

Which crops are suitable for agrivoltaics?

Basil and spinach are particularly appropriate crops as they are frequently farmed in protected agricultural systems (e.g., greenhouses) where implementation of agrivoltaics can be facilitated readily using existing infrastructure.

Can tinted semi-transparent solar panels transform the concept of agrivoltaics?

Agrivoltaics describes concurrent agricultural production of crops and photovoltaic generation of electricity on the same cropland. By using tinted semi-transparent solar panels, this study introduces a novel element to transform the concept of agrivoltaics from just solar-sharing to selective utilization of different light wavelengths.

What are photovoltaic panels made of?

The photovoltaic technology used is thin-film amorphous silicon with a transparent zinc oxide back conductive layer and clear front glass coated with Fluorine Tin Oxide. The PV panels are a glass laminate with the PV layers sandwiched between.

Can semi-transparent organic photovoltaics be used as greenhouse shade?

Waller, R., Kacira, M., Magadley, E., Teitel, M. & Yehia, I. Semi-transparent organic photovoltaics applied as greenhouse shade for spring and summer tomato production in arid climate. *Agronomy* 11 (6), 1152 (2021).
Franklin, K. A. Shade avoidance. *New Phytol.* 179 (4), 930-944 (2008).

Should agrivoltaics be a viable alternative to classical agriculture?

Even with a loss in the yield of marketable biomass for both basil (15%) and spinach (26%), projection of our experimental data has shown that agrivoltaics could give a substantial overall financial gain calculated to be +2.5% for basil and +35% for spinach compared with classical agriculture.

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