

Growing Chinese herbs under photovoltaic solar panels

Are solar panels good for agrivoltaic crops?

Raspberries grown under solar panels in the Netherlands. Image courtesy of GroenLeven. Many agrivoltaic trials have reported promising results. For example, a project in southern France found that grapes grown under solar panels needed less irrigation and were of higher quality.

Does agrivoltaic system work in China?

Due to lack of empirical modeling, the overall compatibility and profitability of the Agrivoltaic system across China were unknown.

What plants grow under photovoltaic panels?

Kavga A, Trypanagnostopoulos G, Zervoudakis G, Tripanagnostopoulos Y (2018) Growth and physiological characteristics of lettuce (*Lactuca sativa* L.) and rocket (*Eruca sativa* Mill.) plants cultivated under photovoltaic panels.

Can we grow crops under solar panels instead of trees?

Traditionally, agricultural and agroforestry systems used multilayered plantings by, for example, cultivating shade-tolerant crops such as coffee under bananas. Now, with growing demand for clean energy but a paucity of empty land, researchers are exploring how to grow crops under raised solar panels (photovoltaics) instead of trees.

Can agrivoltaic projects be implemented in Southeast Asia?

Southeast Asia presents a rich tapestry of opportunities for implementing agrivoltaic projects as well as some challenges. The installed solar capacity in Southeast Asia has already been growing consistently. For instance, in 2023, the solar market in Southeast Asia expanded by 17% compared to 2022, with 3 GW of new installations.

Why is photovoltaic agriculture growing in China?

In recent years, photovoltaic agriculture has a rapid development in China due to powerful support policies, flourishing controlled environmental agriculture, policy-oriented rural electrification and promising electric machinery for greenhouse.



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