

Sep 1, 2021 · It is important to study the dynamic characteristics of closed Brayton cycle using supercritical carbon dioxide (S-CO₂) for the research of the automatic control method of the ...

Nov 16, 2023 · The studied system consists of a closed Brayton cycle whose waste heat is used by an ORC, leading to improved energy efficiency. In addition, excess heat from the exhaust ...

The exploitation of solar irradiation is a critical weapon for facing the energy crisis and critical environmental problems. One of the most emerging solar technologies is the use of solar ...

1 day ago · The second question is: how can photo-thermal catalytic technology be integrated into system-level processes to achieve a closed carbon cycle, and what are its sustainability ...

Oct 21, 2021 · This work deals with the integration of the solar CaL storage system with an unconventional supercritical CO₂ (s-CO₂) Brayton cycle. We analyze different s-CO₂ ...

5 days ago · This study proposes and investigates a novel solar power tower-based tri-generation system producing electricity, hydrogen, and green ammonia through integrated ...

An integrated system based on liquid air energy storage, closed Brayton cycle and solar power: Energy, exergy and economic (3E) analysis. ... However, research on integrated closed ...

A solar-driven saline soil leaching system, featuring a closed-loop water cycle without requiring additional maintenance, was proposed for sustainable saline soil remediation for the first time.

Soil salinization severely degrades arable land and poses a significant threat to global food security. Different from the commonly adopted saline soil leaching method, this work proposes ...

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