It is suitable to plant Isatis indigotica under photovoltaic panels

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Does water affect the yield and quality of Isatis indigotica?
Scholars have studied the effect of water on the yield and quality of Isatis indigotica from the aspects of water-saving irrigation systems 9 and water stress 10. However,no research is currently availableon the influence of water and nitrogen fertilizer on photosynthesis,yield,and quality.

Does water and nitrogen coupling affect photosynthetic characteristics of Isatis indigotica?
Rational irrigation and nitrogen application are key factors for successful crop management. The objective of this study was to determine the effect of water and nitrogen coupling on the photosynthetic characteristics, yield, and quality of Isatis indigotica produced in northwestern China.

What is Isatis indigotica Fort?
Isatis indigotica Fort. (Chinese woad) is a species with an ancient and well-documented history as an indigo dye and medicinal plant. It is often confused with Isatis tinctoria L. (European woad),a medicinal plant in Europe. Here,the differences between I. indigotica and I. tinctoria are systematically described.

Why does Isatis indigotica have a higher yield than w2n2?
The yield increase in the current experiment was probably related to reasonable water stress and reasonable nitrogen application; the W2N2 treatment had the highest yield and water use efficiency. However, excessive water and nitrogen reduced the yield and water use efficiency of Isatis indigotica.

Objective The present study, with an exploration of the effects of light intensity on growth of Isatis indigotica, and chemical composition, antioxidant activity of isatidis folium, aims to provide ...

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Introduction Isatis indigotica Fort. is a biennial herbaceous plant be-longing to the Cruciferae (Brassicaceae) family and has a long history as one of the most prevalent Chinese ...

The photosynthetic capacity of tetraploid Isatis indigotica was better than that of diploid, but in weak light condition, the diploid Isatis indigotica was better-adapted than tetraploid Isatis ...

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Tomato,lettuce,pepper,cucumbers and strawberriesare the most studied crops under PV panels (Fig. 5). The recent literatures for applications of selective shading systems on the ...

A field experiment was conducted to evaluate the effect of regulated deficit irrigation on the photosynthetic characteristics, yield, and ...

In order to gain insight into such response, we studied the effect of elevated [CO2] on Isatis indigotica Fort, one of the most popular Chinese herb plants. The changes in leaf ...

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