

Building photovoltaic power plants on grasslands requires high supports

However, unlike power plants that run on fossil fuels, solar farms produce zero emissions during power generation, making them a cleaner energy source. Solar farms capitalize on the sun's ability to create free, ...

As one of the most important renewable resources, solar energy possesses the qualities of clean environmental protection-friendly and inexhaustibility (Mekhilef et al., 2011; Hernandez et al., 2015). Currently, ...

For example, biological soil crusts take several years to recover from disturbance (Callison et al. 1985; Johansen and Clair 1986). Solar power plant construction can alter the soil conditions ...

The protected cropping industry requires research and innovation to contribute to sustainable food production (O'Sullivan et al., 2019), particularly to minimise energy use and operational costs ...

Each photovoltaic system was sampled two times during the monitoring period (first week of June 2021 and first week of October 2021). Each time, 30 soil samples were collected by digging up ...

Mean \pm st.err. of pH and soil organic matter (SOM) content in the two GMPV systems. a,b Different uppercase letters indicate a statistically significant difference ($p \leq 0.05$) ...

As the construction of photovoltaic power plants continues to expand, investors have placed great importance on the suitability assessment of site selection. In this study, we ...

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Results revealed that seminatural grasslands in the metropolitan area in Japan exhibit promising electricity generation potential, which may even surpass that of existing solar ...

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