

In this study, the main objective is to understand the growth and development characteristics of sweet potato, which is an important upland crop, while it was planted under photovoltaic (PV) panels and con...

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 ...

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

Therefore, this study aims to investigate the impact of SCAPV and EAPV on evapotranspiration (ET) and sweet potato quality and yield. We conducted three treatments: SCAPV, ...

Recently, sweet potato is used in photovoltaic agriculture, and planted under photovoltaic panels [18]. However, sweet potato is a photophile crop and may be subjected to insufficient solar ...

In a two-year study near Lake Constance in southwest Germany, the researchers found that potatoes thrived when agrivoltaics were incorporated into the land use plan. The yields under the ...

Soluble sugar content increased under EAPV. Anthocyanin content under SCAPV improved. Therefore, SCAPV and EAPV positively affect dry matter accumulation and enhance the sweet potato's growth. ...

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 ...

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

The SCAPV and EAPV treatments improved the dry matter rate of sweet potatoes, which is beneficial to the accumulation of dry matter in sweet potatoes. The protein, starch, and reduced ...



Sweet potatoes under photovoltaic panels

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