Planting lettuce under photovoltaic panels

A recent study shows that lettuce can be grown in greenhouses that filter out wavelengths of light used to generate solar power, demonstrating the feasibility of using see-through ...

Scientists have grown organic romaine lettuce under 13 different types of PV modules, in an unusual hot Canadian summer.

Lettuce growth was inhibited, resulting in lower dry weight and relative growth rate (RGR) with longer leaves, under the fluctuating light by roof-mounted PV modules compared to normal green-house ...

Varieties such as lettuce, spinach, kale, and arugula are particularly well-suited for growing under solar panels. Herbs: basil, cilantro, mint, and parsley prefer less intense sunlight and ...

The results suggest that in regions with high radiation levels and temperatures, it is possible to use the same space on rooftops to produce photovoltaic energy and cultivate plant species that demand little ...

"Some varieties of lettuce produce greater yields in shade than under full sunlight; other varieties produce essentially the same yield under an open sky and under PV panels."

By growing these crops--including flowers--under solar panels, farmers and landowners can optimize land use, support biodiversity, and generate renewable energy simultaneously.

Research at the Universities of Maryland, Georgia and Kansas has shown that passive shading can improve marketability and quality of tomatoes, peppers and lettuce, respectively.

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Web: https://rrrprojects.co.za