
In the present study, an on-demand solar combined cooling, heating, and power (CCHP) system with parabolic trough collector (PTC) and solid-state thermal...

Notably, the system features dual-mode operation and integrates ultrasound technology for hydrogen production, enabling it to adapt to varying levels of energy production by seamlessly ...

As the world transitions to decarbonized energy systems, emerging long-duration energy storage technologies will be critical for supporting the widescale deployment of ...

In this direction, the present work suggests for the first time a new concept that combines the Carnot battery idea and trigeneration. Specifically, volatile electricity from the ...

The integration of thermal energy storage is crucial for the system"s adaptability, allowing it to store excess solar heat during peak production times and later use this stored ...

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It was found that nanofluids have low heat capacity, which may be one of the factors that increase the overall efficiency of trigeneration plants up to 43-60%. Magnesium ...

In the current study, a novel trigeneration system was presented to utilize the SPT for combined power generation, heating, and cooling. The trigeneration system consists a ...

The joint European project Thermal Energy Storage for On-demand Solar Trigeneration (TES4Trig) aims at unifying the above strategies into a single innovative CCHP system ...

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