

Is paraffin wax a good additive for thermal energy storage?

The strong interfacial bonding with paraffin wax results in a reduction of thermal resistance, making it a good and stable additive for thermal energy storage applications. In recent years, several nanomaterials have been explored for use in thermal energy storage owing to the requirement for higher thermal conductivity and stability.

Why do paraffin wax molecules have higher energy storage?

The paraffin wax molecules have more vibrational, translational, and rotational motion, resulting in higher energy storage. Enhanced molecular vibrations and lattice expansion at high temperatures allow for increased energy absorption.

Does dispersing MXene nanoparticles into paraffin wax increase TC and TS?

This study focused on the enhancement of TC, specific heat capacity (c_p), and thermal stability (TS) by dispersing MXene nanoparticles into paraffin wax at different concentrations, including 0.01 M, 0.03 M, and 0.05 M. We observed an increase in the TC of 16 % and enhanced c_p of 45 % with the 0.03 M concentration of MXene.

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