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4 ???· His primary research interests are in photovoltaic energy materials, including inorganic perovskite solar cells as well as organic-inorganic hybrid perovskite solar cell materials and devices. Chunyan Deng received his Ph.D. in Materials Science and Engineering from Huaqiao University in June 2024, where he conducted research under the guidance of Prof. Jihuai Wu.

Zhen Tong, Shouhang Li and Hua Bao, A comprehensive first-principles analysis of phonon thermal conductivity and electron-phonon coupling in different metals, ASME Technical presentation IMECE2019-12753, Proceedings of the 2019 ASME International Mechanical Engineering Congress and Exposition, November 11-14, 2019, Salt Lake City, USA.. ...

Renewable energy technologies have the potential to resolve global warming and energy shortage challenges. However, the majority of renewable energy sources such as solar, wind, etc. are strongly limited by their intermittent nature [1].Storage of solar energy in the form of thermal energy utilizing the latent heat of phase change materials (PCMs) can be a ...

The US National Aeronautics and Space Administration (NASA) has published aerial images of the Great Solar Wall, China's largest renewable energy project. The installation is expected to reach...

Energy is stored via the reverse endothermic reaction and released by the forward exothermic reaction. Chemical components investigated for TCES systems [3] include metal hydrides, carbonates, hydroxides, oxides, ammonia, and organic species. Most of the reversible chemical reactions investigated operate at a higher temperature range of 600-1200 ...

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Perovskite solar cells (PSCs) have emerged as one of the most promising candidates for photovoltaic applications. Low-cost, low-temperature solution processes including coating and printing techniques makes PSCs ...

The difficulties of large-scale power supply for the 5G base station are discussed and several solutions to solve the problem of power supply are analyzed in this paper. With the rapid development of Information and

Communication Technology (ICT), the fifth generation communication technology (5G) has become the focus of the field and it has been ...

Such a magnetically-accelerated movable charging strategy increases the latent heat solar-thermal energy harvesting rate by 107%, and also supports large-area charging and batch-to-batch solar-thermal storage. The movable charging system can be readily integrated with heat exchanging systems to serve as energy sources for water and space ...

An in-depth investigation of the BaO_2/BaO redox couple for reversible solar thermochemical energy storage has been performed. Beyond improving the cyclability and energy storage density of the material, an additional objective of this work is to better understand inconsistencies in the literature surrounding this chemistry. Sintering of BaO_2/BaO is a ...

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