

Which polymer modification boosts open-circuit voltage for perovskite solar cells?

Xiaomei Lian, Jiehuan Chen, Shiqi Shan, Gang Wu, Hongzheng Chen. Polymer Modification on the NiO_x Hole Transport Layer Boosts Open-Circuit Voltage to 1.19 V for Perovskite Solar Cells.

Do Y6 acceptors improve photovoltaic performance?

The emergence of Y6-type nonfullerene acceptors has greatly enhanced the power conversion efficiency (PCE) of organic solar cells (OSCs). However, which structural feature gifting the excellent photovoltaic performance is still under debate. In this work, two Y6-like acceptors BDOTP-1 and BDOTP-2 were designed.

Are thiophene cores suitable for perovskite solar cells?

The exploration of alternative low-cost molecular hole-transporting materials (HTMs) for both highly efficient and stable perovskite solar cells (PSCs) is a relatively new research area. Two novel HTMs using the thiophene core were designed and synthesized (Z25 and Z26).

What is a fixed adjustable photovoltaic support structure?

In order to respond to the national goal of "carbon neutralization" and make more rational and effective use of photovoltaic resources, combined with the actual photovoltaic substation project, a fixed adjustable photovoltaic support structure design is designed.

Is alkyl chain branching point a useful strategy for optoelectronic devices?

Manipulation of the alkyl chain branching point has emerged as an effective strategy to enhance the performance of conjugated polymers in optoelectronic devices.

Key words: photovoltaic bracket, numerical simulation, overall stability, fixed, failure mode. ??:
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Semantic Scholar extracted view of "Photovoltaic conversion and quantum efficiency in perovskite multiferroic ceramics" by C. Tu et al. Skip to search form Skip to main ..., author={Chi-Shun ...

5 ????#0183; ???: ???, ???, ???, ???, ??? Abstract: In order to study the mechanical properties of the fixed photovoltaic bracket and its failure under wind load, the full ...

Dr. C. Chen, Prof. Z. G. Yi. State Key Laboratory of High Performance Ceramics and Superfine Photovoltaic devices based on ferroelectric materials have broad application prospects; however ...

The omnidirectional photovoltaic tracking bracket system is a complete set of patented solar power generation products developed and designed by Weineng Smart Energy for the ...

An effective method is proposed in this paper for calculating the transient magnetic field and induced voltage in the photovoltaic bracket system under lightning stroke. Considering the need for the lightning current ...

The photovoltaic power generation is affected by many nonlinear variables so, it is very difficult to detect the faults. ... Wen Chen; Hui Yi; Incipient faults in electrical drives can corrupt ...

Chenyi Yi Professor (Associate) at Tsinghua University Perovskite solar cells and other optoelectronic devices Prof.Yi is currently an PI & associate professor of Department of ...

Jiangsu Guoqiang SingSun Energy Co., LTD. is located in Liyang City, Changzhou, Jiangsu Province, with more than 1,700 employees Guoqiang SingSun, as a service provider focusing ...

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