

# Is it okay to plant *Polygonatum sibiricum* under photovoltaic panels

Can *Polygonatum sibiricum* be used in soil remediation?

In conclusion, the safe utilization of *Polygonatum sibiricum* can be guaranteed when the soil Cd concentration is under 1 mg/kg, and it has high application potential in soil remediation areas with lower Cd contamination. Data availability

Can *Polygonatum sibiricum* be transplanted?

Two-year-old seedlings of *Polygonatum sibiricum* were harvested from a traditional Chinese medicine cultivation base in Neijiang City, Sichuan Province. Transplanting is usually carried out after the end of the reverse seedling stage.

Which part of *Polygonatum sibiricum* is more active?

The results show that the activity of antioxidant enzymes (SOD and CAT) in the aboveground part was always higher than that in the underground part. The underground part of *Polygonatum sibiricum* mobilizes nonenzymatic systems to facilitate the synthesis of polysaccharides (PCP1, PCP2) with antioxidant properties to cope with Cd stress.

What is rhizome of *Polygonatum sibiricum*?

Applied Biological Chemistry 66, Article number: 35 (2023) Cite this article Rhizome of *Polygonatum sibiricum* is both a renowned traditional Chinese remedy and a commonly consumed delicacy. Due to the escalating demand and excessive overexploitation, there has been a growing interest in the artificial cultivation of this plant in recent years.

Does *Polygonatum sibiricum* have a high SOD activity?

The aboveground SOD activity of *Polygonatum sibiricum* was similar to that of most plants, but the SOD activity of the underground parts was lower than that of the control group under a higher Cd level (e0, e2, and e4 treatment).

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).

This study was designed to (1) determine the physiological stress responses and interactions between enzymatic and nonenzymatic antioxidant systems of *Polygonatum* ...

*Polygonatum sibiricum* is a PERENNIAL growing to 1 m (3ft 3in). See above for USDA hardiness. It is hardy to UK zone 3. It is in flower from May to June, and the seeds ripen from August to ...

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The rhizome of *Polygonatum sibiricum*, known as huang-jing ( in Chinese) in traditional Chinese medicine, is consumed to treat various diseases. During surveys in ...

Through the use of in vitro antioxidant activity studies including DPPH free radical scavenging, ABTS scavenging, superoxide anion radical scavenging, and hydroxyl radical ...

*Polygonatum sibiricum* is a traditional Chinese medicine with homology of medicine and food. Exploring different methods for extracting polysaccharides from ...

Results The highest photosynthetic capacity and polysaccharide content of *P. sibiricum* was recorded under moderate drought stress. The growth and development of *P. sibiricum* was ...

*Polygonatum* polysaccharide has therapeutic effects on many diseases by adjusting cell signal pathways, *polygonatum sibiricum* have significant advantages in ...

Plants from *Polygonatum* have been used as food and medicine in China for more than 2,000 years and can be used as food during famine. *Polygonatum odoratum*, *P. ...*

Background and Aims *Polygonatum*, a classic source of food and traditional medicine, possess great potential and applicability in combating chronic and hidden hunger. ...

Several studies have highlighted that *Polygonatum* and its active ingredients, such as polysaccharides, flavonoids and saponins, have hypoglycemic and lipid-lowering ...

The inhibitory activity of excess amounts of NO, iNOS and TNF- $\alpha$  produced by LPS-stimulated macrophages would therefore be a good indicator of anti-inflammatory activity of extracts. ...

Deep eutectic solvent (DES) and hot-water extraction (HWE) methods were utilized to extract polysaccharides from *Polygonatum sibiricum*, referred to as DPsP and ...

*Polygonatum sibiricum* is a traditional Chinese medicinal herb and can also be used as tea and ornamental plant. During 2016 to 2018, a disease with symptoms similar to ...

Rhizome of *Polygonatum sibiricum* is both a renowned traditional Chinese remedy and a commonly consumed delicacy. Due to the escalating demand and excessive overexploitation, there has been a growing interest in ...

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Here we investigated the effects of solar arrays on plant composition, bloom timing and foraging behavior of pollinators from June to September (after peak bloom) in full ...

*Polygonatum sibiricum* ... is a perennial herbaceous plant belonging to the family Liliaceae. In Korea, these medicinal plants are ... concentrated by vaporization under reduced pressure at ...

*P. sibiricum* can be propagated from its rhizomes or seeds. Because of the low efficiency of rhizome propagation and the considerable time needed for rhizome growth (3-4years), seed ...

The main active component of *Polygonatum sibiricum* (*P. sibiricum*) rhizome is *Polygonatum sibiricum* Polysaccharide (PsP) with antioxidant function.

*Polygonatum sibiricum* under Cd stress; (2) analyze Cd and mineral element uptake and polysaccharide content changes in *Polygonatum sibiricum* under Cd stress; and (3) explore ...

*Polygonatum sibiricum* group [DJHC 600] is a broadleaf deciduous perennial with green foliage. In spring yellow flowers emerge. Grows well with mostly sun - shade and even moisture water. Does well in average and well-drained soil. A ...

In conclusion, the safe utilization of *Polygonatum sibiricum* can be guaranteed when the soil Cd concentration is under 1 mg/kg, and it has high application potential in soil ...

A high-performance liquid chromatography-fluorescence detection (HPLC-FLD) method was established for the determination of seven monosaccharides in *Polygonatum* ...

The observations made in this study recommend the manipulation of the soil microbial profile with certain microbes which enhance the adaptability and fitness of the host ...

Abstract. Traditional Chinese Medicine (TCM) has been widely used in China and is regarded as the most important therapeutic. *Polygonatum sibiricum* (PS), a natural plant used in traditional ...

*Polygonatum*, a versatile herb renowned for its multifaceted therapeutic properties and minimal adverse effects on human health, boasts a remarkable diversity, with ...

Among these plants, *Polygonatum sibiricum* and *Polygonatum odoratum* have been selected for inclusion in China's Medicinal Food Directory due to their high safety profile.

Plant material and growth conditions. The experiments were conducted with soil medium, and the *Polygonatum sibiricum* was grown in 35 cm × 35 cm × 20 cm wooden pots, ...

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*Polygonatum* are rhizomatous herbaceous perennials with erect or arching stems bearing glossy, elliptic leaves and pendent, tubular or bell-shaped flowers, sometimes followed by black or red ...

*Polygonatum sibiricum* is a traditional medicinal and dietary plant of the family Liliaceae. The main functional macromolecules of *P. sibiricum* are polysaccharides, which ...

Abstract. The rhizomes of *Polygonatum sibiricum* are commonly consumed as food and also used as medicine. However, the metabolic profile of *P. sibiricum* has not been fully revealed yet. ...

*Polygonatum sibiricum* Red., a kind of edible and medicinal plant, has a long history of use in traditional Chinese medicine and as a nutritional food additive. Water-soluble ...

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