

Why grow *Ganoderma lucidum* under photovoltaic panels

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Why does *Ganoderma lucidum* grow so slow?

In recent years, continuous cultivation of *Ganoderma lucidum* in the same area has led to slow growth, smaller and more malformed fruiting bodies, and decreased yields, causing significant economic losses to *Ganoderma lucidum* growers [8]. Many growers opt to change *Ganoderma lucidum* cultivation sites every two years, which increases cultivation costs.

How does green light affect *Ganoderma lucidum*?

The green light might promote the degradation of the cultivation materials and absorption of nutrients by *Ganoderma lucidum* via increasing the activities of the extracellular enzymes, which might account for the best growth and weight of the fruiting bodies detected under G treatment.

What is the optimal light supply mode for *Ganoderma lucidum*?

The interval in intermittent light treatments was 30 min. The optimal light supply mode suitable for the growth of *Ganoderma lucidum* was explored by analyzing the characteristics, nutritional quality, and extracellular enzyme activity in mushrooms exposed to different light treatments.

Does continuous cultivation of *Ganoderma lucidum* deteriorate the surface soil?

This suggests that the self-repair capability of the surface soil deteriorates with continuous cultivation of *Ganoderma lucidum*. In continuous cultivation of *Ganoderma lucidum*, the trend of soil catalase (S-CAT) in the subsoil (15-30 cm) shows an increasing trend, while there is almost no change in the surface soil (0-15 cm).

Ganoderma lucidum is traditionally cultivated using several methods, including log cultivation, sawdust bag cultivation, and submerged fermentation. Each method has its own advantages and challenges, ...

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This review explores the intricate methodologies and challenges associated with cultivating *Ganoderma*. Successful cultivation hinges upon meticulous substrate selection, efficient ...

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This paper focuses on two key areas to provide the user with a precise and accurate system for controlling the drying process of *Ganoderma lucidum*. 1. The solar-electric hybrid dryer ...

To explore the impacts of continuous *Ganoderma lucidum* cultivation on soil physicochemical factors, soil enzyme activity, and the metabolome of *Ganoderma lucidum* fruiting ...

To study the effect and mechanism of the light quality acting on *Ganoderma lucidum*, and provide a theoretical basis for *G. lucidum* mycelium cultivation, we focused on growth and endogenous IAA ...

As the photovoltaic (PV) industry continues to evolve, advancements in *Ganoderma lucidum* grows under photovoltaic panels in Science Park have become critical to optimizing the utilization of ...

Placing abundant vegetation under panels leads to an increase in ground shade and humidity, which, in turn, leads to cooler photovoltaic cells and higher energy yields.

These yield increases are possible because of the microclimate created underneath the solar panels that conserves water and protects plants from excess sun, wind, hail and soil erosion.

Key factors for successful cultivation include oxygen content, calcium ion concentration, and environmental conditions. *Ganoderma* species are widely distributed in tropical and subtropical ...

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