

The 4 square wire artifact - a manufacturing quirk causing visible wiring patterns - has become a hot topic in renewable energy circles since early 2025. But what exactly causes this phenomenon, and ...

This paper presents a numerical model regarding the passive cooling of PV panels through perforated and non-perforated heat sinks. A typical PV panel was studied in a fixed position, tilted at 45 degrees ...

Previous pages discussed how AIT's technologies can enhance tabbing and solar panel lamination. This page discusses how select application of AIT's protective coatings and sealant-adhesives increase ...

To objectively assess the effectiveness of our proposed method for photovoltaic panel defect detection, we conducted both quantitative and qualitative comparisons against established ...

The easy-to-clean coating is used by solar panel cleaning businesses and manufactures around the world to help prevent stains and corrosion. The coating comes with a lifetime on residential solar ...

This validates our success in developing a photothermal, transparent, and superhydrophobic coating with excellent anti-icing capabilities, suitable for use on photovoltaic ...

Our new solar panel coating is invisible and lasts for many years. Element 119 is the best choice when you're looking for preservation and boosting the energy efficiency of solar panels.

One of the solutions to the problem of PV soiling is to develop anti-soil coatings, where hydrophilic or hydrophobic coatings with spectral characteristics suitable for PV applications are added to the outer ...

Therefore, developing cost-effective coatings that possess both high transparency and excellent durability is paramount. A novel method for synthesizing an anti-reflective (AR) coating is ...

New York architect Marco Silvestri transformed a client's anxiety about energy bills into a functional art piece - a photovoltaic wall sculpture that visualizes consumption patterns through colored LEDs.

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