

capital cost. Hu and Yang then proposed the solar-aided coal-fired power generation concept using solar heating at a relatively low-temperature range (up to 350 °C) in a traditional ...

Downloadable (with restrictions)! The integration of solar energy into coal-fired power plants has been proven as a potential approach in the utilization of solar energy to reduce coal ...

The results show that when the heat output of the solar field changes from 0 kJ/h to 2.13 × 10⁸ kJ/h, the coal saving rate will increase to 6.4%, and the solar power generation ...

Semantic Scholar extracted view of "An efficient solar/lignite hybrid power generation system based on solar-driven waste heat recovery and energy cascade utilization in lignite pre-drying" ...

Rongrong Zhai's 13 research works with 361 citations and 2,595 reads, including: Thermal and economic performances comparison of different pulverized coal power systems augmented by ...

aided coal-fired power plants Yong Zhu, Rongrong Zhai, Miaomiao Zhao, ... and a 600MW solar aided coal-fired power plant is studied by these five methods comparatively. Therefore this ...

Fig. 1 shows a schematic of the STACP system, which contains the solar field and the coal-fired power plant. The solar field is composed of many heliostats, a solar tower, a ...

Xiaoqiang Zhai's 42 research works with 1,050 citations and 6,130 reads, including: Power consumption prediction of variable refrigerant flow system through data-physics hybrid ...

Semantic Scholar extracted view of "Exergy destruction analysis of solar tower aided coal-fired power generation system using exergy and advanced exergetic methods" by Yong Zhu et al. ...

In Gonghe Basin, plant species richness increased by 119.2% under PV panels (Li et al., 2016). However, fewer plant species and lower species diversity occurred under PV panels in a typical grassland area (Du and Sun, ...

This limitation of only solar-thermal plants leads to an innovative idea of combining solar energy with coal-based power plants. This study investigates the hybridization ...



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