-S) battery is one of the most promising candidates because of its high energy ...

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DOI: 10.1109/TSTE.2020.3001015 Corpus ID: 226640583; Operational Planning of Centralized Charging Stations Utilizing Second-Life Battery Energy Storage Systems @article{Deng2021OperationalPO, title={Operational Planning of Centralized Charging Stations Utilizing Second-Life Battery Energy Storage Systems}, author={Youjun Deng and Yongxi ...

Jie Yu, Yawen Dai, Zhenbao Zhang, Tong Liu, Siyuan Zhao, Chun Cheng, Peng Tan, Zongping Shao, Meng Ni, Tailoring structural properties of carbon via implanting optimal co nanoparticles in n-rich carbon cages toward high-efficiency oxygen electrocatalysis for rechargeable zn-air batteries, 2022, Carbon Energy, doi: 10.1002/cey2.171. 56 ...

DOI: 10.1016/j.jallcom.2021.162934 Corpus ID: 244758361; Excellent energy storage properties in NaNbO3-based lead-free ceramics by modulating antiferrodistortive of P phase @article{Qiao2021ExcellentES, title={Excellent energy storage properties in NaNbO3-based lead-free

ceramics by modulating antiferrodistortive of P phase}, author={Zhe Qiao and Tianyu Li ...

The energy internet is a multi-energy sharing system with the coordinated and optimized operation of "source-network-load-storage". The energy router (ER) is the basic equipment in the future ...

This review article summarizes progress in high-performance supercapacitors based on carbon nanomaterials with an emphasis on the design and fabrication of electrode structures and ...

DOI: 10.1016/j.energy.2023.130139 Corpus ID: 266577772; Low carbon-oriented planning of shared energy storage station for multiple integrated energy systems considering energy-carbon flow and carbon emission reduction

Dielectric ceramics are highly desired for electronic systems owing to their fast discharge speed and excellent fatigue resistance. However, the low energy density resulting from the low breakdown electric field leads to inferior volumetric efficiency, which is the main challenge for practical applications of dielectric ceramics. Here, we propose a strategy to increase the ...

based on time-varying virtual energy storage Yunfei Mu1 Yaqing Zhang1,2 Hongjie Jia1,3 Xiaodan Yu1,3 Jiarui Zhang1 Xiaolong Jin1,3 Youjun Deng1 1Key Laboratory of Smart Grid of Ministry of ... of energy storage were introduced for the VES to better partic-ipate in the scheduling of the BEM. In terms of electric power for heating, two parameters ...

Energy Storage Materials 55, 166-192, 2023. 63: 2023: A smart lithiophilic polymer filler in gel polymer electrolyte enables stable and dendrite-free Li metal anode. ... X Meng, K Liao, J Dai, X Zou, S She, W Zhou, F Ye, Z Shao. ACS applied materials & interfaces 11 (22), 20091-20097, 2019. 50: 2019:

Lead free 0.5Na0.5Bi0.5TiO3-0.5SrTiO3 ceramics with Bi excess (NB0.5+xT-ST) were prepared by a conventional solid-state reaction method. The effects of bismuth excess on microstructure, dielectric properties and energy storage performances of NB0.5+xT-ST ceramics were investigated systematically. The results show that all ceramics exhibit a perovskite structure ...

A three-dimensional (3D) cellular MXene (Ti3C2Tx) film is fabricated through the filtration assembly of MXene microgels and a subsequent freeze-casting process. Fully exposed MXene nanosheets create a high-ion-accessible surface area, and the highly interconnected MXene networks facilitate ion transport, which enable the 3D cellular MXene film to acquire a ...

A perfect ant-nest structure in the Li S electrode is formed using this simple method; its - key characteristics include multi-interconnected channels for ultrafast Li-ion transport, numerous ...

My postdoctoral research at ORNL focuses on the synthesis and characterization of porous carbonfor energy storage. The main objective is to synthesis ... Zhenzhen Yang, Xian Suo, Hao Chen,, Ziqian Wang, Yunfei

Liu, Yinong Lyu, Ilja ... Hao Chen, Xian Suo, Jiyuan Liang, Wenshuai Zhu, Huaming Li, Sheng Dai, Nano Energy 2021, 79, 105464. 7 ...

Yunfei Mu, Wanqing Chen, Xiaodan Yu, Hongjie Jia, ... Xianjun Meng. Article 115700 View PDF. ... Anxin Luo, Yulong Zhang, Xiangtian Dai, Yifan Wang, ... Fei Wang. Article 115762 View PDF. Article preview. ... energy storage and energy efficient technologies enable carbon neutral energy transition? Ning Zhao, Fengqi You ...

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High-performance, thermally resilient polymer dielectrics are essential for film capacitors used in advanced electronic devices and renewable energy systems, particularly at elevated ...

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.

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Mobile energy storage spatially and temporally transports electric energy and has flexible dispatching, and it has the potential to improve the reliability of distribution networks. In this paper, we studied the reliability assessment of the distribution network with power exchange from mobile energy storage units, considering the coupling differences among ...

Optimal planning of energy storage system under the business model of cloud energy storage considering system inertia support and the electricity-heat coordination Xinyi Yang, Yaowang Li, Ziwen Liu, Shixu Zhang, ...

Hybrid shared energy storage based on electro-thermal coupling is an economical and effective way to solve the mismatch between the demand and supply of multiple multi-energy microgrids (MEMGs). However, its impact on the environment is often ignored. ... Yunfei Han: Supervision, Visualization, Investigation. Declaration of competing interest.

This review provides a comprehensive overview of the recent advancements in the application of COFs, COF-based composites, and their derivatives in rechargeable metal ...

DOI: 10.1016/J.NANOEN.2017.05.022 Corpus ID: 100528187; Electrocatalytic oxygen evolution reaction for energy conversion and storage: A comprehensive review @article{Tahir2017ElectrocatalyticOE, title={Electrocatalytic oxygen evolution reaction for energy conversion and storage: A comprehensive review}, author={Muhammad Tahir and Lun Pan ...

DOI: 10.1515/revic-2023-0039 Corpus ID: 269014410; Carbon materials derived by crystalline porous materials for capacitive energy storage @article{Wang2024CarbonMD, title={Carbon materials derived by crystalline porous materials for capacitive energy storage}, author={Hang Wang and Yiting Li and Longyu Wang and Jieting Jin}, journal={Reviews in ...

Energy Technology. 8 (8), 1900738. Amit Mishra, Arya Shafiefarhood, Jian Dou, Fanxing Li. "Rh promoted perovskites for exceptional "low temperature" methane conversion to syngas". 2020. Catalysis Today. 350, 149-155. Fang Hao, Yunfei Gao, Luke Neal, Ryan B Dudek, Wenyuan Li, Chingchang Chung, Bo Guan, Pingle Liu, Xingbo Liu, Fanxing Li ...

DOI: 10.1016/J.EGYPRO.2016.11.294 Corpus ID: 114155920; Frequency Control Strategy of Hybrid Energy Storage System for Microgrid Based on Frequency Hysteretic Loop @article{Yan2016FrequencyCS, title={Frequency Control Strategy of Hybrid Energy Storage System for Microgrid Based on Frequency Hysteretic Loop}, author={Qi Yan and Qu Bo and ...

In addition, the energy-dispensive X-ray spectroscopy (EDX) mapping of the SnS 2 @N-HPCNFs electrode indicated the uniform distribution of C, N, O, Sn, and S elements in the electrode, which illustrated that SnS 2 nanosheet was completely confined into the 1D carbon nanofibers (Figure S3, Supporting Information).The crystal structure of the SnS 2 @N ...