The effect of interplanting Bletilla striata with photovoltaic panels

Do intercropping systems increase bacteria in Rhizoma bletillae?
Compared with rhizoma bletillae monoculture system,the intercropping systems significantly decreased Actinobacteria (P < 0.01) and Gemmatimonadetes (P < 0.05),while significantly increased Bacteroidetes(P < 0.05) (Fig. 3). An increasing trend of Chloroflexi was observed in the intercropping systems.

What is Bletilla striata used for?
Bletilla striata (Thunb. ex A. Murray) Rchb. f. (rhizoma bletillae) is a herbaceous perennial plant in the family Orchidaceae. As a traditional Chinese medicinal plant,its tuber is used against anti-inflammatory diseasessuch as hemostatic agents and tumors,among others (Hu et al. 2020).

How do solar panels affect plant and pollinator communities?
They linked these effects on plant and pollinator communities to alterations of microclimatic conditionsunder PV panels such as changes in soil temperature,solar radiation,or soil moisture--which can be directly related to nectar production by plants.

Does intercropping affect soil microbial community structure in bamboo-Rhizoma bletillae?
The effect of intercropping on the soil microbial community structure was mainly due to the changes in soil moisture and NO 3- -N. Our finding suggests that improvement of soil water and nitrogen regime can be effective measures for sustainable management of the bamboo-rhizoma bletillae intercropping system.

Does PV shading affect horticulture crop cultivation?
This mini review has reported experimental studies about the effect of PV shading on horticulture crop cultivation and a correlation between the growth parameters and the characteristics of PV installation, in terms of degree of roof coverage has been found.

Does moso bamboo-Rhizoma bletillae interact with soil bacteria?
The bamboo-medicine intercropping system is conducive to improving the utilization of bamboo forest land and space resources. However,the response mechanism of soil bacteria to changes in soil properties under the moso bamboo-rhizoma bletillae system is still unclear.

Drought stress reduces photosynthesis by reducing the unit leaf area and photosynthetic rate, which is mainly due to stomatal closure or metabolic disorders. Higher WUE is associated with stomatal conductance ...

Bletilla striata is a terrestrial orchid with high ornamental and medicinal values that is widely interplanted in bamboo forests. However, little is known about the effects of bamboo forest type and density on the growth of B. ...

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There are insufficient studies on its clinical properties, and its efficacy and safety cannot be established from a scientific point of view, so it is hoped that this review will provide reference ...

Background Bletilla striata (Thunb.) Reichb.f. (B. striata) is a traditional Chinese medicinal herb. B. striata polysaccharides (BSP), stilbenes and 2-isobutyl malic acid glucosoxy ...

The crude polysaccharide of Bletilla striata in this study was extracted by water extraction and alcohol precipitation and further purified by gel column to yield the purified ...

Bletilla striata (Thunb.) Reichb. f. (Orchidaceae) is a herbaceous perennial plant (Chinese Academy of Sciences "Chinese Flora" Editorial Board 1999).The dried tuber of B. ...

Purpose: The purpose of this study is to evaluate the skin wrinkle improvement effect of a mixture of Bletilla striata Reichenbach fil., Ampelopsis japonica, Angelica dahurica, ...

As shown in Fig. 2, SCs are defined as a component that directly converts photon energy into direct current (DC) through the principle of PV effect.Photons with energy exceeding the band ...

Bletilla striata: a review of seedling propagation and cultivation ... pharmacological effects, B. striata can significantly reduce tumors and oxidative damage, as well as promote antimi ...

The results showed that after 4 years of interplanting Polygonatum cyrtonema and Bletilla striata, the species of herbaceous plants under Cunninghamia lanceolata forest increased significantly ...

The Bletilla striata Polysaccharide (BSP), a natural polysaccharide derived from the east Asian terrestrial orchid Bletilla striata, is an anti-inflammatory, antiviral, and ...

Bletilla striata (Thunb.) Reichb.f. is a perennial herb of the genus Bletilla in the Orchidaceae family. The therapeutic part of B. striata is its dry tubers, which have astringent properties and ...

Bletilla striata is a well-known traditional Chinese herb with anti-inflammatory properties that is widely used in the treatment of lung conditions such as silicosis, tuberculosis, ...

system · Moso bamboo · Bletilla striata · Bacterial community · Potential function Introduction According to FAO (2010), bamboo is widely dis-tributed in subtropical and tropical countries. ...

Bletilla striata polysaccharide (BSP) extracted from B. striata tuber, which is a traditional Chinese medicine, is used for preparing a fiber with mechanical properties through ...

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