Growing Artemisia sphaerocephala under photovoltaic panels

In arid sandy area, lower evaporation and greater soil moisture occur under PV panels, which provides more water for plant growth, thus promoting vegetation recovery and improving ...

In this study, Illumina high-throughput sequencing technology was used to investigate the effects of PV panel arrangement on grassland plant species diversity and soil microbial diversity.

For instance, habitats under photovoltaic panels have shown benefits for partial ecosystem functions, such as greater nutrient cycles and lower soil CO 2 effluxes [5]. Negative ...

The present study seeks to address this void, advancing the state of knowledge of how constructed PV arrays affect ground-level environments, and to what degree plant cover, having acceptable ...

In this study, we investigated the effects of PV panels on soil moisture and temperature via a whole-year field experiment at a PV power plant in a desert area in western China.

In summary, the installation of photovoltaic panels led to a notable elevation in the temperature underneath them. This temperature increase, in turn, enhanced the stability of the ...

The results indicated that the PV-Ag model performed most prominently in improving soil structure, increasing nutrient content, and enhancing microbial activity.

Specifically, we expected that soil microbial bio-mass and decomposition rates would be highest along the west panel edge, where soil moisture is greatest throughout the growing season, ...

In this study, solar panels were simulated by removing direct sunlight from Artemisia annua plants, and the concentration of the API, artemisinin, was determined and compared to control ...

To date, the most common plans for vegetation management under solar arrays are mechanical control (mowing), grazing sheep, and pollinator habitat, or a combination of these three.

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