

Growing wood ear mushrooms under photovoltaic power station panels

Can solar panels help grow mushrooms?

By harnessing renewable energy, such as solar panels, to power various aspects of growing mushrooms, it is possible to significantly reduce the carbon emissions historically associated with conventional energy sources.

How much energy does the IoT-based mushroom cultivation system use?

Over four months, the IoT-based mushroom cultivation system consumed 30 kWh for overall system activities. This transition is noteworthy because it coincides with a substantial reduction in carbon emissions. In June, the system utilized 7.38 kWh of solar energy, which reduced carbon dioxide emissions by 6.27 kg.

What is the environmental control system for mushroom cultivation?

The environmental control system for mushroom cultivation integrates Internet of Things (IoT) technologies and solar renewable energy sources, offering significant economic potential.

Does IoT integration with solar energy use affect mushroom cultivation?

By analyzing variables such as growth rate, size, weight, and overall quality, this technique yields profound insights into the effect of IoT integration with solar renewable energy use on mushroom cultivation. In addition, a thorough market analysis is conducted to investigate the economic aspects of IoT-based cultivation techniques.

Can IoT-enabled system innovation improve mushroom production and quality?

The research contributions are to design and demonstrate the IoT-enabled system innovation with solar renewable energy, illustrating the effect of mushroom production and quality on the economic market analysis of mushroom cultivation in the direction of environmentally sustainable and green agricultural practices.

Which PV system has the highest mushroom productivity?

The highest mushroom productivity 1600 g was recorded with the cooling system in the PV area at 1.0 m height treatment. The reduction in solar radiation in the Mono PERC PV area was 31.9%-38.25% higher than that in the control area on clear days.

Wood-Ear mushrooms get their name, because they have an ear-like shape while they grow. They are also known as the Cloud Ear, Tree Ear, Black fungus, and Jelly Ear. Wood-Ear Mushrooms have a gelatine-like texture, a very mild taste ...

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