Photovoltaic panels to grow fungus

In photovoltaic panels (PVs), biofilms are related to significant energy conversion losses. In this study, our aim was to characterize the communities of microorganisms and the genes involved ...

By investigating these hypotheses, this study aimed to contribute to the understanding of the ecological impacts of large-scale solar panel installation on plant and soil microbial communities ...

The analysis of microbial communities between and under various types of PV panels at Gonghe PV power station, Qinghai Province, has allowed researchers to examine the community ...

Understanding and evaluating the implications of photovoltaic solar panels (PVSPs) deployment on urban settings, as well as the pessimistic effects of densely populated ...

Scientists have discovered that microscopic organisms might hold the key to a new generation of renewable energy technology that can power devices while simultaneously fighting ...

In this study, a variety of qPCR-based methods have been developed to quantify the microbial load of fungi, bacteria and phototrophs on PV panels. These protocols were evaluated by ...

Solar panel surfaces can be colonized by microorganisms adapted to desiccation, temperature fluctuations and solar radiation. Although the taxonomic and functional composition of these ...

In this study, we first explored the effects of PV panels on soil properties. Then, using amplicon sequencing, we analyzed the impact of PV panels on soil microbial diversity and function, ...

We aimed to monitor the development of microbial biofilms on photovoltaic modules exposed to the tropical climate of Brazil, and the influence of these biofilms on the soiling and power ...

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