

# Can *Polygonatum sibiricum* be planted under photovoltaic panels

What is *Polygonatum sibiricum*?

(Xu et al.,2016). *Polygonatum sibiricum* Delar. ex Redoute. is the dry rhizome of Asparagaceae,which has a sweet fragrance and taste and is widely distributed across China (Yelithao et al.,2016).

Can Broccoli grow under photovoltaic panels?

Researchers in South Korea have been growing broccoli underneath photovoltaic panels. The panels are positioned 2-3 metres off the ground and sit at an angle of 30 degrees,providing shade and offering crops protection from the weather.

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.

What are polysaccharides in *Polygonatum sibiricum*?

Polysaccharide is one of the main active components of *Polygonatum sibiricum*. For this study,*P. sibiricum* polysaccharides (PSP) were obtained through purification using DEAE-Cellulose52 and Sephacryl G-150 column chromatography. The obtained samples were named PSP1,PSP2 and PSP3.

Could agrivoltaic farming be a solution?

Agrivoltaic farming could be a solution to not just one but both of these problems. It uses the shaded space underneath solar panels to grow crops. This increases land-use efficiency,as it lets solar farms and agriculture share ground,rather than making them compete against one another.

Can agrivoltaic systems be combined with solar PV?

Associating food crops and solar PV on the same land area which is referred as agrivoltaic systems (also denoted as Agrophotovoltaics, APV) (Dinesh and Pearce 2016; Santra et al. 2017) is among the most developing techniques in agriculture that attract significant researches attention in the past ten years (Fig. 1 a).

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Web: <https://publishers-right.eu/contact-us/>

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346

