



LIGHT ENERGY STORAGE AND HIGH TEMPERATURE THERMAL CONDUCTIVITY



PCMs represent a novel form of energy storage materials capable of utilizing latent heat in the phase change process for thermal energy storage and utilization [6], [7]. Solid-liquid ???



In past few years, PCM has garnered a substantial attention in heat energy storage (HES) applications due to their high-energy storage densities, operational simplicity, and ???



Being thermally conductive and compatible with organic PCMs, sp²-rich carbon-based nanomaterials are a class of filler material that can be added directly into PCMs to form ???



Self-luminous wood composites exhibit high latent heat of fusion (146.7 J g^{-1}), suitable phase change temperature at about 37°C ??, excellent thermal reliability and thermal ???



High temperature thermal energy storage is one promising option with low cost and high scalability, but it is hindered by the inherent complexity of simultaneously satisfying all of ???

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A high-thermal-conductivity (thermal conductivity $>2.9 \text{ W/m} \cdot \text{K}$) ER adhesive was applied to the CPCM to create a PCPCM, which can be used directly as a heat storage ???