

Biography Yangyang Zhang received the B.S. and M.S. degrees in electronics and information engineering from Northeastern University, Shenyang, China, in 2002 and 2004, respectively, ...

Conventional solar cells have been devised based on the photovoltaic effect of semiconductor p-n junctions, with their photogenerated voltage being influenced by the ...

Abstract: In order to study the mechanical properties of the fixed photovoltaic bracket and its failure under wind load, the full-scale photovoltaic bracket specimen was ...

The protection of PV systems is an important issue to keep the continuity in service and protect PV panels against lightning occurrence to avoid damage of PV panels. To ...

Tao Zhang. State Key Laboratory of Polymer Physics and Chemistry, Beijing National Laboratory for Molecular Sciences, Institute of Chemistry, Chinese Academy of ...

A direct coupling hydrogen production system consisting of a photovoltaic (PV) cell and a proton exchange membrane (PEM) electrolyzer is established. The expression of the hydrogen ...

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Then, an actual PV bracket system is used as the numerical example. The lightning transient responses are calculated for typical locations of attachment points. ...

Semantic Scholar extracted view of "Optimal power reallocation of large-scale grid-connected photovoltaic power station integrated with hydrogen production" by Yang Yang ...

Organic photovoltaic (OPV) cells provide a direct and economical way to transform solar energy into electricity. Recently, OPV research has undergone a rapid growth, and the power ...

???: ???, ??, ?????, ??, ??, ??? Abstract: For the fixed photovoltaic brackets, finite element simulations were carried out by using the ...

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DOI: 10.1016/j.apenergy.2024.123759 Corpus ID: 270906260; Fast object detection of anomaly photovoltaic (PV) cells using deep neural networks @article{Zhang2024FastOD, title={Fast ...

The Solar photovoltaic bracket is designed to put a . special support, installation, fixed solar panel solar energy ... Zhang Lei, Jin Ye, et al. Design and research of solar energy ...

The devices we study include photovoltaic cells, digital memory units, light emitting diodes and thin film transistors. We are using various kinds of materials, including conjugate polymers, ...

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