

Solar irradiance is a widely available source that can be converted to thermal energy by utilizing solar collectors. Among various types of solar collectors, evacuated tube ...

Effect of different heat pipe types/geometries (e.g., conventional, PHP, LHP, CTPTS, micro heat pipes..), Effects of different (new/alternative) working fluids in HPs, Effects of combined heat ...

Findings highlight Loop Heat Pipes integration as a transformative approach for minimizing heat losses and improving reliability, supporting global clean energy goals. By advancing solar ...

It has the advantages of a flexible layout, wide application, and insensitivity to climate change and the global market, which ensures national energy security. A heat pipe (HP) is a passive and ...

Article "Discharging process and performance of a portable cold thermal energy storage panel driven by embedded heat pipes" Detailed information of the J-GLOBAL is a service based on ...

Article "Three-dimensional simulation of high temperature latent heat thermal energy storage system assisted by finned heat pipes" Detailed information of the J-GLOBAL is a service based ...

These innovations are resulting in lower system costs, improved safety, and enhanced scalability, making liquid metal heat pipe storage increasingly attractive for a diverse array of applications, ...

As a key component of heat transfer, heat exchangers are essential for ensuring the efficiency and stability of energy storage systems [15], [16], [17]. In the field of phase ...

Secondary flows induced in helical-coiled pipes significantly enhance the thermal storage performance of latent heat thermal energy storage units. This paper presents a three ...

