

Abstract The internal flow field and loss distributions are quite complicated in the high-pressure compressor with shroud and backside cavity applied in the compressed air energy storage ...

Thermal energy storage (TES) is vital for achieving carbon neutrality in the energy sector. To achieve high storage efficiency, insulation with satisfactory performance is required. However, ...

The characteristics of different cold and heat storage materials are then discussed. The coupled application of distributed energy systems and cold and heat storage technologies is ...

System optimization methodology is an effective way to increase the efficiency of thermal system. However, at present, the multi processes of advanced compressed air energy storage (CAES) ...

Thermal-mechanical coefficient analysis of adiabatic compressor and expander in compressed air energy storage systems Compressed air energy storage (CAES) technology can play an ...

He has assembled the largest physical energy storage research and development team in China (more than 130 people) and presided over more than 30 projects of National 863 Program, ...

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