

This article starts with the energy storage mechanism of sodium ion batteries, analyzes the mechanism of the positive electrode, negative electrode, electrolyte, separator and other components of sodium ion batteries, summarizes the cutting-edge research and application progress, proposes methods to improve battery energy storage performance ...

MXenes derived from MAX phase precursors have attracted great interest in many fields, including electrochemical energy storage <sup>2,3</sup>, electromagnetic interference (EMI) shielding <sup>4</sup>, superconductors ...

SU Wei <sup>1</sup>, ZHONG Guobin <sup>2</sup>, SHEN Jiani <sup>3</sup>, WANG Chao <sup>2</sup>, XU Jinlong <sup>3</sup>, HE Yijun <sup>3</sup>, MA Zifeng <sup>3</sup> <sup>1</sup> Guangdong Diankeyuan Energy Technology Co. Ltd., Guangzhou 510080, Guangdong, China; ... The progress in fault diagnosis techniques for lithium-ion batteries[J]. Energy Storage Science and Technology, 2019, 8(2): 225-236.

Zifeng Ma School of Energy and Environmental Engineering, University of Science and Technology Beijing, ... Her work focuses specifically on the Phase Change Materials and Energy Storage Technology. Zhihan Yao. Zhihan Yao is a undergraduate student of University of Science and Technology of Beijing. Her major is energy and power engineering.

In article number 1702619, Yunhui Huang, Hanxi Yang, and co-workers summarize the recent advances and progresses on the synthesis, structure and intercalation electrochemistry of Prussian blue analogues (PBAs) for non-aqueous and aqueous sodium ion batteries. Additionally, the development of the PBAs for the insertion of other monovalent and ...

Sodium-ion batteries (SIBs) are considered to be a low-cost complement or competitor to Li-ion batteries for large-scale electric energy storage applications; however, their development has been less successful due to the lack of suitable host materials to enable reversible Na<sup>+</sup> insertion reactions. Prussian blue analogs (PBAs) appear to be attractive ...

Renewable energy chemical engineering and technology MA Zifeng <sup>1</sup> (), HE Yijun <sup>1</sup>, CHEN Jianfeng <sup>2</sup> <sup>1</sup>. ... we revealed the process engineering characteristics of electrochemical energy storage materials and devices according to the manufacturing process of multi-element transition metal oxide cathodes for lithium- and sodium-ion batteries ...

Aqueous Energy Storage 1. Introduction Electrochemical energy storage is becoming increasingly important nowadays due to the fast development of various flexible and wearable electronics.[1-4] It is one of the essential properties for a flexible energy storage device to maintain the electro-chemical performances under various mechanical strains,

Abstract: Lithium-ion batteries are energy-storage and conversion devices that play an important role in human society. From the chemical engineering perspective, lithium-ion battery could be considered as a special chemical reactor because it shares similar characteristics in ...

The development of efficient technologies for green and sustainable store energy is particularly critical to achieving the transformation from high reliance upon fossil fuels to the increased utilization of renewable energy. Electrochemical energy storage (EES) technology is becoming a key enabler behind renewable power. According to the principle of energy ...

The full ARSIBs exhibit an energy density of 50 W h kg<sup>-1</sup> (based on the total mass of active electrode materials) with good capacity retention of 90% after 100 cycles at 2 C and high rate ...

Energy Storage Science and Technology >> 2020, Vol. 9 >> Issue (2): 392-399. doi: ... LIAO Xiaozhen 1, LI Linsen 1, DENG Yonghong 3, MA Zifeng 1 () 1. Shanghai Electrochemical Energy Devices Research Center, Department of Chemical Engineering, Shanghai Jiao Tong University, Shanghai 200240, China 2. Zhejiang ...

Zifeng Ma's 21 research works with 540 citations and 1,186 reads, including: Achieving Ultra-Stable All-Solid-State Sodium Metal Batteries with Anion-Trapping 3D Fiber Network Enhanced ...

Energy Storage Science and Technology 2013, 2 (4): 331-341 ... Xing WANG, Dehou XU, Xuezhi ZHOU, Wei LIU, Xianzhang WU, Donglin WANG, Qinggang HE, Zifeng MA, Yaxiang LU, Xuesong ZHANG, Quan LI, Liumin SUO, Huan GUO, Zhenhua YU, Wenxin MEI, Peng QIN ...

