

Does PV panel construction affect plant species diversity indices?

In general, PV panel construction did not affect plant species diversity indices, with the exception that plant species richness ($\ln RR = -0.555, [-0.720, -0.390], p < 0.001$) was significantly reduced in woodland ecosystems.

What are the ecological characteristics of *Coptis chinensis*?

4.2. Ecological characteristics of *Coptis* herbs The suitable distribution areas for *C. chinensis* have a typical temperate humid monsoon climate providing cold, humid and concealed climate conditions required for the growth of *C. chinensis*.

Can photovoltaic panels increase plant biomass & vegetation cover in grassland ecosystems?

Furthermore, plant aboveground biomass and vegetation cover were also enhanced by SPP construction in grassland ecosystems. In farmland ecosystems, photovoltaic panel installation increased plant aboveground biomass, soil available phosphorus and soil pH, while reducing CO₂ flux, plant species richness and vegetation cover in woodlands.

How are *Coptis* herb distributions predicted based on environmental factors?

Potential *Coptis* herb distributions were predicted based on environmental factors. *Coptis* distributions were compared under present and future climate conditions. Annual precipitation range and isothermality dominantly affected distribution. Alkaloid content may affect *Coptis* species susceptibility and distribution.

Does *L. chinensis* grow in a photovoltaic system?

The roots of *L. chinensis* in the photovoltaic systems had a significantly thinner RC and greater RV than the control. In addition, *L. chinensis* in the photovoltaic systems developed significantly larger SP and XV. However, *L. chinensis* in the control had significantly greater LT and UE.

Can *Coptis* be grown artificially?

However, suitable climatic conditions have also been predicted in Guangdong and Taiwan for *C. chinensis* and *C. deltoidea* and in these regions, artificial cultivation of *Coptis* could be considered. 4.2. Ecological characteristics of *Coptis* herbs

Based on optimized maximum entropy models, this study aimed to predict and analyze the distribution patterns of potentially suitable regions for *C. chinensis* under multiple climate scenarios (SSP1-2.6, SSP2 ...

Background: The main planting modes currently used for the production of *Coptis chinensis* Franch are under the shade of a manmade scaffold or a natural understory. In this study, we ...

Coptis chinensis Franch. (Huanglian) is a perennial medicinal herb in the family Ranunculaceae that is widely cultivated in southwest China. The plant has high economic value due to its ...

Our findings have demonstrated that during leaf expansion, the RO of *C. chinensis* had lower carbohydrate and P losses under 200 mmol m⁻² s⁻¹ compared to plants under 50 mmol m⁻² s⁻¹. After rapid leaf expansion, ...

In farmland ecosystems, photovoltaic panel installation increased plant aboveground biomass, soil available phosphorus and soil pH, while reducing CO₂ flux, plant species richness and vegetation cover in ...

Huang Lian, also known as *Coptis Chinensis* Rhizoma, is a traditional Chinese herb with a rich history of medicinal use. This remarkable herb has gained attention for its diverse health benefits, ranging from promoting ...

Coptis chinensis Franch. (Ranales: Ranunculaceae) is a perennial species with high medicinal value. Predicting the potentially geographical distribution patterns of *C. chinensis* against the ...

As a traditional Chinese medicinal plant, *Coptis chinensis* Franch contains more than 30 ... niger Tiegh, *Xanthomonas oryzae* pv. *oryzicola* ... *chinensis* aqueous extract (14) and under ...

Coptis chinensis, also known as Chinese goldthread, coptidis, and yellowroot, is a low-growing, creeping, perennial plant that is endemic to the cooler regions of Asia, most ...

In this study, we first predict the distribution size variations of the three plant species, under present and future conditions. Secondly, we carried out field sampling of these ...

Background The main planting modes currently used for the production of *Coptis chinensis* Franch are under the shade of a manmade scaffold or a natural understory. In this study, we analysed changes in the growth, development, ...

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Coptis (Ranunculaceae) contains 15 species and is one of the pharmaceutically most important plant genera in eastern Asia. Understanding of the evolution of morphological characters and ...

Given that plant carbon content is about 50% of plant weight (Ma et al., 2018), carbon sequestration capacity in a solar power plant increases in the surface soil under and in ...

root rot of *Coptis* plants occurs, the leaves of infected plants show wilt, necrotic lesions, drying, and death. e

?brous roots and rhizomes exhibit brown discoloration and progressive necrosis ...

effect of a *Coptis chinensis* extract product against the soft rot- causing bacterium, an in vitro study was set up. Bacterial isolate were obtained from rotting calla lily tubers and maintained in ...

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