

Growing strawberries under photovoltaic panels

Are strawberry plants able to grow in a solar greenhouse?

Forty-six pots of strawberry plants with good growth were selected and divided into three rows on the solar greenhouse shelves. Among them, strawberry plants No. 1 to No. 26 were used as samples to compare the effects of shaded and unshaded light.

Do OPV modules and solar heating affect Strawberry growth and quality?

A solar greenhouse with opaque photovoltaic (OPV) modules and a solar combined air source heat pump system was built for strawberry production. The aim of this study was to assess the impact of differences in both temperature and light factors caused by OPV modules and solar heating on strawberry growth and quality in a constructed greenhouse.

Does shade affect the growth of strawberry plants in a solar greenhouse?

Because of the influence of clouds, the light intensity curve fluctuated. To verify the effect of shade on the growth of strawberry plants in a solar greenhouse, the solar radiation, PAR and chlorophyll content of the strawberry plants were measured during the daytime. Twenty-six strawberry plants were evenly placed in the solar greenhouse.

Can solar energy improve the quality of Strawberry?

Quality of strawberry was improved by solar energy adjusting temperature and light. Strawberry grew better when the PV modules occupied 25.9% roof of greenhouse. The suitable light range for strawberry under the shade of PV module was obtained. Solar combined air source heat pump provides suitable heating for strawberry. Abstract

How do OPV modules help strawberry plants grow better?

OPV modules can effectively shield excess light and reduce the indoor temperature, providing strawberry plants a better growth environment in terms of light and temperature.

How to grow a strawberry plant in a greenhouse?

Therefore, it is necessary to provide appropriate light for strawberry growth. Greenhouse shading is an effective way to achieve an environment suitable for strawberry growth and improve the productivity of strawberry plants and the quality of strawberry fruit in hot and sunny areas.

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