The yield of rapeseed planted under photovoltaic panels

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.

In this min review, the results of recent research that investigated the shading effect of static or mobile PV modules mounted greenhouses or ground (open field system) on crops production in...

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 ...

The rapeseed plant"s strategy of transforming its seed pods into solar panels is a masterclass in optimizing energy use for reproduction. However, this vital engine is vulnerable, and its decline ...

In this study, we comprehensively analyzed the main photosynthetic organs of four high-yielding rapeseed varieties at the seedling, bud, flowering, and podding stages.

Our main findings are that (1) the reduction in solar radiation is the main changed factor underneath the APV canopy where a reduction of more than 40% the solar radiation due to the ...

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 ...

This study examines the radiation and shade distribution over the crop surface among three densities of photovoltaic (PV) panels {Partial density (PD), Half density (HD) and Full density ...

In this context, we introduce an innovative approach for the effective simulation of the shading effects of various APV designs. We performed an extensive sensitivity analysis of the ...

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