Planting sweet potatoes under photovoltaic panels

Planting sweet potatoes under the SCAPV improved the utilization rate of phosphorus and potassium fertilizers, effectively controlled the aboveground parts" growth, and increased protein ...

This paper aims to investigate the effects of SCAPV on the reduction of water evapo-ration and evapotranspiration (ET); and the impacts of SCAPV on soil nutrients, sweet potato quality, and yield. ...

In order to investigate the effects of establishment of photovoltaic (PV) panels on field illumination conditions and sweet potato growth in an agro-photovoltaic integrating system, we used wooden ...

This study investigated yield performance and shade avoidance responses of three major Asian staple crops, rice, soybean, and sweet potato in agrivoltaic systems.

The impact of agrivoltaics on potato farming New research from Italy has shown that agrivoltaic systems can reduce potato yield by up to 15% compared to full-light cropping.

Omer et al. (2024a) planted sweet potatoes under a novel agricultural photovoltaic system called Spectrum Splitting and Concentrated APV (SCAPV), which utilizes curved glass covered with ...

However, the effects of SCAPV and EAPV on sweet potato quality and yield have not been studied. Therefore, this study aims to investigate the impact of SCAPV and EAPV on evapotranspiration (ET) ...

We conducted three treatments: SCAPV, EAPV, and open-air (CK). We planted 32 m2 of sweet potatoes and placed a weather station in each treatment.

Semi-transparent PV (STPV) module technology has emerged as a potential solution to mitigate the negative effects of dense shade in cropping systems while maintaining a high module ...

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