Interface engineering in electrode materials is an attractive strategy for enhancing charge storage, enabling fast kinetics, and improving cycling stability for energy storage systems. Nevertheless, the performance improvement is usually ambiguously ascribed to ...

Energy Storage Science and Technology >> 2022, Vol. 11 >> Issue (6): 1874-1882. doi: ... LIU Haimei 1, MA Zifeng 2, 3 1. College of Environmental and Chemical Engineering, Shanghai University of Electric Power, Shanghai 200090, China 2. Zhejiang NaTRIUM Energy Co. Ltd., Shaoxing 312000, Zhejiang, China 3.

Z Ma, X Yuan, L Li, ZF Ma, DP Wilkinson, L Zhang, J Zhang. Energy & Environmental Science 8 (8), 2144-2198, 2015. 535: 2015: High temperature proton exchange membrane fuel cells: progress in advanced materials and key technologies. ... Energy Storage Materials 27, 140-149, 2020. 435: 2020:

Semantic Scholar extracted view of "MXenes as High-Rate Electrodes for Energy Storage" by Zifeng Lin et al. Skip to search form Skip to main content ... is a highly regarded technology for large-scale energy storage due to its outstanding features, such as scalability, efficiency ... Jun-Ming Cao Ming-Yang Ma +7 authors Xing-long Wu ...

In the future, Veken Technology will continue to promote its technological path, focusing on the research and development of high-energy density power batteries, long-cycle energy storage batteries, ultra-high safety special energy storage products, and ultra-high cost-effectiveness low-speed vehicle batteries to meet different market demands.

On March 1st, 2014, the 973 national project "High-capacity Energy Storage System And Its Application on the Basis of Supercapacitor" were grandly held in Sinopoly Battery Research ...

Interface engineering in electrode materials is an attractive strategy for enhancing charge storage, enabling fast kinetics, and improving cycling stability for energy storage systems. Nevertheless, the performance improvement is usually ambiguously ascribed to the "synergetic effect", the fundamental understanding toward the effect of the ...

CHE Haiying 1, 2, YU Yan 1, YANG Xinrong 1, 2, LIAO Xiaozhen 1, LI Linsen 1, DENG Yonghong 3, MA Zifeng 1 () 1. Shanghai Electrochemical Energy Devices Research Center, Department of Chemical Engineering, Shanghai Jiao Tong University, ... Energy Storage Science and Technology, 2020, 9(2): 392-399. ...

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The battery energy storage system (BESS) provides a new solution to reduce the wind power curtailments due to its relatively high energy density and flexible installed ...

Energy Storage Science and Technology >> 2020, Vol. 9 >> Issue (2): 448-478. doi: 10.19799/j.cnki.2095-4239.2020.0050. Previous Articles Next Articles Development of strategies for high-energy-density lithium batteries LI Wenjun 1, XU Hangyu 1, YANG Qi 1, 2, LI Jiuming 4, ZHANG Zhenyu 1, WANG Shengbin 1, PENG Jiayue 1, 2, ZHANG Bin 4, CHEN Xianglei 1, ...

Semantic Scholar profile for Zifeng Ma, with 104 highly influential citations and 387 scientific research papers. Semantic Scholar profile for Zifeng Ma, with 104 highly influential citations and 387 scientific research papers. ... which are attractive for electrochemical energy storage devices due to abundant ... Expand. 343. 3. Publisher ...

Energy storage is the key technology to support the development of new power system mainly based on renewable energy, energy revolution, construction of energy system and ensuring national energy supply security. ... Huang ZHOU, Yunlong ZHANG, Hangda CHEN, Zhan SHEN, Haimei LIU, Zifeng MA. 2022, 11 (9): 2980-2988. doi: 10.19799/j.cnki.2095-4239 ...

@article{Che2020BehaviorOS, title={Behavior of sodium-ion battery electrolytes based on the co-solvents of polyfluorinated ether and organic carbonates}, author={Haiying Che and Yan Yu and Xinrong Yang and Xiaozhen Liao and Linsen Li and Yonghong Deng and Zifeng Ma}, journal={Energy Storage Science and Technology}, year={2020}, volume={9 ...

Professor Ma Zifeng, School of chemistry and chemical engineering, Shanghai Jiaotong University ... Yu Zhenhua, executive vice chairman of Zhongguancun energy storage industry technology alliance Professor Yuan Zhongzhi Huizhou Yiwei lithium energy Co., Ltd Professor Zhang Qiang, Department of chemical engineering, Tsinghua University ...

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