The role of intercropping under photovoltaic panels

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Agrivoltaics defines land used simultaneously for agriculture and solar photovoltaic power generation, thus allowing landowners to cultivate crops and produce clean energy simultaneously.

Agrivoltaics--blending solar energy with farming--offers a potential dual-use land strategy, but is dependent upon site-specific environmental and economic considerations.

This special issue features a comprehensive review of the role of plant-microbe interactions in nutrient availability and plant stress responses, with a focus on enhancing plant ...

These yield increases are possible because of the microclimate created underneath the solar panels that conserves water and protects plants from excess sun, wind, hail and soil erosion. ...

Agrivoltaics, the simultaneous use of land for both agriculture and photovoltaic (PV) energy production, has gained significant attention as a sustainable land-use strategy. This review ...

Therefore, maintaining crop yield under shading beneath photovoltaic panels is important. Numerous studies have examined the effects of AVSs on yields, predominantly focusing on ...

The integration of the photovoltaic (PV) energy in the greenhouse farm has raised concerns on the agricultural sustainability of this specific agrosystem in terms of crop planning and...

With the continuous advancement of solar energy production, mathematical models for predicting the effects of planting agricultural crops under PV panels that are solely used for solar power generation ...

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