

Saline Alkali Land - Solar Park is a ground-mounted solar project which is spread over an area of 400,000 square meters. The project generates 15,000MWh electricity and supplies enough ...

Saline-alkali land is an important component of terrestrial ecosystems and may serve as a carbon sink but its net contribution to the overall terrestrial carbon sink is unknown. ...

Soil salinization is a significant threat to soil health, especially to the agricultural ecosystem; it reduces vegetation biomass, destroys ecosystem diversity, and limits land use ...

We improved the design of an ion membrane electrolysis device to assess its use for electrolytic desalination and hydrogen production utilizing wastewater discharged from ...

More than 200 million hectares of land in East and Central Asia (approximately 22% of the world's total saline-alkali land area) are affected by salt build-up, and the ...

Enhancing global agricultural sustainability critically requires improving the physicochemical properties of saline-alkali soil. Biochar has gained increasing attention as a ...

In areas of desertification, saline-alkali land and coal-mining subsidence, models such as "renewable energy + ecological restoration and mining treatment" will be promoted. ...

Studying land use change and its associated climate effects is important to understand the role of human activities in the regulation of climate systems. By coupling ...

Studying the distribution and transport dynamics of cations in plants is crucial for understanding their response mechanisms to saline-alkali stress conditions. However, our ...

The western Songnen Plain is one of the three major areas of saline-alkali soil in the world; at present, the area of saline-alkali soil is more than 3 × 10⁶ hectares . Due to ...

Department of Energy and Power Engineering, Tsinghua University, Beijing 100084, China ... Therefore, there is still great potential in saline-alkali land amelioration and reclamation. For agricultural production, ...

Salt-alkali land refers to the soil with high levels of salt content or/and alkalinity, which interferes with normal growth of crops. More than 100 countries in the world embrace ...

Solar power generation in saline-alkali land

Saline-alkali stress results in significant plant damage and is a critical worry for 932 million hectares of land worldwide, with 100 million hectares in Asia (Wang et al, 2011; ...

Saline-alkali land is widely distributed on the earth, and the area of saline-alkali land in the world is about 1.0 × 10⁹ hm², accounting for about 25% of the earth's land area and 76% of the world's cultivated land area ...

Therefore, to cope with the challenge of food security posed by salinization and explore the optimal DI strategy for crops in saline-alkali land, the objectives of this study were ...

The improvement and development of saline-alkali land is of great significance for promoting food production and sustainable development. It is necessary to study the mechanism of ...

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