The seedlings of Castanopsis chinensis under the photovoltaic panels

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How does light affect Castanopsis hystrix seedlings?
Full light exposure and intense shading significantly affected the growth and development of Castanopsis hystrix seedling roots,inhibiting the seedlings' ability to utilize soil nutrients and water,which,in turn,limited the accumulation and growth of organic matter in the whole plant.

Does shade affect growth in Castanopsis hystrix seedlings?
Compared to full sunlight,treating Castanopsis hystrix seedlings with a 60% shade rate stimulated growthin both the ground diameter and seedling height. Conversely,growth in ground diameter was inhibited under treatments with 40% and 80% shade. This corroborates the results of Qian Huang [].

Why is seedling regeneration important for Castanopsis hystrix?
However,excessive logging and the introduction of exotic tree species have substantially reduced the area of natural forest patches of Castanopsis hystrix,and seedling regeneration is essential for the long-term continuation of Castanopsis hystrix populations.

Where does Castanopsis kawakamii grow?
Individual seedling of Castanopsis kawakamii. Castanopsiskawakamii tree species occurs in a comparatively narrow region of subtropical forests in China and Vietnam. The Castanopsis kawakamii Nature Reserve is located in the southeast of China,where encompasses 700 ha of natural community dominated by the C. kawakamii tree species.

Effects of Shading on Leaf Chlorophyll Content and Chlorophyll Fluorescence Properties of Castanopsis hystrix Seedlings It was observed that the leaves of Castanopsis hystrix seedlings ...

To explore the effects of light intensity on the seedling emergence and early growth of Castanopsis hystrix, shading experiments were conducted ...

Castanopsis hystrix is a major community-building species in the top communities of southern subtropical China, with a high natural regeneration capacity. However, excessive logging ...

The morphological traits and eco-physiological characteristics of germination and storage of Castanopsis

chinensis seeds were investigated by widely used methods. The results show that: 1) the seeds can ...

In conclusion, 60% shade treatment can effectively improve the growth and photosynthetic characteristics of Castanopsis hystrix seedlings and ...

Seed mass and emergence time may influence fitness of plants. The experiments were conducted to investigate the effects of seed mass and emergence time on the performance of ...

Light is a major environmental factor limiting the growth and survival of plants. The heterogeneity of the light environment after gap formation in forest influences the leaf chlorophyll ...

Castanopsis sclerophylla is one of the first growing species in secondary succession after destruction of subtropical evergreen broad-leaved forests. The objective is to study the effects of low light level on ...

Article Response of Photosynthesis and Chlorophyll Fluorescence Parameters of Castanopsis kawakamii Seedlings to Forest Gaps

Individual seedling of Castanopsis kawakamii. Castanopsiskawakamii tree species occurs in a comparatively narrow region of subtropical forests in China and Vietnam. The Castanopsis ...

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