

Are organic photovoltaics stretchable?

The realization of intrinsically stretchable organic photovoltaics with excellent mechanical robustness remains challenging. Here, the authors redistribute the strain in the active layer to PEDOT:PSS electrodes with simultaneously enhanced stretchability and interfacial adhesion in the device.

Do large-area flexible organic photovoltaic modules suffer from electrical shunt?

Large-area flexible organic photovoltaic modules suffer from electrical shunt and poor electrical contact between adjacent subcells, causing efficiency and stability losses. Here we improve the performance of large-area flexible organic photovoltaic modules through suppressing electrical shunt and improving electrical contact.

Can a tracking photovoltaic support system reduce wind-induced vibration?

Finite element analysis also showed a slight increase in natural frequencies with increasing inclination angle, which was in good agreement. This suggests that the design of the tracking photovoltaic support system can be optimized to reduce the impact of wind-induced vibration on the tracking photovoltaic support system.

How stiff is a tracking photovoltaic support system?

Because the support structure of the tracking photovoltaic support system has a long extension length and the components are D-shaped hollow steel pipes, the overall stiffness of the structure was found to be low, and the first three natural frequencies were between 2.934 and 4.921.

Does inclination increase the vibration frequency of a tracking photovoltaic support system?

What can be shown by the modal test results and finite element simulations of the tracking photovoltaic power generation bracket tracking photovoltaic support system was that the natural vibration frequency of the structure has a slight increase as the inclination angle increases.

Why is a photovoltaic support system prone to torsional vibrations?

Due to the lower natural frequencies and torsional stiffness, the system is susceptible to significant torsional vibrations induced by wind. Currently, most existing literature on tracking photovoltaic support systems mainly focuses on wind tunnel experiments and numerical simulations regarding wind pressure and pulsation characteristics.

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The primary purpose of our study was to assess the influence of modulating sensory input with either transcutaneous electrical nerve stimulation (TENS) or self-massage with therapy balls ...

As with any glass selection, support structure design is a key factor for limiting mechanical stresses to a safe level, thereby ensuring long term reliability of PV modules. View ...

The results show that: (1) according to the general requirements of 4 rows and 5 columns fixed photovoltaic support, the typical permanent load of the PV support is 4679.4 N, ...

The electrodeless biocompatible manipulation of femtoliter-scale aqueous microdroplets remains challenging. The appropriate isolation of electrostatic charges from femtoliter-scale aqueous ...

Pneumatic manipulators, lift assists, ergonomic manipulators, ... As those cylinders stretch or withdraw, the cables wrap and move vertically up and down the product. ... Dalmec Posivel - PV; Dalmec Posifil - PF; Contact Us. 1 300 ...

Findings This paper presents a new stretch-retractable continuum manipulator that the structure was composed of several springs as the backbone. Thus, the SRSS continuum manipulator ...

Intrinsically stretchable organic photovoltaics (is-OPVs) with high efficiency and transparency are a great challenge for wearable applications. Herein, we report a full-solution ...

The results show that: (1) according to the general requirements of 4 rows and 5 columns fixed photovoltaic support, the typical permanent load of the PV support is 4679.4 N, the wind load being 1 ...

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