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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 ...

Due to humanity's huge scale of thermal energy consumption, any improvements in thermal energy management practices can significantly benefit the society. One key function in thermal energy management is thermal energy storage (TES). Following aspects of TES are presented in this review: (1) wide scope of thermal energy storage field is discussed.

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.

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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 ...

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 ...

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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

ABO 3-type high-entropy relaxor ferroelectric ceramics have rarely been studied in energy storage capacitor owing to easy formation of impurity phase this work, single phase (Bi 0.2 Na 0.2 Ba 0.2 Sr 0.2 Ca 0.2)TiO 3-xmol%PbO high-entropy ceramics are fabricated and investigated. The optimal composition of $x = 2.0$ shows a remarkable comprehensive energy ...

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