

Yajun Zhao. Ph.D. No verified email. Visual Perception & Social Cognition. Articles Cited by Public access. Title. Sort. Sort by citations Sort by year Sort by title. Cited by. Cited by. Year; Brain grey matter abnormalities in medication-free patients with major depressive disorder: a ...

Zhao et al. [3] proposed a method with a small dataset for photovoltaic panel detection based on aerial drone data. Song et al. [4] presented a dataset for photovoltaic land detection in RS scenes ...

This paper reviews the dust deposition mechanism on photovoltaic modules, classifies the very recent dust removal methods with a critical review, especially focusing on the mechanisms of super ...

RAJA is one of leading energy solution service provider in China, offering a wide range of battery energy storage systems and services for Electric Truck, EV Batteries, RV batteries, Residential Energy Storage Batteries, Telecom Base ...

based on YOLOv7-GX for PV panel defect detection is proposed for the problem of multi-fault identification of PV panel images. First, a detection layer dedicated to detecting tiny targets is designed,

Modeling, simulation and analysis of solar photovoltaic (PV) generator is a vital phase prior to mount PV system at any location, which helps to understand the behavior and characteristics in real ...

Recently, lead halide perovskite solar cells have become a promising next-generation photovoltaics candidate for large-scale application to realize low-cost renewable electricity generation. Although perovskite solar cells have tremendous advantages such as high photovoltaic performance, low cost and facile solution-based fabrication, the issues involving ...

A PV module is a pre-assembled group of solar cells and can be considered the smallest unit of a photovoltaic system, while a PV panel includes a group of several PV modules interconnected in series or parallel to provide higher power, thereby ideal for residential and industrial applications. The choice between the two depends on power need, free installation ...

PV technology is expected to play a crucial role in shifting the economy from fossil fuels to a renewable energy model (T. K&#229;berger, 2018). Among PV panel types, crystalline silicon-based panels currently dominate the global PV landscape, recognized for their reliability and substantial investment returns (S. Preet, 2021). Researchers have developed alternative ...

The Maximum Power Point Tracking (MPPT) inverters allow us to maximize the extraction of as much energy as possible from PV panels, and they require algorithms to extract the Maximum Power Point ...

Yajun Zhao was born in Zhenjiang, Jiangsu, China, in 1990. He received the B.S. and master's degrees in electrical engineering from the Nanjing University of Aeronautics and Astronautics, ...

Photovoltaic panel integrated with phase change materials (PV-PCM): technology overview and materials selection. T Ma, Z Li, J Zhao ... Z Li, T Ma, J Zhao, A Song, Y Cheng. Energy 178, 471-486, 2019. 174: 2019: Mathematical modelling and sensitivity analysis of solar photovoltaic panel integrated with phase change material.

Contributors: Yajun Zhao; Wenxin Huang; Feifei Bu Show more detail. Source: check\_circle. Crossref grade . Preferred source (of 2)? An Efficient Model Predictive Torque ...

**ABSTRACT** Performance monitoring of individual PV modules in utility-scale solar farms can be a difficult undertaking due to the issue of scale. Since most PV systems are placed in-line and series connected, panel-specific granularity is costly and most systems monitor performance up to the inverter level.

The conversion efficiency of photovoltaic (PV) panels is reduced while the PV temperature rises. It is revealed that that every Celsius degree rise in PV temperature can result in as large as a 0. ...

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Yajun Zhao's 37 research works with 1,006 citations and 14,642 reads, including: Psychometric testing of the 10-item perceived stress scale for Chinese nurses

An improved DeepLabv3+ semantic segmentation network to more accurately extract PV panels from high-resolution remote sensing images is proposed and a multi-level ...

Yajun Leng's 8 research works with 203 citations and 349 reads, including: Optimal household energy management based on smart residential energy hub considering uncertain behaviors

Yajun Zhao. Beijing University of Chemical Technology. ... Y Zhao, S Zhang, Y Zhang, J Liang, L Ren, HJ Fan, W Liu, X Sun. Energy & Environmental Science 17 (3), 1279-1290, 2024. 49: ...

A large-scale and efficient PV potential estimation system applicable to rural rooftops in China is proposed and an improved SegNeXt deep learning network is proposed to extract roof images ...

The performance of PV panels is affected by several environmental variables, causing different faults that reduce the energy production of PV panels. 16 These faults are given by electrical mismatches, degradation, and other causes, for example, cell or module broken, hot spots browning, dirty points, burned, snail trails,

cracked cells, solder bond failures, broken ...

In Japan, solar panel waste recycling is under the control of the Japanese environment ministry and solar panel manufacturers participate with local companies in research on recycling technology that relates to recycling technology in Europe [13]. Moreover, the European PV organization and Shell Oil Company (Japan) have entered into an association.

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With the rapid progress of science and technology, energy has become the main concern of countries around the world today. Countries are striving to find alternative bioenergy, and solar energy has attracted worldwide attention due to its renewable and pollution-free characteristics [].The photovoltaic industry that came into being based on solar energy has ...

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