
This study investigates the specific heat capacity (Cp) of novel ternary nitrate salt mixtures composed of potassium nitrate (KNO3), lithium nitrate (LiNO3), and magnesium ...

Adding nanoparticles to potassium nitrate can increase its thermal energy storage capacity. Thus, these new KNO 3 -based nanomaterials can be successfully used as thermal energy storage ...

Concentrated solar power (CSP) systems require efficient thermal energy storage (TES) materials to address the intermittent nature of solar radiation. This study investigates ...

Sodium and potassium nitrate salts are stored in a molten state with the solar energy collected by the heliostats at the Gemasolar Thermosolar Plant. ...

Beyond fuel cells, potassium nitrate has potential applications in other forms of electrochemical energy storage, such as batteries. Rechargeable batteries are crucial for ...

In this paper, five phase change materials, potassium nitrate, sodium nitrate, and the composites of KNO 3 -NaNO 3 /graphite (3%, 6%, and 9%), have been studied by the ...

By combining classical molecular dynamics and differential scanning calorimetry experiments, we present a systematic study of all thermostatic, high temperature properties of ...

Operators can take advantage of a new ternary mixture of molten salts based on Calcium-Potassium-Sodium-Nitrate introduced by Yara. This low melting (131°C) ternary mixture of ...

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Sodium and potassium nitrate salts are stored in a molten state with the solar energy collected by the heliostats at the Gemasolar Thermosolar Plant. Ternary salts, with the addition of calcium ...

Sensible heat storage in molten nitrate salts is a key technology when it comes to thermal energy storage in combination with concentrating solar power (CSP) plants. Currently, ...

A survey of molten solar salts for use in energy storage shells is presented, to provide electric generation stations with power for eight hours. Tables are shown providing the characteristics ...

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