

Yimin XUAN, Director | Cited by 18,442 | of Nanjing University of Science and Technology, Nanjing (NJUST) | Read 433 publications | Contact Yimin XUAN ... Latent heat thermal energy storage (LHTES ...

Nanjing University, College of Engineering and Applied Sciences, Xianlin Avenue, Qixia District, Nanjing, 21000 nanjing, CHINA. ... (LIBs) and supercapacitors in energy storage are summarized. The challenges and future research directions for porous Si are also discussed. This review aims to deepen the understanding of porous Si and promote the ...

International Journal of Energy Research. ... properties of myristyl alcohol/polyvinyl butyral/carbon nanotubes as composite phase change materials for thermal energy storage. Rongshuai Cong, Rongshuai Cong. School of Physics, Nanjing University, Nanjing, China ... Nanjing University, Nanjing, China. Correspondence. Guiyin Fang, School of ...

* Corresponding authors a School of Materials Science and Engineering, Nanjing University of Science & Technology, Nanjing 210094, China E-mail: jizhang@njust .cn b National Laboratory of Solid State Microstructures, Department of Materials Science and Engineering, College of Engineering and Applied Science & Jiangsu Key Laboratory of Artificial Functional ...

Nanjing University of ... a potential strategy to solve the energy shortage and achieve carbon neutrality in which the development of long-stable energy storage materials is the key to overcoming ...

Abstract: Building integrated energy system is an effective way to achieve low-carbon buildings. In order to further tap into its demand side adjustable potential and carbon reduction potential, and reasonably allocate the interests of various entities in the building integrated energy system, a two-layer optimization scheduling strategy for building integrated energy system considering ...

The design and predictive synthesis for novel energy storage materials via combined first-principles, experimental and data-driven approaches. Professional Services. Review editor for ...

Key Laboratory of Thermal Management and Energy Utilization of Aviation Vehicles, Ministry of Industry and Information Technology, Nanjing, Jiangsu, China. Correspondence. Yimin Xuan, College of Energy and Power Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing 210016, China. Email:

Energy storage material is a hot topic in material science and chemistry. During the past decade, nuclear magnetic resonance (NMR) has emerged as a powerful tool to aid understanding of the working and failing mechanisms of energy storage materials and devices. ... School of Chemistry and Chemical Engineering,

Nanjing University. 163 Xianlin ...

Great changes have occurred in the energy storage area in recent years as a result of rapid economic expansion. People have conducted substantial research on sustainable energy conversion and storage systems in order to mitigate the looming energy crisis. As a result, developing energy storage materials is critical.

Qibin ZHU | Cited by 250 | of Nanjing University of Aeronautics & Astronautics, Nanjing | Read 19 publications | Contact Qibin ZHU ... The calcium-based thermochemical energy storage is one of the ...

Nanjing University | NJU ... Due to the rapid development of energy storage systems from the goal of carbon neutrality, rechargeable aqueous Zn-MnO₂ batteries have attracted growing attention ...

ABO₃-type high-entropy relaxor ferroelectric ceramics have rarely been studied in energy storage capacitor owing to easy formation of impurity phase. In this work, single phase (Bi_{0.2}Na_{0.2}Ba_{0.2}Sr_{0.2}Ca_{0.2})TiO_{3-x}mol%PbO high-entropy ceramics are fabricated and investigated. The optimal composition of $x = 2.0$ shows a remarkable comprehensive energy ...

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My research focuses on developing new materials and architectures for electrochemical energy storage systems, including all-solid-state microbatteries, rechargeable metal ion batteries ...

Address: Room 910, Science Building, Gulou Campus, Nanjing University. E-mail: ygyao2018@nju.cn. ... Fundamental research on high performance thermal interface materials; flexible energy storage devices and integration. ...

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Enhanced comprehensive energy storage properties in Bi_{0.5}Na_{0.5}TiO₃-based relaxor ferroelectric ceramics under a moderate ... School of Materials Science and Engineering, Nanjing University of Science & Technology, Nanjing 210094, China. Search for other works by this author on: This Site. PubMed. Google Scholar. Ji Zhang. 0000-0001-5447 ...

Rising global temperatures and critical energy shortages have spurred researches into CO₂ fixation and conversion within the realm of energy storage such as Zn-CO₂ batteries.

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2014-2019 Ph.D., Nanjing University. 2010-2014 B.Eng., Nanjing University of Science and Technology. Professional Appointment. ... Energy storage materials and devices (Na ion battery, Zn battery), smart optical materials and devices (electrochromic smart windows & display)

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Capacitive energy storage performance of lead-free sodium niobate-based antiferroelectric ceramics Ye Lu1 ... Nanjing 210094, China 2School of Materials Science and Engineering, Nanjing University of Science & Technology, Nanjing 210094, China Received: 27 April 2023 Accepted: 9 July 2023 Published online: 24 July 2023 The Author(s), under

Eco-materials and Renewable Energy Research Center (ERERC), Jiangsu Key Laboratory for Nano Technology, National Laboratory of Solid State Microstructures and Department of Physics, Nanjing University, Nanjing, 210093 China. Search for ...

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